QEverCloud

6.2.0

Generated by Doxygen 1.8.13

Contents

Chapter 1

QEverCloud

Unofficial Evernote Cloud API for Qt

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 can also be generated in the form of a .qch file which you can register with your copy of Qt Creator to have context-sensitive help. See below for more details.

How to contribute

See contribution guide for detailed info.

Downloads

Prebuilt versions of the library can be downloaded from the following locations:

- Stable version:
  - Windows binaries:
    - MSVC 2019 32 bit Qt 5.15.2
    - MSVC 2019 64 bit Qt 5.15.2
  - Mac binary (built with Qt 5.15.2)
  - Linux binary built on Ubuntu 20.04 with Qt 5.12.8
- Unstable version:
  - Windows binaries:
    - MSVC 2019 32 bit Qt 5.15.2
    - MSVC 2019 64 bit Qt 5.15.2
  - Mac binary (built with Qt 5.15.2)
  - Linux binary built on Ubuntu 20.04 with Qt 5.12.8

How to build

QEverCloud uses CMake build system which can be used as simply as follows (on Unix platforms):

```
mkdir build
cd build
cmake -DCMAKE_INSTALL_PREFIX=<...> ../
make
make install
```

The library can be built and shipped either as a static library or a shared library. Dll export/import symbols necessary for Windows platform are supported.

QEverCloud uses C++14 standard. CMake automatically checks whether the compiler is capable enough of building QEverCloud so if the pre-build configuration step was successful, the build step should be successful as well. Known capable compilers are g++ 9 or later and Visual Studio 2019 or later.

The recommended version of Qt5 for building the library is the latest Qt 5.15. However, it is also known to build and work with Qt 5.12.

QEverCloud depends on the following Qt components:

- Qt5Core
- Qt5Widgets
- Qt5Network
- (Optional) Qt5WebKit an Qt5WebKitWidgets
- (Optional) Qt5WebEngine and Qt5WebEngineWidgets

The dependencies on Qt5WebKit or Qt5WebEngine are only actual if the library is built with OAuth support. But even then there is an option to build the library with OAuth support but without the dependency on either of these components. More on this below.

By default the library is built with OAuth support and uses Qt5WebEngine for it. The following cmake parameters are available to alter this behaviour:

- `-DBUILD_WITH_OAUTH_SUPPORT=NO` would disable building with OAuth support entirely.
- `-DUSE_QT5_WEBKIT=ON` would build the library with OAuth using Qt5WebKit for web page rendering.
- `-DQEVERCLOUD_USE_SYSTEM_BROWSER=ON` would build the library with OAuth not using either Qt5WebKit or Qt5WebEngine but instead delegating some portion of OAuth procedure to the system browser.

If Qt5's Qt5Test module is found during the pre-build configuration step, the unit tests are enabled and can be run with `make test` and more verbose `make check` commands.

Other available CMake configurations options:

BUILD_DOCUMENTATION - when *ON*, attempts to find Doxygen and in case of success adds *doc* target so the documentation can be built using `make doc` command after the pre-build configuration step. By default this option is on.

BUILD_QCH_DOCUMENTATION - when *ON*, passes instructions on to Doxygen to build the documentation in *qch* format. This option only has any meaning if *BUILD_DOCUMENTATION* option is on. By default this option is off.

BUILD_SHARED - when *ON*, CMake configures the build for the shared library. By default this option is on.

BUILD_WITH_Q_NAMESPACE - when *ON*, `Q_NAMESPACE` and `Q_ENUM_NS` macros are used to add introspection capabilities to enumerations within `qevercloud` namespace. Qt >= 5.8 is required to enable this option. By default this option is enabled.

BUILD_TRANSLATIONS - when *ON*, builds and installs translation files for translatable strings from QEverCloud.

If *BUILD_SHARED* is *ON*, `make install` installs CMake module necessary for applications using CMake's `find_package` command to find the installation of QEverCloud.

It is possible to build the library with enabled sanitizers using additional CMake options:

- `-DSANITIZE_ADDRESS=ON` to enable address sanitizer
- `-DSANITIZE_MEMORY=ON` to enable memory sanitizer
- `-DSANITIZE_THREAD=ON` to enable thread sanitizer
- `-DSANITIZE_UNDEFINED=ON` to enable undefined behaviour sanitizer

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 can also be used if needed.

Seeding random numbers generator for Qt < 5.10

QEverCloud requires random numbers generator for OAuth procedure. When QEverCloud is built against Qt >= 5.10, it uses `QRandomGenerator` which is cryptographically secure on supported platforms and is seeded by Qt internals. With Qt < 5.10 QEverCloud uses `qrand`. It requires the client application to call `qsrand` with seed value before using OAuth calls of QEverCloud. So if you are using QEverCloud built with Qt < 5.10, make sure to call `qsrand` before using QEverCloud's OAuth.

Related projects

- `QEverCloudGenerator` repository hosts code generating parser of `Evernote Thrift IDL files`. This parser is used to autogenerate a portion of QEverCloud's headers and sources.
- `libquentier` is a library for creating feature rich full sync Evernote clients built on top of QEverCloud
- `Quentier` is an open source desktop note taking app capable of working as Evernote client built on top of libquentier and QEverCloud

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

Chapter 4

Class Index

4.1 Class List

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

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

Chapter 6

Namespace Documentation

6.1 qevercloud Namespace Reference

Classes

- struct Accounting
- struct AccountLimits
- class AsyncResult

  Returned by asynchonous versions of functions.
- struct AuthenticationResult
- struct BootstrapInfo
- struct BootstrapProfile
- struct BootstrapSettings
- struct BusinessInvitation
- struct BusinessNotebook
- struct BusinessUserAttributes
- struct BusinessUserInfo
- struct CanMoveToContainerRestrictions
- struct Contact
- struct CreateOrUpdateNotebookSharesResult
- struct Data
- class EDAMInvalidContactsException
- class EDAMInvalidContactsExceptionData
- 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 EverCloudLocalData

The EverCloudLocalData class contains several data elements which are not synchronized with Evernote service but which are nevertheless useful in applications using QEverCloud to implement feature rich full sync Evernote clients. Values of this class' types are contained within QEverCloud types corresponding to actual Evernote API types.

- 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 Identity
- class IDurableService
- class ILogger
- class InkNoteImageDownloader

  the InkNoteImageDownloader class is for downloading the images of ink notes which can be created with the official Evernote client on Windows (only with it, at least at the time of this writing).
- class INoteStore
- struct InvitationShareRelationship
- class IRequestContext
- struct IRetryPolicy
- class IUserStore
- struct LazyMap
- struct LinkedNotebook
- struct ManageNotebookSharesError
- struct ManageNotebookSharesParameters
- struct ManageNotebookSharesResult
- struct ManageNoteSharesError
- struct ManageNoteSharesParameters
- struct ManageNoteSharesResult
- struct MemberShareRelationship
- class NetworkException

  The NetworkException class represents QNetworkReply level errors.
- class NetworkExceptionData
- struct Note
- struct NoteAttributes
- struct Notebook
- struct NotebookDescriptor
- struct NotebookRecipientSettings
- struct NotebookRestrictions
- struct NotebookShareTemplate
- struct NoteCollectionCounts
- struct NoteEmailParameters
- struct NoteFilter
- struct NoteInvitationShareRelationship
- struct NoteLimits
- struct NoteList
- struct NoteMemberShareRelationship
- struct NoteMetadata
- struct NoteRestrictions
- struct NoteResultSpec
- struct NoteShareRelationshipRestrictions
- struct NoteShareRelationships
- struct NotesMetadataList
- struct NotesMetadataResultSpec
- class NoteStoreServer

The NoteStoreServer class represents customizable server for NoteStore requests. It is primarily used for testing of QEverCloud.

- struct NoteVersionId
- class Optional
- class Printable
- struct PublicUserInfo
- struct Publishing
- class QAssociativeContainerConstReferenceWrapper
- class QAssociativeContainerReferenceWrapper
- struct RelatedContent
- struct RelatedContentImage
- struct RelatedQuery
- struct RelatedResult
- struct RelatedResultSpec
- struct Resource
- struct ResourceAttributes
- struct SavedSearch
- struct SavedSearchScope
- struct SharedNote
- struct SharedNotebook
- struct SharedNotebookRecipientSettings
- struct SharedNoteTemplate
- struct ShareRelationshipRestrictions
- struct ShareRelationships
- 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 UpdateNoteIfUsnMatchesResult
- struct User
- struct UserAttributes
- struct UserIdentity
- struct UserProfile
- class UserStoreServer

  The UserStoreServer class represents customizable server for UserStore requests. It is primarily used for testing of QEverCloud.
- struct UserUrls

Typedefs

- using IRetryPolicyPtr = std::shared_ptr< IRetryPolicy >
- using IDurableServicePtr = std::shared_ptr< IDurableService >
- using EverCloudExceptionDataPtr = std::shared_ptr< EverCloudExceptionData >
- using INoteStorePtr = std::shared_ptr< INoteStore >
- using IUserStorePtr = std::shared_ptr< IUserStore >
- using InvalidationSequenceNumber = qint64
- using IdentityID = qint64
- using UserID = qint32
- using Guid = QString
- using Timestamp = qint64
- using MessageEventID = qint64
- using MessageThreadID = qint64
- using ILoggerPtr = std::shared_ptr< ILogger >
- using IRequestContextPtr = std::shared_ptr< IRequestContext >

Enumerations

- enum EDAMErrorCode {
  EDAMErrorCode::UNKNOWN = 1, EDAMErrorCode::BAD_DATA_FORMAT = 2, EDAMErrorCode::PERM↩
  ISSION_DENIED = 3, EDAMErrorCode::INTERNAL_ERROR = 4,
  EDAMErrorCode::DATA_REQUIRED = 5, EDAMErrorCode::LIMIT_REACHED = 6, EDAMErrorCode::QU↩
  OTA_REACHED = 7, EDAMErrorCode::INVALID_AUTH = 8,
  EDAMErrorCode::AUTH_EXPIRED = 9, EDAMErrorCode::DATA_CONFLICT = 10, EDAMErrorCode::EN↩
  ML_VALIDATION = 11, EDAMErrorCode::SHARD_UNAVAILABLE = 12,
  EDAMErrorCode::LEN_TOO_SHORT = 13, EDAMErrorCode::LEN_TOO_LONG = 14, EDAMErrorCode::↩
  TOO_FEW = 15, EDAMErrorCode::TOO_MANY = 16,
  EDAMErrorCode::UNSUPPORTED_OPERATION = 17, EDAMErrorCode::TAKEN_DOWN = 18, EDAM↩
  ErrorCode::RATE_LIMIT_REACHED = 19, EDAMErrorCode::BUSINESS_SECURITY_LOGIN_REQUIRED
  = 20,
  EDAMErrorCode::DEVICE_LIMIT_REACHED = 21, EDAMErrorCode::OPENID_ALREADY_TAKEN = 22,
  EDAMErrorCode::INVALID_OPENID_TOKEN = 23, EDAMErrorCode::USER_NOT_ASSOCIATED = 24,
  EDAMErrorCode::USER_NOT_REGISTERED = 25, EDAMErrorCode::USER_ALREADY_ASSOCIATED =
  26, EDAMErrorCode::ACCOUNT_CLEAR = 27, EDAMErrorCode::SSO_AUTHENTICATION_REQUIRED =
  28 }
- enum EDAMInvalidContactReason { EDAMInvalidContactReason::BAD_ADDRESS, EDAMInvalidContact↩
  Reason::DUPLICATE_CONTACT, EDAMInvalidContactReason::NO_CONNECTION }
- enum ShareRelationshipPrivilegeLevel { ShareRelationshipPrivilegeLevel::READ_NOTEBOOK = 0, Share↩
  RelationshipPrivilegeLevel::READ_NOTEBOOK_PLUS_ACTIVITY = 10, ShareRelationshipPrivilegeLevel↩
  ::MODIFY_NOTEBOOK_PLUS_ACTIVITY = 20, ShareRelationshipPrivilegeLevel::FULL_ACCESS = 30 }
- enum PrivilegeLevel {
  PrivilegeLevel::NORMAL = 1, PrivilegeLevel::PREMIUM = 3, PrivilegeLevel::VIP = 5, PrivilegeLevel::MAN↩
  AGER = 7,
  PrivilegeLevel::SUPPORT = 8, PrivilegeLevel::ADMIN = 9 }
- enum ServiceLevel { ServiceLevel::BASIC = 1, ServiceLevel::PLUS = 2, ServiceLevel::PREMIUM = 3,
  ServiceLevel::BUSINESS = 4 }
- enum QueryFormat { QueryFormat::USER = 1, QueryFormat::SEXP = 2 }
- enum NoteSortOrder {
  NoteSortOrder::CREATED = 1, NoteSortOrder::UPDATED = 2, NoteSortOrder::RELEVANCE = 3, Note↩
  SortOrder::UPDATE_SEQUENCE_NUMBER = 4,
  NoteSortOrder::TITLE = 5 }
- enum PremiumOrderStatus {
  PremiumOrderStatus::NONE = 0, PremiumOrderStatus::PENDING = 1, PremiumOrderStatus::ACTIVE = 2,
  PremiumOrderStatus::FAILED = 3,
  PremiumOrderStatus::CANCELLATION_PENDING = 4, PremiumOrderStatus::CANCELED = 5 }
- enum SharedNotebookPrivilegeLevel {
  SharedNotebookPrivilegeLevel::READ_NOTEBOOK = 0, SharedNotebookPrivilegeLevel::MODIFY_NOT↩
  EBOOK_PLUS_ACTIVITY = 1, SharedNotebookPrivilegeLevel::READ_NOTEBOOK_PLUS_ACTIVITY = 2,
  SharedNotebookPrivilegeLevel::GROUP = 3,
  SharedNotebookPrivilegeLevel::FULL_ACCESS = 4, SharedNotebookPrivilegeLevel::BUSINESS_FULL_↩
  ACCESS = 5 }
- enum SharedNotePrivilegeLevel { SharedNotePrivilegeLevel::READ_NOTE = 0, SharedNotePrivilegeLevel↩
  ::MODIFY_NOTE = 1, SharedNotePrivilegeLevel::FULL_ACCESS = 2 }
- enum SponsoredGroupRole { SponsoredGroupRole::GROUP_MEMBER = 1, SponsoredGroupRole::GRO↩
  UP_ADMIN = 2, SponsoredGroupRole::GROUP_OWNER = 3 }
- enum BusinessUserRole { BusinessUserRole::ADMIN = 1, BusinessUserRole::NORMAL = 2 }
- enum BusinessUserStatus { BusinessUserStatus::ACTIVE = 1, BusinessUserStatus::DEACTIVATED = 2 }
- enum SharedNotebookInstanceRestrictions { SharedNotebookInstanceRestrictions::ASSIGNED = 1,
  SharedNotebookInstanceRestrictions::NO_SHARED_NOTEBOOKS = 2 }
- enum ReminderEmailConfig { ReminderEmailConfig::DO_NOT_SEND = 1, ReminderEmailConfig::SEND↩
  _DAILY_EMAIL = 2 }
- enum BusinessInvitationStatus { BusinessInvitationStatus::APPROVED = 0, BusinessInvitationStatus::RE↩
  QUESTED = 1, BusinessInvitationStatus::REDEEMED = 2 }

- enum ContactType {
  ContactType::EVERNOTE = 1, ContactType::SMS = 2, ContactType::FACEBOOK = 3, ContactType::EMAIL = 4,
  ContactType::TWITTER = 5, ContactType::LINKEDIN = 6 }
- enum EntityType { EntityType::NOTE = 1, EntityType::NOTEBOOK = 2, EntityType::WORKSPACE = 3 }
- enum RecipientStatus { RecipientStatus::NOT_IN_MY_LIST = 1, RecipientStatus::IN_MY_LIST = 2, RecipientStatus::IN_MY_LIST_AND_DEFAULT_NOTEBOOK = 3 }
- enum CanMoveToContainerStatus { CanMoveToContainerStatus::CAN_BE_MOVED = 1, CanMoveToContainerStatus::INSUFFICIENT_ENTITY_PRIVILEGE = 2, CanMoveToContainerStatus::INSUFFICIENT_CONTAINER_PRIVILEGE = 3 }
- enum RelatedContentType { RelatedContentType::NEWS_ARTICLE = 1, RelatedContentType::PROFILE_PERSON = 2, RelatedContentType::PROFILE_ORGANIZATION = 3, RelatedContentType::REFERENCE_MATERIAL = 4 }
- enum RelatedContentAccess { RelatedContentAccess::NOT_ACCESSIBLE = 0, RelatedContentAccess::DIRECT_LINK_ACCESS_OK = 1, RelatedContentAccess::DIRECT_LINK_LOGIN_REQUIRED = 2, RelatedContentAccess::DIRECT_LINK_EMBEDDED_VIEW = 3 }
- enum UserIdentityType { UserIdentityType::EVERNOTE_USERID = 1, UserIdentityType::EMAIL = 2, UserIdentityType::IDENTITYID = 3 }
- enum LogLevel {
  LogLevel::Trace = 0, LogLevel::Debug, LogLevel::Info, LogLevel::Warn,
  LogLevel::Error }

Functions

- QEVERCLOUD_EXPORT IRetryPolicyPtr newRetryPolicy ()
- QEVERCLOUD_EXPORT IRetryPolicyPtr nullRetryPolicy ()
- QEVERCLOUD_EXPORT IDurableServicePtr newDurableService (IRetryPolicyPtr={}, IRequestContextPtr={})
- uint qHash (EDAMErrorCode value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const EDAMErrorCode value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const EDAMErrorCode value)
- uint qHash (EDAMInvalidContactReason value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const EDAMInvalidContactReason value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const EDAMInvalidContactReason value)
- uint qHash (ShareRelationshipPrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const ShareRelationshipPrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const ShareRelationshipPrivilegeLevel value)
- uint qHash (PrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const PrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const PrivilegeLevel value)
- uint qHash (ServiceLevel value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const ServiceLevel value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const ServiceLevel value)
- uint qHash (QueryFormat value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const QueryFormat value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const QueryFormat value)
- uint qHash (NoteSortOrder value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const NoteSortOrder value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const NoteSortOrder value)
- uint qHash (PremiumOrderStatus value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const PremiumOrderStatus value)

- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const PremiumOrderStatus value)
- uint qHash (SharedNotebookPrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const SharedNotebook↩PrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const SharedNotebookPrivilegeLevel value)
- uint qHash (SharedNotePrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const SharedNotePrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const SharedNotePrivilegeLevel value)
- uint qHash (SponsoredGroupRole value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const SponsoredGroupRole value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const SponsoredGroupRole value)
- uint qHash (BusinessUserRole value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const BusinessUserRole value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const BusinessUserRole value)
- uint qHash (BusinessUserStatus value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const BusinessUserStatus value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const BusinessUserStatus value)
- uint qHash (SharedNotebookInstanceRestrictions value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const SharedNotebook↩InstanceRestrictions value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const SharedNotebookInstance↩Restrictions value)
- uint qHash (ReminderEmailConfig value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const ReminderEmailConfig value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const ReminderEmailConfig value)
- uint qHash (BusinessInvitationStatus value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const BusinessInvitationStatus value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const BusinessInvitationStatus value)
- uint qHash (ContactType value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const ContactType value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const ContactType value)
- uint qHash (EntityType value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const EntityType value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const EntityType value)
- uint qHash (RecipientStatus value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const RecipientStatus value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const RecipientStatus value)
- uint qHash (CanMoveToContainerStatus value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const CanMoveToContainer↩Status value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const CanMoveToContainerStatus value)
- uint qHash (RelatedContentType value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const RelatedContentType value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const RelatedContentType value)
- uint qHash (RelatedContentAccess value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const RelatedContentAccess value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const RelatedContentAccess value)

- uint qHash (UserIdentityType value)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const UserIdentityType value)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const UserIdentityType value)
- QEVERCLOUD_EXPORT INoteStore * newNoteStore (QString noteStoreUrl={}, IRequestContextPtr ctx={}, QObject *parent=nullptr, IRetryPolicyPtr retryPolicy={})
- QEVERCLOUD_EXPORT IUserStore * newUserStore (QString userStoreUrl={}, IRequestContextPtr ctx={}, QObject *parent=nullptr, IRetryPolicyPtr retryPolicy={})
- QEVERCLOUD_EXPORT QNetworkProxy evernoteNetworkProxy ()
- QEVERCLOUD_EXPORT void setEvernoteNetworkProxy (QNetworkProxy proxy)
- QEVERCLOUD_EXPORT void resetEvernoteNetworkProxy ()
- QEVERCLOUD_EXPORT int libraryVersion ()
- QEVERCLOUD_EXPORT void initializeQEverCloud ()
- template<class Container >
  QAssociativeContainerReferenceWrapper< Container > toRange (Container &container)
- template<class Container >
  QAssociativeContainerConstReferenceWrapper< Container > toRange (const Container &container)
- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &out, const LogLevel level)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &out, const LogLevel level)
- QEVERCLOUD_EXPORT ILoggerPtr logger ()
- QEVERCLOUD_EXPORT void setLogger (ILoggerPtr logger)
- QEVERCLOUD_EXPORT ILoggerPtr nullLogger ()
- QEVERCLOUD_EXPORT ILoggerPtr newStdErrLogger (LogLevel level=LogLevel::Warn)
- void setNonceGenerator (quint64(*nonceGenerator)())

  Sets the function to use for nonce generation for OAuth authentication.
- QEVERCLOUD_EXPORT IRequestContextPtr newRequestContext (QString authenticationToken={}, qint64 requestTimeout=DEFAULT_REQUEST_TIMEOUT_MSEC, bool increaseRequestTimeoutExponentially=DEFAULT_REQUEST_TIMEOUT_EXPONENTIAL_INCREASE, qint64 maxRequestTimeout=DEFAULT_MAX_REQUEST_TIMEOUT_MSEC, quint32 maxRequestRetryCount=DEFAULT_MAX_REQUEST_RETRY_COUNT, QList< QNetworkCookie > cookies={})

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_TIFF
- QEVERCLOUD_EXPORT const QString EDAM_MIME_TYPE_BMP
- 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 QSet< QString > EDAM_INDEXABLE_PLAINTEXT_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_WORKSPACE_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 EDAM_WORKSPACE_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_WORKSPACE_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_WORKSPACE_NAME_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 QString EDAM_BUSINESS_MARKETING_CODE_REGEX_PATTERN
- 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_USER_WORKSPACES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_BUSINESS_WORKSPACES_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_FIRST_MONTH
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_BUSINESS_NEXT_MONTH
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_PLUS
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_SURVEY_THRESHOLD
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_BUSINESS
- QEVERCLOUD_EXPORT const qint64 EDAM_USER_UPLOAD_LIMIT_BUSINESS_PER_USER
- 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_BUSINESS_SHARED_NOTEBOOK_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTEBOOK_PERSONAL_SHARED_NOTEBOOK_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_BUSINESS_SHARED_NOTE_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_PERSONAL_SHARED_NOTE_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 QString EDAM_SOURCE_APPLICATION_POSTIT
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_MOLESKINE
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_EN_SCANSNAP
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_EWC
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_ANDROID_SHARE_EXTENS↩ ION
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_IOS_SHARE_EXTENSION
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_APPLICATION_WEB_CLIPPER
- QEVERCLOUD_EXPORT const QString EDAM_SOURCE_OUTLOOK_CLIPPER
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_QUALITY_UNTITLED
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_QUALITY_LOW
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_QUALITY_MEDIUM
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_TITLE_QUALITY_HIGH
- 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_RELATED_MAX_EXPERTS
- QEVERCLOUD_EXPORT const qint32 EDAM_RELATED_MAX_RELATED_CONTENT
- 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 qint32 EDAM_PREFERENCE_ONLY_ONE_VALUE_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_NAME_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_VALUE_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_ONLY_ONE_VALUE_REGEX
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_SHORTCUTS
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_BUSINESS_DEFAULT_NOTEBOOK
- QEVERCLOUD_EXPORT const QString EDAM_PREFERENCE_BUSINESS_QUICKNOTE
- 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 qint32 EDAM_FIND_CONTACT_DEFAULT_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 EDAM_FIND_CONTACT_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 EDAM_NOTE_LOCK_VIEWERS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_GET_ORDERS_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 EDAM_MESSAGE_BODY_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_MESSAGE_BODY_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_MESSAGE_RECIPIENTS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_MESSAGE_ATTACHMENTS_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_MESSAGE_ATTACHMENT_TITLE_LEN_MAX

- QEVERCLOUD_EXPORT const QString EDAM_MESSAGE_ATTACHMENT_TITLE_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_MESSAGE_ATTACHMENT_SNIPPET_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_MESSAGE_ATTACHMENT_SNIPPET_REGEX
- QEVERCLOUD_EXPORT const qint32 EDAM_USER_PROFILE_PHOTO_MAX_BYTES
- QEVERCLOUD_EXPORT const qint32 EDAM_PROMOTION_ID_LEN_MAX
- QEVERCLOUD_EXPORT const QString EDAM_PROMOTION_ID_REGEX
- QEVERCLOUD_EXPORT const qint16 EDAM_APP_RATING_MIN
- QEVERCLOUD_EXPORT const qint16 EDAM_APP_RATING_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_SNIPPETS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_CONNECTED_IDENTITY_REQUEST_MAX
- QEVERCLOUD_EXPORT const qint32 EDAM_OPEN_ID_ACCESS_TOKEN_MAX
- 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_WEB_CLIP_SIMPLIFIED
- 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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6.1.2 Typedef Documentation

6.1.2.1 EverCloudExceptionDataPtr

```
using qevercloud::EverCloudExceptionDataPtr = typedef std::shared_ptr<EverCloudExceptionData>
```

6.1.2.2 Guid

```
using qevercloud::Guid = typedef QString
```

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.

6.1.2.3 IdentityID

```
using qevercloud::IdentityID = typedef qint64
```

A type alias for the primary identifiers for Identity objects.

6.1.2.4 IDurableServicePtr

```
using qevercloud::IDurableServicePtr = typedef std::shared_ptr<IDurableService>
```

6.1.2.5 ILoggerPtr

```
using qevercloud::ILoggerPtr = typedef std::shared_ptr<ILogger>
```

6.1.2.6 INoteStorePtr

```
using qevercloud::INoteStorePtr = typedef std::shared_ptr<INoteStore>
```

6.1.2.7 InvalidationSequenceNumber

```
using qevercloud::InvalidationSequenceNumber = typedef qint64
```

A monotonically incrementing number on each shard that identifies a cross shard cache invalidation event.

6.1.2.8 IRequestContextPtr

```
using qevercloud::IRequestContextPtr = typedef std::shared_ptr<IRequestContext>
```

6.1.2.9 IRetryPolicyPtr

```
using qevercloud::IRetryPolicyPtr = typedef std::shared_ptr<IRetryPolicy>
```

6.1.2.10 IUserStorePtr

```
using qevercloud::IUserStorePtr = typedef std::shared_ptr<IUserStore>
```

6.1.2.11 MessageEventID

```
using qevercloud::MessageEventID = typedef qint64
```

A sequence number for the MessageStore subsystem.

6.1.2.12 MessageThreadID

```
using qevercloud::MessageThreadID = typedef qint64
```

A type alias for the primary identifiers for MessageThread objects.

6.1.2.13 Timestamp

```
using qevercloud::Timestamp = typedef qint64
```

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

6.1.2.14 UserID

```
using qevercloud::UserID = typedef qint32
```

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 Enumeration Type Documentation

6.1.3.1 BusinessInvitationStatus

```
enum qevercloud::BusinessInvitationStatus  [strong]
```

An enumeration defining the possible states of a BusinessInvitation.

APPROVED: The invitation was created or approved by a business admin and may be redeemed by the invited email.

REQUESTED: The invitation was requested by a non-admin member of the business and must be approved by an admin before it may be redeemed. Invitations in this state do not count against a business' seat limit.

REDEEMED: The invitation has already been redeemed. Invitations in this state do not count against a business' seat limit.

Enumerator

APPROVED	
REQUESTED	
REDEEMED	

6.1.3.2 BusinessUserRole

```
enum qevercloud::BusinessUserRole  [strong]
```

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.

Enumerator

ADMIN	
NORMAL	

6.1.3.3 BusinessUserStatus

`enum qevercloud::BusinessUserStatus [strong]`

The BusinessUserStatus indicates the status of the user in the business.

A BusinessUser will typically start as ACTIVE. Only ACTIVE users can authenticate to the Business.

ACTIVE

The business user can authenticate to and access the business.

DEACTIVATED

The business user has been deactivated and cannot access the business

Enumerator

ACTIVE	
DEACTIVATED	

6.1.3.4 CanMoveToContainerStatus

`enum qevercloud::CanMoveToContainerStatus [strong]`

This enumeration defines the possible types of canMoveToContainer outcomes.

An outdated client is expected to signal a "Cannot Move, Please Upgrade To Learn Why" like response to the user if an unknown enumeration value is received.

CAN_BE_MOVED Can move Notebook to Workspace.

INSUFFICIENT_ENTITY_PRIVILEGE Can not move Notebook to Workspace, because either: a) Notebook not in Workspace and insufficient privilege on Notebook or b) Notebook in Workspace and membership on Workspace with insufficient privilege for move

INSUFFICIENT_CONTAINER_PRIVILEGE Notebook in Workspace and no membership on Workspace.

Enumerator

CAN_BE_MOVED	
INSUFFICIENT_ENTITY_PRIVILEGE	
INSUFFICIENT_CONTAINER_PRIVILEGE	

6.1.3.5 ContactType

```
enum qevercloud::ContactType  [strong]
```

What kinds of Contacts does the Evernote service know about?

Enumerator

EVERNOTE	
SMS	
FACEBOOK	
EMAIL	
TWITTER	
LINKEDIN	

6.1.3.6 EDAMErrorCode

```
enum qevercloud::EDAMErrorCode  [strong]
```

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.

BUSINESS_SECURITY_LOGIN_REQUIRED Access to a business account has been denied because the user must complete additional steps in order to comply with business security requirements.

DEVICE_LIMIT_REACHED Operation denied because the user has exceeded their maximum allowed number of devices.

OPENID_ALREADY_TAKEN Operation failed because the Open ID is already associated with another user.

INVALID_OPENID_TOKEN Operation denied because the Open ID token is invalid. Please re-issue a valid token.

USER_NOT_REGISTERED There is no Evernote user associated with this OpenID account, and no Evernote user with a matching email

USER_NOT_ASSOCIATED There is no Evernote user associated with this OpenID account, but Evernote user with matching email exists

USER_ALREADY_ASSOCIATED Evernote user is already associated with this provider using a different email address.

ACCOUNT_CLEAR The user's account has been disabled. Clients should deal with this errorCode by logging the user out and purging all locally saved content, including local edits not yet pushed to the server.

SSO_AUTHENTICATION_REQUIRED SSO authentication is the only type of authentication allowed for the user's account. This error is thrown when the user attempts to authenticate by another method (password, OpenId, etc).

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	
BUSINESS_SECURITY_LOGIN_REQUIRED	
DEVICE_LIMIT_REACHED	
OPENID_ALREADY_TAKEN	
INVALID_OPENID_TOKEN	
USER_NOT_ASSOCIATED	

Enumerator

USER_NOT_REGISTERED	
USER_ALREADY_ASSOCIATED	
ACCOUNT_CLEAR	
SSO_AUTHENTICATION_REQUIRED	

6.1.3.7 EDAMInvalidContactReason

`enum qevercloud::EDAMInvalidContactReason [strong]`

An enumeration that provides a reason for why a given contact was invalid, for example, as thrown via an EDAM↩ InvalidContactsException.

BAD_ADDRESS The contact information does not represent a valid address for a recipient. Clients should be validating and normalizing contacts, so receiving this error code commonly represents a client error.

DUPLICATE_CONTACT If the method throwing this exception accepts a list of contacts, this error code indicates that the given contact is a duplicate of another contact in the list. Note that the server may clean up contacts, and that this cleanup occurs before checking for duplication. Receiving this error is commonly an indication of a client issue, since client should be normalizing contacts and removing duplicates. All instances that are duplicates are returned. For example, if a list of 5 contacts has the same e-mail address twice, the two conflicting e-mail address contacts will be returned.

NO_CONNECTION Indicates that the given contact, an Evernote type contact, is not connected to the user for which the call is being made. It is possible that clients are out of sync with the server and should re-synchronize their identities and business user state. See Identity.userConnected for more information on user connections.

Note that if multiple reasons may apply, only one is returned. The precedence order is BAD_ADDRESS, DUPL↩ ICATE_CONTACT, NO_CONNECTION, meaning that if a contact has a bad address and is also duplicated, it will be returned as a BAD_ADDRESS.

Enumerator

BAD_ADDRESS	
DUPLICATE_CONTACT	
NO_CONNECTION	

6.1.3.8 EntityType

`enum qevercloud::EntityType [strong]`

Entity types

Enumerator

NOTE	
NOTEBOOK	
WORKSPACE	

6.1.3.9 LogLevel

`enum qevercloud::LogLevel [strong]`

Enumerator

Trace	
Debug	
Info	
Warn	
Error	

6.1.3.10 NoteSortOrder

`enum qevercloud::NoteSortOrder [strong]`

This enumeration defines the possible sort ordering for notes when they are returned from a search result.

Enumerator

CREATED	
UPDATED	
RELEVANCE	
UPDATE_SEQUENCE_NUMBER	
TITLE	

6.1.3.11 PremiumOrderStatus

`enum qevercloud::PremiumOrderStatus [strong]`

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. 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.

Enumerator

NONE	
PENDING	
ACTIVE	
FAILED	
CANCELLATION_PENDING	
CANCELED	

6.1.3.12 PrivilegeLevel

`enum qevercloud::PrivilegeLevel [strong]`

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.

Enumerator

NORMAL	
PREMIUM	
VIP	
MANAGER	
SUPPORT	
ADMIN	

6.1.3.13 QueryFormat

`enum qevercloud::QueryFormat [strong]`

Every search query is specified as a sequence of characters. Currently, only the USER query format is supported.

Enumerator

USER	
SEXP	

6.1.3.14 RecipientStatus

enum qevercloud::RecipientStatus [strong]

This enumeration defines the possible states that a notebook can be in for a recipient. It encompasses the "inMyList" boolean and default notebook status.

NOT_IN_MY_LIST The notebook is not in the recipient's list (not "joined").

IN_MY_LIST The notebook is in the recipient's notebook list (formerly, we would say that the recipient has "joined" the notebook)

IN_MY_LIST_AND_DEFAULT_NOTEBOOK The same as IN_MY_LIST and this notebook is the user's default notebook.

Enumerator

NOT_IN_MY_LIST	
IN_MY_LIST	
IN_MY_LIST_AND_DEFAULT_NOTEBOOK	

6.1.3.15 RelatedContentAccess

enum qevercloud::RelatedContentAccess [strong]

This enumeration defines the possible ways to access related content.

NOT_ACCESSIBLE: The content is not accessible given the user's privilege level, but still worth showing as a snippet. The content url may point to a webpage that explains why not, or explains how to access that content.

DIRECT_LINK_ACCESS_OK: The content is accessible directly, and no additional login is required.

DIRECT_LINK_LOGIN_REQUIRED: The content is accessible directly, but an additional login is required.

DIRECT_LINK_EMBEDDED_VIEW: The content is accessible directly, and should be shown in an embedded web view. If the URL refers to a secured location under our control (for example, https://www.evernote.com/<smth>), the client may include user-specific authentication credentials with the request.

Enumerator

NOT_ACCESSIBLE	
DIRECT_LINK_ACCESS_OK	
DIRECT_LINK_LOGIN_REQUIRED	
DIRECT_LINK_EMBEDDED_VIEW	

6.1.3.16 RelatedContentType

enum qevercloud::RelatedContentType [strong]

This enumeration defines the possible types of related content.

NEWS_ARTICLE: This related content is a news article PROFILE_PERSON: This match refers to the profile of an individual person PROFILE_ORGANIZATION: This match refers to the profile of an organization REFERENCE_↩ MATERIAL: This related content is material from reference works

Enumerator

NEWS_ARTICLE	
PROFILE_PERSON	
PROFILE_ORGANIZATION	
REFERENCE_MATERIAL	

6.1.3.17 ReminderEmailConfig

enum qevercloud::ReminderEmailConfig [strong]

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.

Enumerator

DO_NOT_SEND	
SEND_DAILY_EMAIL	

6.1.3.18 ServiceLevel

enum qevercloud::ServiceLevel [strong]

This enumeration defines the possible tiers of service that a user may have. A ServiceLevel of BUSINESS signifies a business-only account, which can never be any other ServiceLevel.

Enumerator

BASIC	
PLUS	
PREMIUM	
BUSINESS	

6.1.3.19 SharedNotebookInstanceRestrictions

enum qevercloud::SharedNotebookInstanceRestrictions [strong]

An enumeration describing restrictions on the domain of shared notebook instances that are valid for a given operation, as used, for example, in NotebookRestrictions.

ASSIGNED: The domain consists of shared notebooks that belong, or are assigned, to the recipient.

NO_SHARED_NOTEBOOKS: No shared notebooks are applicable to the operation.

Enumerator

ASSIGNED	
NO_SHARED_NOTEBOOKS	

6.1.3.20 SharedNotebookPrivilegeLevel

enum qevercloud::SharedNotebookPrivilegeLevel [strong]

Privilege levels for accessing shared notebooks.

Note that as of 2014-04, FULL_ACCESS is synonymous with BUSINESS_FULL_ACCESS. If a user is a member of a business and has FULL_ACCESS privileges, then they will automatically be granted BUSINESS_FULL_ACCESS for notebooks in their business. This will happen implicitly when they attempt to access the corresponding notebooks of the business. BUSINESS_FULL_ACCESS is therefore deprecated.

READ_NOTEBOOK: Recipient is able to read the contents of the shared notebook but does not 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. For members of a business, FULL_ACCESS privilege on business notebooks also grants the ability to change how the notebook will appear when shared with the business, including the rights to share and unshare the notebook with the business.

BUSINESS_FULL_ACCESS: Deprecated. See the note above about BUSINESS_FULL_ACCESS and FULL_ACCESS being synonymous.

Enumerator

READ_NOTEBOOK	
MODIFY_NOTEBOOK_PLUS_ACTIVITY	
READ_NOTEBOOK_PLUS_ACTIVITY	
GROUP	
FULL_ACCESS	
BUSINESS_FULL_ACCESS	

6.1.3.21 SharedNotePrivilegeLevel

`enum qevercloud::SharedNotePrivilegeLevel [strong]`

Privilege levels for accessing a shared note. All privilege levels convey "activity feed" access, which allows the recipient to access information about other recipients and the activity stream.

READ_NOTE: Recipient has rights to read the shared note.

MODIFY_NOTE: Recipient has all of the rights of READ_NOTE, plus rights to modify the shared note's content, title and resources. Other fields, including the notebook, tags and metadata, may not be modified.

FULL_ACCESS: Recipient has all of the rights of MODIFY_NOTE, plus rights to share the note with other users via email, public note links, and note sharing. Recipient may also update and remove other recipient's note sharing rights.

Enumerator

READ_NOTE	
MODIFY_NOTE	
FULL_ACCESS	

6.1.3.22 ShareRelationshipPrivilegeLevel

`enum qevercloud::ShareRelationshipPrivilegeLevel [strong]`

Privilege levels for accessing shared notebooks.

READ_NOTEBOOK: Recipient is able to read the contents of the shared notebook but does not have access to information about other recipients of the notebook or the activity stream information.

READ_NOTEBOOK_PLUS_ACTIVITY: Recipient has READ_NOTEBOOK rights and can also access information about other recipients and the activity stream.

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.

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. If the user is a member of the same group, (e.g. the same business) as the shared notebook, they will additionally be granted permissions to update the publishing status of the notebook.

Enumerator

READ_NOTEBOOK	
READ_NOTEBOOK_PLUS_ACTIVITY	
MODIFY_NOTEBOOK_PLUS_ACTIVITY	
FULL_ACCESS	

6.1.3.23 SponsoredGroupRole

```
enum qevercloud::SponsoredGroupRole  [strong]
```

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.

Enumerator

GROUP_MEMBER	
GROUP_ADMIN	
GROUP_OWNER	

6.1.3.24 UserIdentityType

```
enum qevercloud::UserIdentityType  [strong]
```

Enumerator

EVERNOTE_USERID	
EMAIL	
IDENTITYID	

6.1.4 Function Documentation

6.1.4.1 evernoteNetworkProxy()

```
QEVERCLOUD_EXPORT QNetworkProxy qevercloud::evernoteNetworkProxy ( )
```

Getter for network proxy settings used by QEverCloud. If none were set explicitly, returns the same result as QNetworkProxy::applicationProxy. Hence, QEverCloud uses the same proxy settings as the application which uses QEverCloud by default.

This function is thread-safe although internally it operates on a static object containing proxy settings so it's not recommended to read and write proxy settings concurrently to avoid contention for static object.

WARNING: when QEverCloud is built with QtWebEngine and some proxy settings different from QNetworkProxy::applicationProxy are set, the OAuth call which loads the web page would not use them; instead it would use proxy settings from QNetworkProxy::applicationProxy. This limitation is imposed by Qt: https://doc.qt.io/qt-5/qtwebengine-overview.html#proxy-support

6.1.4.2 initializeQEverCloud()

```
QEVERCLOUD_EXPORT void qevercloud::initializeQEverCloud ( )
```

Initialization function for QEverCloud, needs to be called once before using the library. There is no harm if it is called multiple times

6.1.4.3 libraryVersion()

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

QEverCloud library version.

6.1.4.4 logger()

```
QEVERCLOUD_EXPORT ILoggerPtr qevercloud::logger ( )
```

6.1.4.5 newDurableService()

```
QEVERCLOUD_EXPORT IDurableServicePtr qevercloud::newDurableService (
            IRetryPolicyPtr  = {},
            IRequestContextPtr  = {} )
```

6.1.4.6 newNoteStore()

```
QEVERCLOUD_EXPORT INoteStore* qevercloud::newNoteStore (
            QString noteStoreUrl = {},
            IRequestContextPtr ctx = {},
            QObject * parent = nullptr,
            IRetryPolicyPtr retryPolicy = {} )
```

6.1.4.7 newRequestContext()

```
QEVERCLOUD_EXPORT IRequestContextPtr qevercloud::newRequestContext (
            QString authenticationToken = {},
            qint64 requestTimeout = DEFAULT_REQUEST_TIMEOUT_MSEC,
            bool increaseRequestTimeoutExponentially = DEFAULT_REQUEST_TIMEOUT_EXPONENTIAL_↩
INCREASE,
            qint64 maxRequestTimeout = DEFAULT_MAX_REQUEST_TIMEOUT_MSEC,
            quint32 maxRequestRetryCount = DEFAULT_MAX_REQUEST_RETRY_COUNT,
            QList< QNetworkCookie > cookies = {} )
```

6.1.4.8 newRetryPolicy()

```
QEVERCLOUD_EXPORT IRetryPolicyPtr qevercloud::newRetryPolicy ( )
```

6.1.4.9 newStdErrLogger()

```
QEVERCLOUD_EXPORT ILoggerPtr qevercloud::newStdErrLogger (
            LogLevel level = LogLevel::Warn )
```

6.1.4.10 newUserStore()

```
QEVERCLOUD_EXPORT IUserStore* qevercloud::newUserStore (
            QString userStoreUrl = {},
            IRequestContextPtr ctx = {},
            QObject * parent = nullptr,
            IRetryPolicyPtr retryPolicy = {} )
```

6.1.4.11 nullLogger()

```
QEVERCLOUD_EXPORT ILoggerPtr qevercloud::nullLogger ( )
```

6.1.4.12 nullRetryPolicy()

```
QEVERCLOUD_EXPORT IRetryPolicyPtr qevercloud::nullRetryPolicy ( )
```

6.1.4.13 operator<<() [1/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const LogLevel level )
```

6.1.4.14 operator<<() [2/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const LogLevel level )
```

6.1.4.15 operator<<() [3/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const EDAMErrorCode value )
```

6.1.4.16 operator<<() [4/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const EDAMErrorCode value )
```

6.1.4.17 operator<<() [5/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const EDAMInvalidContactReason value )
```

6.1.4.18 operator<<() [6/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const EDAMInvalidContactReason value )
```

6.1.4.19 operator<<() [7/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const ShareRelationshipPrivilegeLevel value )
```

6.1.4.20 operator<<() [8/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const ShareRelationshipPrivilegeLevel value )
```

6.1.4.21 operator<<() [9/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const PrivilegeLevel value )
```

6.1.4.22 operator<<() [10/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const PrivilegeLevel value )
```

6.1.4.23 operator<<() [11/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const ServiceLevel value )
```

6.1.4.24 operator<<() [12/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const ServiceLevel value )
```

6.1.4.25 operator<<() [13/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const QueryFormat value )
```

6.1.4.26 operator<<() [14/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const QueryFormat value )
```

6.1.4.27 operator<<() [15/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const NoteSortOrder value )
```

6.1.4.28 operator<<() [16/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const NoteSortOrder value )
```

6.1.4.29 operator<<() [17/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const PremiumOrderStatus value )
```

6.1.4.30 operator<<() [18/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const PremiumOrderStatus value )
```

6.1.4.31 operator<<() [19/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const SharedNotebookPrivilegeLevel value )
```

6.1.4.32 operator<<() [20/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const SharedNotebookPrivilegeLevel value )
```

6.1.4.33 operator<<() [21/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const SharedNotePrivilegeLevel value )
```

6.1.4.34 operator<<() [22/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const SharedNotePrivilegeLevel value )
```

6.1.4.35 operator<<() [23/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const SponsoredGroupRole value )
```

6.1.4.36 operator<<() [24/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const SponsoredGroupRole value )
```

6.1.4.37 operator<<() [25/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const BusinessUserRole value )
```

6.1.4.38 operator<<() [26/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const BusinessUserRole value )
```

6.1.4.39 operator<<() [27/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const BusinessUserStatus value )
```

6.1.4.40 operator<<() [28/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const BusinessUserStatus value )
```

6.1.4.41 operator<<() [29/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const SharedNotebookInstanceRestrictions value )
```

6.1.4.42 operator<<() [30/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const SharedNotebookInstanceRestrictions value )
```

6.1.4.43 operator<<() [31/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const ReminderEmailConfig value )
```

6.1.4.44 operator<<() [32/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const ReminderEmailConfig value )
```

6.1.4.45 operator<<() [33/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const BusinessInvitationStatus value )
```

6.1.4.46 operator<<() [34/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const BusinessInvitationStatus value )
```

6.1.4.47 operator<<() [35/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const ContactType value )
```

6.1.4.48 operator<<() [36/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const ContactType value )
```

6.1.4.49 operator<<() [37/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const EntityType value )
```

6.1.4.50 operator<<() [38/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const EntityType value )
```

6.1.4.51 operator<<() [39/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const RecipientStatus value )
```

6.1.4.52 operator<<() [40/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const RecipientStatus value )
```

6.1.4.53 operator<<() [41/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const CanMoveToContainerStatus value )
```

6.1.4.54 operator<<() [42/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const CanMoveToContainerStatus value )
```

6.1.4.55 operator<<() [43/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const RelatedContentType value )
```

6.1.4.56 operator<<() [44/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const RelatedContentType value )
```

6.1.4.57 operator<<() [45/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const RelatedContentAccess value )
```

6.1.4.58 operator<<() [46/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const RelatedContentAccess value )
```

6.1.4.59 operator<<() [47/48]

```
QEVERCLOUD_EXPORT QTextStream& qevercloud::operator<< (
            QTextStream & out,
            const UserIdentityType value )
```

6.1.4.60 operator<<() [48/48]

```
QEVERCLOUD_EXPORT QDebug& qevercloud::operator<< (
            QDebug & out,
            const UserIdentityType value )
```

6.1.4.61 qHash() [1/23]

```
uint qevercloud::qHash (
            EDAMErrorCode value )  [inline]
```

6.1.4.62 qHash() [2/23]

```
uint qevercloud::qHash (
            EDAMInvalidContactReason value )  [inline]
```

6.1.4.63 qHash() [3/23]

```
uint qevercloud::qHash (
            ShareRelationshipPrivilegeLevel value )  [inline]
```

6.1.4.64 qHash() [4/23]

```
uint qevercloud::qHash (
            PrivilegeLevel value )  [inline]
```

6.1.4.65 qHash() [5/23]

```
uint qevercloud::qHash (
            ServiceLevel value )  [inline]
```

6.1.4.66 qHash() [6/23]

```
uint qevercloud::qHash (
            QueryFormat value )  [inline]
```

6.1.4.67 qHash() [7/23]

```
uint qevercloud::qHash (
            NoteSortOrder value )  [inline]
```

6.1.4.68 qHash() [8/23]

```
uint qevercloud::qHash (
            PremiumOrderStatus value )  [inline]
```

6.1.4.69 qHash() [9/23]

```
uint qevercloud::qHash (
            SharedNotebookPrivilegeLevel value )  [inline]
```

6.1.4.70 qHash() [10/23]

```
uint qevercloud::qHash (
            SharedNotePrivilegeLevel value )  [inline]
```

6.1.4.71 qHash() [11/23]

```
uint qevercloud::qHash (
            SponsoredGroupRole value )  [inline]
```

6.1.4.72 qHash() [12/23]

```
uint qevercloud::qHash (
            BusinessUserRole value )  [inline]
```

6.1.4.73 qHash() [13/23]

```
uint qevercloud::qHash (
            BusinessUserStatus value )  [inline]
```

6.1.4.74 qHash() [14/23]

```
uint qevercloud::qHash (
            SharedNotebookInstanceRestrictions value )  [inline]
```

6.1.4.75 qHash() [15/23]

```
uint qevercloud::qHash (
            ReminderEmailConfig value )  [inline]
```

6.1.4.76 qHash() [16/23]

```
uint qevercloud::qHash (
            BusinessInvitationStatus value )  [inline]
```

6.1.4.77 qHash() [17/23]

```
uint qevercloud::qHash (
            ContactType value )  [inline]
```

6.1.4.78 qHash() [18/23]

```
uint qevercloud::qHash (
            EntityType value )  [inline]
```

6.1.4.79 qHash() [19/23]

```
uint qevercloud::qHash (
            RecipientStatus value )  [inline]
```

6.1.4.80 qHash() [20/23]

```
uint qevercloud::qHash (
            CanMoveToContainerStatus value )  [inline]
```

6.1.4.81 qHash() [21/23]

```
uint qevercloud::qHash (
            RelatedContentType value )  [inline]
```

6.1.4.82 qHash() [22/23]

```
uint qevercloud::qHash (
            RelatedContentAccess value )  [inline]
```

6.1.4.83 qHash() [23/23]

```
uint qevercloud::qHash (
            UserIdentityType value )  [inline]
```

6.1.4.84 resetEvernoteNetworkProxy()

```
QEVERCLOUD_EXPORT void qevercloud::resetEvernoteNetworkProxy ( )
```

Reset network proxy settings used by QEverCloud to those returned from QNetworkProxy::applicationProxy static method.

This function is thread-safe although internally it operates on a static object containing proxy settings so it's not recommended to read and write proxy settings concurrently to avoid contention for static object.

6.1.4.85 setEvernoteNetworkProxy()

```
QEVERCLOUD_EXPORT void qevercloud::setEvernoteNetworkProxy (
            QNetworkProxy proxy )
```

Setter for network proxy settings used by QEverCloud. If this function is never called, QEverCloud would use proxy settings returned from QNetworkProxy::applicationProxy static method.

This function is thread-safe although internally it operates on a static object containing proxy settings so it's not recommended to read and write proxy settings concurrently to avoid contention for static object.

WARNING: when QEverCloud is built with QtWebEngine and some proxy settings different from QNetworkProxy↩ ::applicationProxy are set, the OAuth call which loads the web page would not use them; instead it would use proxy settings from QNetworkProxy::applicationProxy. This limitation is imposed by Qt: https://doc.qt.↩ io/qt-5/qtwebengine-overview.html#proxy-support

6.1.4.86 setLogger()

```
QEVERCLOUD_EXPORT void qevercloud::setLogger (
            ILoggerPtr logger )
```

6.1.4.87 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 available. 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.

6.1.4.88 toRange() [1/2]

```
template<class Container >
QAssociativeContainerReferenceWrapper<Container> qevercloud::toRange (
            Container & container )
```

6.1.4.89 toRange() [2/2]

```
template<class Container >
QAssociativeContainerConstReferenceWrapper<Container> qevercloud::toRange (
            const Container & container )
```

6.1.5 Variable Documentation

6.1.5.1 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.

6.1.5.2 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.

6.1.5.3 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.

6.1.5.4 EDAM_APP_RATING_MAX

```
QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_APP_RATING_MAX
```

6.1.5.5 EDAM_APP_RATING_MIN

```
QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_APP_RATING_MIN
```

App Feedback Rating range

6.1.5.6 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.

6.1.5.7 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.

6.1.5.8 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.

6.1.5.9 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.

6.1.5.10 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.

6.1.5.11 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.

6.1.5.12 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.

6.1.5.13 EDAM_ATTRIBUTE_LEN_MAX

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

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

6.1.5.14 EDAM_ATTRIBUTE_LEN_MIN

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

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

6.1.5.15 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)

6.1.5.16 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.

6.1.5.17 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.

6.1.5.18 EDAM_BUSINESS_MARKETING_CODE_REGEX_PATTERN

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_BUSINESS_MARKETING_CODE_REGEX_PATTERN
```

Valid Evernote Business marketing code / affiliate code format.

6.1.5.19 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.

6.1.5.20 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.

6.1.5.21 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.

6.1.5.22 EDAM_BUSINESS_NOTEBOOKS_MAX

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

Maximum number of Notebooks in a business account

6.1.5.23 EDAM_BUSINESS_NOTES_MAX

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

Maximum number of Notes per business account

6.1.5.24 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.

6.1.5.25 EDAM_BUSINESS_TAGS_MAX

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

Maximum number of Tags per business account.

6.1.5.26 EDAM_BUSINESS_URI_LEN_MAX

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

The maximum length of an Evernote Business URI

6.1.5.27 EDAM_BUSINESS_WORKSPACES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_WORKSPACES_MAX
```

Maximum number of Workspaces in a business account

6.1.5.28 EDAM_CONNECTED_IDENTITY_REQUEST_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_CONNECTED_IDENTITY_REQUEST_MAX
```

The maximum number of connected identities a client can request.

6.1.5.29 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.

6.1.5.30 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.

6.1.5.31 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.

6.1.5.32 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.

6.1.5.33 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.

6.1.5.34 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.

6.1.5.35 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.

6.1.5.36 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.

6.1.5.37 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.

6.1.5.38 EDAM_DEVICE_DESCRIPTION_REGEX

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

Regular expression for device description strings associated with long sessions.

6.1.5.39 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.

6.1.5.40 EDAM_DEVICE_ID_REGEX

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

Regular expression for device identifier strings associated with long sessions.

6.1.5.41 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.

6.1.5.42 EDAM_EMAIL_LEN_MAX

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

The maximum length of any email address

6.1.5.43 EDAM_EMAIL_LEN_MIN

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

The minimum length of any email address

6.1.5.44 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.

6.1.5.45 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.

6.1.5.46 EDAM_FIND_CONTACT_DEFAULT_MAX_RESULTS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_FIND_CONTACT_DEFAULT_MAX_RESULTS
```

Default maximum number of results the service will return for findContact

6.1.5.47 EDAM_FIND_CONTACT_MAX_RESULTS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_FIND_CONTACT_MAX_RESULTS
```

Absolute maximum number of results the service will return for findContact

6.1.5.48 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.

6.1.5.49 EDAM_GET_ORDERS_MAX_RESULTS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GET_ORDERS_MAX_RESULTS
```

Absolute maximum number of results the servce will return for PersistentInternalMarket.getOrders()

6.1.5.50 EDAM_GUID_LEN_MAX

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

The maximum length of a GUID generated by the Evernote service

6.1.5.51 EDAM_GUID_LEN_MIN

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

The minimum length of a GUID generated by the Evernote service

6.1.5.52 EDAM_GUID_REGEX

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

GUIDs generated by the Evernote service will match the provided pattern

6.1.5.53 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.

6.1.5.54 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.

6.1.5.55 EDAM_INDEXABLE_PLAINTEXT_MIME_TYPES

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

The set of plain text MIME types that Evernote will parse and index for searching. The MIME types which start with "text/" will be handled separately by each client (i.e. hard-coded in each client).

6.1.5.56 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, PDFs and plain text files, which are handled in a different way.

6.1.5.57 EDAM_MAX_PREFERENCES

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

Maximum number of name/value pairs allowed

6.1.5.58 EDAM_MAX_VALUES_PER_PREFERENCE

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

Maximum number of values per preference name when using values of size no greater than EDAM_PREFEREN↩ CE_VALUE_LEN_MAX.

6.1.5.59 EDAM_MESSAGE_ATTACHMENT_SNIPPET_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENT_SNIPPET_LEN_MAX
```

The maximum length of a message attachment snippet in unicode characters.

6.1.5.60 EDAM_MESSAGE_ATTACHMENT_SNIPPET_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_ATTACHMENT_SNIPPET_REGEX
```

The regex to validate message attachment snippets against

6.1.5.61 EDAM_MESSAGE_ATTACHMENT_TITLE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENT_TITLE_LEN_MAX
```

The maximum length of a message attachment title in unicode characters.

6.1.5.62 EDAM_MESSAGE_ATTACHMENT_TITLE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_ATTACHMENT_TITLE_REGEX
```

The regex to validate message attachment titles against

6.1.5.63 EDAM_MESSAGE_ATTACHMENTS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENTS_MAX
```

The maximum number of attachments a Message can have.

6.1.5.64 EDAM_MESSAGE_BODY_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_BODY_LEN_MAX
```

The maximum length of a message body in unicode characters.

6.1.5.65 EDAM_MESSAGE_BODY_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_BODY_REGEX
```

The regex to validate message.body against

6.1.5.66 EDAM_MESSAGE_RECIPIENTS_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_RECIPIENTS_MAX
```

The maximum number of recipients on a MessageThread.

6.1.5.67 EDAM_MIME_LEN_MAX

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

The maximum length of any MIME type string given to Evernote

6.1.5.68 EDAM_MIME_LEN_MIN

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

The minimum length of any MIME type string given to Evernote

6.1.5.69 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

6.1.5.70 EDAM_MIME_TYPE_AAC

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

Canonical MIME type string for AAC audio resources

6.1.5.71 EDAM_MIME_TYPE_AMR

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

Canonical MIME type string for AMR audio resources

6.1.5.72 EDAM_MIME_TYPE_BMP

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_BMP
```

Canonical MIME type string for BMP image resources

6.1.5.73 EDAM_MIME_TYPE_DEFAULT

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

MIME type used for attachments of an unspecified type

6.1.5.74 EDAM_MIME_TYPE_GIF

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

Canonical MIME type string for GIF image resources

6.1.5.75 EDAM_MIME_TYPE_INK

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

Canonical MIME type string for Evernote Ink resources

6.1.5.76 EDAM_MIME_TYPE_JPEG

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

Canonical MIME type string for JPEG image resources

6.1.5.77 EDAM_MIME_TYPE_M4A

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

Canonical MIME type string for MP4 audio resources

6.1.5.78 EDAM_MIME_TYPE_MP3

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

Canonical MIME type string for MP3 audio resources

6.1.5.79 EDAM_MIME_TYPE_MP4_VIDEO

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

Canonical MIME type string for MP4 video resources

6.1.5.80 EDAM_MIME_TYPE_PDF

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

Canonical MIME type string for PDF resources

6.1.5.81 EDAM_MIME_TYPE_PNG

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

Canonical MIME type string for PNG image resources

6.1.5.82 EDAM_MIME_TYPE_TIFF

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_TIFF
```

Canonical MIME type string for TIFF image resources

6.1.5.83 EDAM_MIME_TYPE_WAV

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

Canonical MIME type string for WAV audio resources

6.1.5.84 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.

6.1.5.85 EDAM_NOTE_BUSINESS_SHARED_NOTE_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_BUSINESS_SHARED_NOTE_MAX
```

Maximum number of SharedNote records per business note

6.1.5.86 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.

6.1.5.87 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.

6.1.5.88 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.

6.1.5.89 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.

6.1.5.90 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.

6.1.5.91 EDAM_NOTE_LOCK_VIEWERS_NOTES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_LOCK_VIEWERS_NOTES_MAX
```

The maximum number of separate notes that may be queried in a single call to NoteStore.getViewersForNotes.

6.1.5.92 EDAM_NOTE_PERSONAL_SHARED_NOTE_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_PERSONAL_SHARED_NOTE_MAX
```

Maximum number of SharedNote records per personal note

6.1.5.93 EDAM_NOTE_RESOURCES_MAX

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

The maximum number of Resources per Note

6.1.5.94 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).

6.1.5.95 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).

6.1.5.96 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.

6.1.5.97 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.

6.1.5.98 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.

6.1.5.99 EDAM_NOTE_SOURCE_WEB_CLIP_SIMPLIFIED

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_NOTE_SOURCE_WEB_CLIP_SIMPLIFIED
```

Standardized value for the 'source' NoteAttribute for notes that were clipped using the "simplified article" function of the clipper.

6.1.5.100 EDAM_NOTE_TAGS_MAX

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

The maximum number of Tags per Note

6.1.5.101 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

6.1.5.102 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

6.1.5.103 EDAM_NOTE_TITLE_QUALITY_HIGH

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_HIGH
```

A NoteAttributes.noteTitleQuality value indicating that the quality of an automatically generated note title is high. Examples of high quality titles include those based on a scanned business card, such as "John Doe - Scanned Business Card".

6.1.5.104 EDAM_NOTE_TITLE_QUALITY_LOW

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_LOW
```

A NoteAttributes.noteTitleQuality value indicating that the quality of an automatically generated note title is low. Examples of low quality titles include those based on a note's type and location, such as "Snapshot from 123 Sesame Street in New York".

6.1.5.105 EDAM_NOTE_TITLE_QUALITY_MEDIUM

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_MEDIUM
```

A NoteAttributes.noteTitleQuality value indicating that the quality of an automatically generated note title is medium. Examples of medium quality titles include those based on a calendar entry, such as "Note from Weekly Staff Meeting".

6.1.5.106 EDAM_NOTE_TITLE_QUALITY_UNTITLED

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_UNTITLED
```

A NoteAttributes.noteTitleQuality value indicating that a note has no meaningful title, only a placeholder value such as "Untitled Note".

6.1.5.107 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.

6.1.5.108 EDAM_NOTEBOOK_BUSINESS_SHARED_NOTEBOOK_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_BUSINESS_SHARED_NOTEBOOK_MAX
```

Maximum number of shared notebooks per business notebook

6.1.5.109 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

6.1.5.110 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

6.1.5.111 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.

6.1.5.112 EDAM_NOTEBOOK_PERSONAL_SHARED_NOTEBOOK_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_PERSONAL_SHARED_NOTEBOOK_MAX
```

Maximum number of shared notebooks per personal notebook

6.1.5.113 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

6.1.5.114 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

6.1.5.115 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.

6.1.5.116 EDAM_OPEN_ID_ACCESS_TOKEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_OPEN_ID_ACCESS_TOKEN_MAX
```

Maximum length for OpenID token. There is no official enforced limit. The length of the Token ID depends on the provider. 1000 seems to be the safest value at this time.

6.1.5.117 EDAM_PREFERENCE_BUSINESS_DEFAULT_NOTEBOOK

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_BUSINESS_DEFAULT_NOTEBOOK
```

The name of the preferences entry that contains the notebook GUID (not the linked notebook) of the default business notebook. It must be in the format EDAM_GUID_REGEX. If a default business notebook is not set and the user is a business user the user should be prompted to set the default business notebook. The default business notebook must be a read/write notebook. Whenever the default business notebook guid is used, it must be revalidiated as a writable notebook. If it is not valid, the user should be re-prompted to set the value. This value is used by clients only.

6.1.5.118 EDAM_PREFERENCE_BUSINESS_QUICKNOTE

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_BUSINESS_QUICKNOTE
```

The name of the preferences entry that contains a boolean indicating that default quicknotes should go into a business notebook. The EDAM_PREFERENCE_BUSINESS_DEFAULT_NOTEBOOK must be set correctly for this preference to be honored. The quicknote preferences should only be set to "true", if quicknote should use a business notebook. Any value other than "true" (or the omission of a value) should be treated as "false". In this case, quicknotes should be created in in the user's personal default notebook. The interface should not allow users to set quicknote to a business notebook without a valid default business notebook selected, however, clients should handle the edge case of an invalid business notebook guid. If a user stops being a business user or does not have write access to any business notebooks the quicknote preference should be ignored.

6.1.5.119 EDAM_PREFERENCE_NAME_LEN_MAX

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

Maximum length of a preference name

6.1.5.120 EDAM_PREFERENCE_NAME_LEN_MIN

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

Minimum length of a preference name

6.1.5.121 EDAM_PREFERENCE_NAME_REGEX

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

A preference name must match this regex.

6.1.5.122 EDAM_PREFERENCE_ONLY_ONE_VALUE_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PREFERENCE_ONLY_ONE_VALUE_LEN_MAX
```

The maximum length of a preference value if you only use one value per preference rather than up to EDAM_↩ MAX_VALUES_PER_PREFERENCE. This option is useful if you want a single string that is larger than EDAM↩ _PREFERENCE_VALUE_LEN_MAX and would otherwise need to split the string into multiple pieces to store it.

6.1.5.123 EDAM_PREFERENCE_ONLY_ONE_VALUE_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_ONLY_ONE_VALUE_REGEX
```

A preference value must match this regex if you are using a single value for a preference.

6.1.5.124 EDAM_PREFERENCE_SHORTCUTS

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

The name of the preferences entry that contains shortcuts.

6.1.5.125 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.

6.1.5.126 EDAM_PREFERENCE_VALUE_LEN_MAX

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

Maximum length of a preference value

6.1.5.127 EDAM_PREFERENCE_VALUE_LEN_MIN

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

Minimum length of a preference value

6.1.5.128 EDAM_PREFERENCE_VALUE_REGEX

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

A preference value must match this regex if you are using more than a single value for a preference.

6.1.5.129 EDAM_PROMOTION_ID_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PROMOTION_ID_LEN_MAX
```

The maximum length of a promotion ID in unicode characters.

6.1.5.130 EDAM_PROMOTION_ID_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PROMOTION_ID_REGEX
```

The regex to validate promotion IDs against.

6.1.5.131 EDAM_PUBLISHING_DESCRIPTION_LEN_MAX

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

The maximum length of a Publishing.publicDescription field.

6.1.5.132 EDAM_PUBLISHING_DESCRIPTION_LEN_MIN

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

The minimum length of a Publishing.publicDescription field.

6.1.5.133 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.

6.1.5.134 EDAM_PUBLISHING_URI_LEN_MAX

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

The maximum length of a public notebook URI component

6.1.5.135 EDAM_PUBLISHING_URI_LEN_MIN

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

The minimum length of a public notebook URI component

6.1.5.136 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

6.1.5.137 EDAM_PUBLISHING_URI_REGEX

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

A public notebook URI component must match the provided pattern

6.1.5.138 EDAM_RELATED_MAX_EXPERTS

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_EXPERTS
```

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

6.1.5.139 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.

6.1.5.140 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.

6.1.5.141 EDAM_RELATED_MAX_RELATED_CONTENT

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_RELATED_CONTENT
```

The maximum number of related content snippets that will be returned from a findRelated() query.

6.1.5.142 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.

6.1.5.143 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.

6.1.5.144 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.

6.1.5.145 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

6.1.5.146 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

6.1.5.147 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

6.1.5.148 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

6.1.5.149 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.

6.1.5.150 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

6.1.5.151 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

6.1.5.152 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.

6.1.5.153 EDAM_SEARCH_SUGGESTIONS_MAX

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

Maximum number of search suggestions that can be returned

6.1.5.154 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MAX

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

Maximum length of the search suggestion prefix

6.1.5.155 EDAM_SEARCH_SUGGESTIONS_PREFIX_LEN_MIN

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

Minimum length of the search suggestion prefix

6.1.5.156 EDAM_SNIPPETS_NOTES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SNIPPETS_NOTES_MAX
```

The maximium number of note snippets you can retrieve in a single request

6.1.5.157 EDAM_SOURCE_APPLICATION_ANDROID_SHARE_EXTENSION

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_ANDROID_SHARE_EXTENSION
```

The NoteAttributes.sourceApplication value used for notes captured with the Android share extension.

6.1.5.158 EDAM_SOURCE_APPLICATION_EN_SCANSNAP

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_EN_SCANSNAP
```

The NoteAttributes.sourceApplication value used for notes captured by PFU ScanSnap Evernote Edition.

6.1.5.159 EDAM_SOURCE_APPLICATION_EWC

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_EWC
```

The NoteAttributes.sourceApplication value used for notes captured with the Embedded Web Clipper.

6.1.5.160 EDAM_SOURCE_APPLICATION_IOS_SHARE_EXTENSION

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_IOS_SHARE_EXTENSION
```

The NoteAttributes.sourceApplication value used for notes captured with the iOS share extension.

6.1.5.161 EDAM_SOURCE_APPLICATION_MOLESKINE

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_MOLESKINE
```

The NoteAttributes.sourceApplication value used for notes captured by the Moleskine page camera.

6.1.5.162 EDAM_SOURCE_APPLICATION_POSTIT

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_POSTIT
```

The NoteAttributes.sourceApplication value used for notes captured by the Post-it camera.

6.1.5.163 EDAM_SOURCE_APPLICATION_WEB_CLIPPER

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_WEB_CLIPPER
```

The NoteAttributes.sourceApplication value used for notes captured with the Evernote Web Clipper.

6.1.5.164 EDAM_SOURCE_OUTLOOK_CLIPPER

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_OUTLOOK_CLIPPER
```

The NoteAttributes.source value used for notes captured by the Microsoft Outlook clipper.

6.1.5.165 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

6.1.5.166 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

6.1.5.167 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.

6.1.5.168 EDAM_TIMEZONE_LEN_MAX

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

The maximum length of a timezone specification string

6.1.5.169 EDAM_TIMEZONE_LEN_MIN

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

The minimum length of a timezone specification string

6.1.5.170 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

6.1.5.171 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.

6.1.5.172 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".

6.1.5.173 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.

6.1.5.174 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.

6.1.5.175 EDAM_USER_NAME_LEN_MAX

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

Maximum length of the User.name field

6.1.5.176 EDAM_USER_NAME_LEN_MIN

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

Minimum length of the User.name field

6.1.5.177 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.

6.1.5.178 EDAM_USER_NOTEBOOKS_MAX

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

Maximum number of Notebooks per user

6.1.5.179 EDAM_USER_NOTES_MAX

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

Maximum number of Notes per user

6.1.5.180 EDAM_USER_PASSWORD_LEN_MAX

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

The maximum length of an Evernote user password

6.1.5.181 EDAM_USER_PASSWORD_LEN_MIN

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

The minimum length of an Evernote user password

6.1.5.182 EDAM_USER_PASSWORD_REGEX

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

Evernote user passwords must match this regular expression

6.1.5.183 EDAM_USER_PROFILE_PHOTO_MAX_BYTES

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PROFILE_PHOTO_MAX_BYTES
```

Maximum user profile photo size, in bytes, that clients may send to the service. Photos may be resized before being stored on the service.

6.1.5.184 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)

6.1.5.185 EDAM_USER_SAVED_SEARCHES_MAX

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

Maximum number of SavedSearches per account

6.1.5.186 EDAM_USER_TAGS_MAX

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

Maximum number of Tags per account

6.1.5.187 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.

6.1.5.188 EDAM_USER_UPLOAD_LIMIT_BUSINESS_FIRST_MONTH

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS_FIRST_MONTH
```

The number of bytes of new data that may be uploaded to new business account during the first month. 50GB.

6.1.5.189 EDAM_USER_UPLOAD_LIMIT_BUSINESS_NEXT_MONTH

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS_NEXT_MONTH
```

The number of bytes of new data that may be uploaded to a business account for the next month. 20GB.

6.1.5.190 EDAM_USER_UPLOAD_LIMIT_BUSINESS_PER_USER

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS_PER_USER
```

The number of bytes of new data that may be uploaded to a Business for each member of the business per month. The total bytes available can be determined by multiplying this with the number of business users.

6.1.5.191 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.

6.1.5.192 EDAM_USER_UPLOAD_LIMIT_PLUS

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_PLUS
```

The number of bytes of new data that may be uploaded each month to an account at a Plus service level.

6.1.5.193 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.

6.1.5.194 EDAM_USER_UPLOAD_SURVEY_THRESHOLD

```
QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_SURVEY_THRESHOLD
```

The number of bytes of new data uploaded in a monthly quota cycle at which point users should be prompted with a survey to gather information on how they are using Evernote.

6.1.5.195 EDAM_USER_USERNAME_LEN_MAX

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

The maximum length of an Evernote username

6.1.5.196 EDAM_USER_USERNAME_LEN_MIN

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

The minimum length of an Evernote username

6.1.5.197 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"

6.1.5.198 EDAM_USER_WORKSPACES_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_WORKSPACES_MAX
```

Maximum number of Workspaces per user

6.1.5.199 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

6.1.5.200 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.

6.1.5.201 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.

6.1.5.202 EDAM_WORKSPACE_DESCRIPTION_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_WORKSPACE_DESCRIPTION_LEN_MAX
```

The maximum length of a Workspace.description, in Unicode characters

6.1.5.203 EDAM_WORKSPACE_NAME_LEN_MAX

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_WORKSPACE_NAME_LEN_MAX
```

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

6.1.5.204 EDAM_WORKSPACE_NAME_LEN_MIN

```
QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_WORKSPACE_NAME_LEN_MIN
```

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

6.1.5.205 EDAM_WORKSPACE_NAME_REGEX

```
QEVERCLOUD_EXPORT const QString qevercloud::EDAM_WORKSPACE_NAME_REGEX
```

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

6.1.5.206 EverCloudExceptionData

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

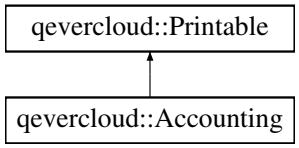
Chapter 7

Class Documentation

7.1 qevercloud::Accounting Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::Accounting:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Accounting &other) const
- bool operator!= (const Accounting &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Timestamp > uploadLimitEnd
- Optional< qint64 > uploadLimitNextMonth
- Optional< PremiumOrderStatus > 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 > businessRole
- Optional< qint32 > unitDiscount
- Optional< Timestamp > nextChargeDate
- Optional< qint32 > availablePoints

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]
```

7.1.2.3 print()

```
virtual void qevercloud::Accounting::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.1.3 Member Data Documentation

7.1.3.1 availablePoints

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

NOT DOCUMENTED

7.1.3.2 businessId

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

*DEPRECATED:*See BusinessUserInfo.

7.1.3.3 businessName

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

*DEPRECATED:*See BusinessUserInfo.

7.1.3.4 businessRole

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

*DEPRECATED:*See BusinessUserInfo.

7.1.3.5 currency

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

ISO 4217 currency code

7.1.3.6 lastFailedCharge

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

Date the last time a charge was attempted and failed.

7.1.3.7 lastFailedChargeReason

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

Reason provided for the charge failure

7.1.3.8 lastRequestedCharge

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

Date charge last attempted

7.1.3.9 lastSuccessfulCharge

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

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

7.1.3.10 localData

```
EverCloudLocalData qevercloud::Accounting::localData
```

See the declaration of EverCloudLocalData for details

7.1.3.11 nextChargeDate

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

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

7.1.3.12 nextPaymentDue

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

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

7.1.3.13 premiumCommerceService

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

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

7.1.3.14 premiumLockUntil

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

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

7.1.3.15 premiumOrderNumber

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

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

7.1.3.16 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.

7.1.3.17 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).

7.1.3.18 premiumServiceStatus

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

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

7.1.3.19 premiumSubscriptionNumber

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

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

7.1.3.20 unitDiscount

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

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

7.1.3.21 unitPrice

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

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

7.1.3.22 updated

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

The date any modification where made to this record.

7.1.3.23 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.

7.1.3.24 uploadLimitNextMonth

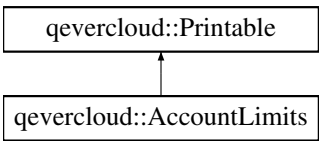
```
Optional< qint64 > qevercloud::Accounting::uploadLimitNextMonth
```

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::AccountLimits Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::AccountLimits:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const AccountLimits &other) const
- bool operator!= (const AccountLimits &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > userMailLimitDaily
- Optional< qint64 > noteSizeMax
- Optional< qint64 > resourceSizeMax
- Optional< qint32 > userLinkedNotebookMax
- Optional< qint64 > uploadLimit
- Optional< qint32 > userNoteCountMax
- Optional< qint32 > userNotebookCountMax
- Optional< qint32 > userTagCountMax
- Optional< qint32 > noteTagCountMax
- Optional< qint32 > userSavedSearchesMax
- Optional< qint32 > noteResourceCountMax

7.2.1 Detailed Description

This structure is used to provide account limits that are in effect for this user.

7.2.2 Member Function Documentation

7.2.2.1 operator"!=()

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

7.2.2.2 operator==()

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

7.2.2.3 print()

```
virtual void qevercloud::AccountLimits::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.2.3 Member Data Documentation

7.2.3.1 localData

```
EverCloudLocalData qevercloud::AccountLimits::localData
```

See the declaration of EverCloudLocalData for details

7.2.3.2 noteResourceCountMax

```
Optional< qint32 > qevercloud::AccountLimits::noteResourceCountMax
```

The maximum number of Resources per Note

7.2.3.3 noteSizeMax

```
Optional< qint64 > qevercloud::AccountLimits::noteSizeMax
```

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

7.2.3.4 noteTagCountMax

```
Optional< qint32 > qevercloud::AccountLimits::noteTagCountMax
```

Maximum number of Tags per Note

7.2.3.5 resourceSizeMax

```
Optional< qint64 > qevercloud::AccountLimits::resourceSizeMax
```

Maximum size of a resource, in bytes

7.2.3.6 uploadLimit

```
Optional< qint64 > qevercloud::AccountLimits::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.

7.2.3.7 userLinkedNotebookMax

```
Optional< qint32 > qevercloud::AccountLimits::userLinkedNotebookMax
```

Maximum number of linked notebooks per account.

7.2.3.8 userMailLimitDaily

```
Optional< qint32 > qevercloud::AccountLimits::userMailLimitDaily
```

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

7.2.3.9 userNotebookCountMax

```
Optional< qint32 > qevercloud::AccountLimits::userNotebookCountMax
```

Maximum number of Notebooks per user

7.2.3.10 userNoteCountMax

```
Optional< qint32 > qevercloud::AccountLimits::userNoteCountMax
```

Maximum number of Notes per user

7.2.3.11 userSavedSearchesMax

```
Optional< qint32 > qevercloud::AccountLimits::userSavedSearchesMax
```

Maximum number of SavedSearches per account

7.2.3.12 userTagCountMax

```
Optional< qint32 > qevercloud::AccountLimits::userTagCountMax
```

Maximum number of Tags per account

7.3 qevercloud::IDurableService::AsyncRequest Struct Reference

```
#include <DurableService.h>
```

Public Member Functions

- AsyncRequest (const char *name, QString description, AsyncServiceCall &&call)

Public Attributes

- const char * m_name
- QString m_description
- AsyncServiceCall m_call

7.3.1 Constructor & Destructor Documentation

7.3.1.1 AsyncRequest()

```
qevercloud::IDurableService::AsyncRequest::AsyncRequest (
            const char * name,
            QString description,
            AsyncServiceCall && call )  [inline]
```

7.3.2 Member Data Documentation

7.3.2.1 m_call

```
AsyncServiceCall qevercloud::IDurableService::AsyncRequest::m_call
```

7.3.2.2 m_description

```
QString qevercloud::IDurableService::AsyncRequest::m_description
```

7.3.2.3 m_name

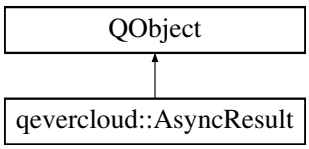
```
const char* qevercloud::IDurableService::AsyncRequest::m_name
```

7.4 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, EverCloudExceptionDataPtr error, IRequestContextPtr ctx)

  Emitted upon asynchronous call completition.

Public Member Functions

- AsyncResult (QString url, QByteArray postData, IRequestContextPtr ctx, ReadFunctionType read↩ Function=AsyncResult::asIs, bool autoDelete=true, QObject ∗parent=nullptr)
- AsyncResult (QNetworkRequest request, QByteArray postData, IRequestContextPtr ctx, ReadFunctionType readFunction=AsyncResult::asIs, bool autoDelete=true, QObject ∗parent=nullptr)
- AsyncResult (QVariant result, EverCloudExceptionDataPtr error, IRequestContextPtr ctx, bool auto↩ Delete=true, QObject ∗parent=nullptr)
- ∼AsyncResult ()
- bool waitForFinished (int timeout=-1)

  Wait for asynchronous operation to complete.

Static Public Member Functions

- static QVariant asIs (QByteArray replyData)

Friends

- class DurableService

7.4.1 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,
                     EverCloudExceptionDataPtr error,
                     IRequestContextPtr ctx)
                 {
                     if (error) {
                         // do something in case of an error
                     }
                     else {
                         Note note = result.value<Note>();
                         // process returned result
                     }
                 });
```

7.4.2 Member Typedef Documentation

7.4.2.1 ReadFunctionType

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

7.4.3 Constructor & Destructor Documentation

7.4.3.1 AsyncResult() [1/3]

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

7.4.3.2 AsyncResult() [2/3]

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

7.4.3.3 AsyncResult() [3/3]

```
qevercloud::AsyncResult::AsyncResult (
            QVariant result,
            EverCloudExceptionDataPtr error,
            IRequestContextPtr ctx,
            bool autoDelete = true,
            QObject * parent = nullptr )
```

Constructor accepting already prepared value and/or exception, for use in tests

7.4.3.4 ~AsyncResult()

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

7.4.4 Member Function Documentation

7.4.4.1 asIs()

```
static QVariant qevercloud::AsyncResult::asIs (
            QByteArray replyData )  [static]
```

7.4.4.2 finished

```
void qevercloud::AsyncResult::finished (
            QVariant result,
            EverCloudExceptionDataPtr error,
            IRequestContextPtr ctx )  [signal]
```

Emitted upon asynchronous call completition.

Parameters

result	Request result
error	Non-nullptr in case of an error. See EverCloudExceptionData for more details
ctx	Request context used to make the request

AsyncResult deletes itself after emitting this signal (if autoDelete parameter passed to its constructor was set to true). You don't have to manage it's lifetime explicitly.

7.4.4.3 waitForFinished()

```
bool qevercloud::AsyncResult::waitForFinished (
            int timeout = -1 )
```

Wait for asynchronous operation to complete.

Parameters

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

Returns

true if finished successfully, false in case of the timeout

7.4.5 Friends And Related Function Documentation

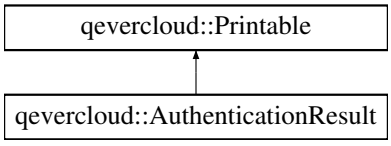
7.4.5.1 DurableService

```
friend class DurableService  [friend]
```

7.5 qevercloud::AuthenticationResult Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::AuthenticationResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const AuthenticationResult &other) const
- bool operator!= (const AuthenticationResult &other) const

Public Attributes

- EverCloudLocalData localData
- Timestamp currentTime = 0
- QString authenticationToken
- Timestamp expiration = 0
- Optional< User > user
- Optional< PublicUserInfo > publicUserInfo
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix
- Optional< bool > secondFactorRequired
- Optional< QString > secondFactorDeliveryHint
- Optional< UserUrls > urls

7.5.1 Detailed Description

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

7.5.2 Member Function Documentation

7.5.2.1 operator"!=()

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

7.5.2.2 operator==()

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

7.5.2.3 print()

```
virtual void qevercloud::AuthenticationResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.5.3 Member Data Documentation

7.5.3.1 authenticationToken

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

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

7.5.3.2 currentTime

```
Timestamp qevercloud::AuthenticationResult::currentTime = 0
```

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

7.5.3.3 expiration

```
Timestamp qevercloud::AuthenticationResult::expiration = 0
```

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.

7.5.3.4 localData

```
EverCloudLocalData qevercloud::AuthenticationResult::localData
```

See the declaration of EverCloudLocalData for details

7.5.3.5 noteStoreUrl

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

DEPRECATED - Client applications should use urls.noteStoreUrl.

7.5.3.6 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.

7.5.3.7 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.

7.5.3.8 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.

7.5.3.9 urls

```
Optional< UserUrls > qevercloud::AuthenticationResult::urls
```

This structure will contain all of the URLs that clients need to make requests to the Evernote service on behalf of the authenticated User.

7.5.3.10 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.

7.5.3.11 webApiUrlPrefix

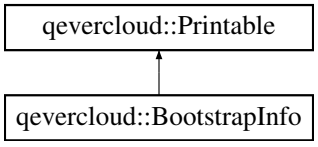
```
Optional< QString > qevercloud::AuthenticationResult::webApiUrlPrefix
```

DEPRECATED - Client applications should use urls.webApiUrlPrefix.

7.6 qevercloud::BootstrapInfo Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::BootstrapInfo:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BootstrapInfo &other) const
- bool operator!= (const BootstrapInfo &other) const

Public Attributes

- EverCloudLocalData localData
- QList< BootstrapProfile > profiles

7.6.1 Detailed Description

This structure describes a collection of bootstrap profiles.

7.6.2 Member Function Documentation

7.6.2.1 operator"!=()

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

7.6.2.2 operator==()

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

7.6.2.3 print()

```
virtual void qevercloud::BootstrapInfo::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.6.3 Member Data Documentation

7.6.3.1 localData

```
EverCloudLocalData qevercloud::BootstrapInfo::localData
```

See the declaration of EverCloudLocalData for details

7.6.3.2 profiles

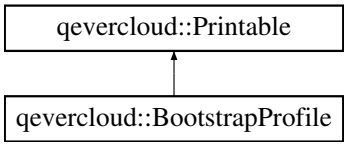
```
QList< BootstrapProfile > qevercloud::BootstrapInfo::profiles
```

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

7.7 qevercloud::BootstrapProfile Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::BootstrapProfile:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BootstrapProfile &other) const
- bool operator!= (const BootstrapProfile &other) const

Public Attributes

- EverCloudLocalData localData
- QString name
- BootstrapSettings settings

7.7.1 Detailed Description

This structure describes a collection of bootstrap settings.

7.7.2 Member Function Documentation

7.7.2.1 operator"!=()

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

7.7.2.2 operator==()

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

7.7.2.3 print()

```
virtual void qevercloud::BootstrapProfile::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.7.3 Member Data Documentation

7.7.3.1 localData

```
EverCloudLocalData qevercloud::BootstrapProfile::localData
```

See the declaration of EverCloudLocalData for details

7.7.3.2 name

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

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

7.7.3.3 settings

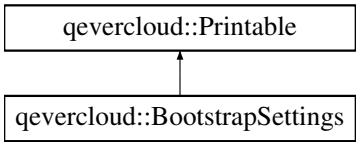
```
BootstrapSettings qevercloud::BootstrapProfile::settings
```

The settings for this profile.

7.8 qevercloud::BootstrapSettings Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::BootstrapSettings:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BootstrapSettings &other) const
- bool operator!= (const BootstrapSettings &other) const

Public Attributes

- EverCloudLocalData localData
- 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
- Optional< bool > enableGoogle

7.8.1 Detailed Description

This structure describes a collection of bootstrap settings.

7.8.2 Member Function Documentation

7.8.2.1 operator"!=()

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

7.8.2.2 operator==()

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

7.8.2.3 print()

```
virtual void qevercloud::BootstrapSettings::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.8.3 Member Data Documentation

7.8.3.1 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.

7.8.3.2 enableFacebookSharing

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

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

7.8.3.3 enableGiftSubscriptions

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

Whether the client application should enable gift subscriptions.

7.8.3.4 enableGoogle

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

Whether the client application should enable authentication with Google, for example to allow integration with a user's Gmail contacts.

7.8.3.5 enableLinkedInSharing

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

NOT DOCUMENTED

7.8.3.6 enablePublicNotebooks

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

NOT DOCUMENTED

7.8.3.7 enableSharedNotebooks

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

Whether the client application should enable shared notebooks.

7.8.3.8 enableSingleNoteSharing

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

Whether the client application should enable single note sharing.

7.8.3.9 enableSponsoredAccounts

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

Whether the client application should enable sponsored accounts.

7.8.3.10 enableSupportTickets

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

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

7.8.3.11 enableTwitterSharing

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

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

7.8.3.12 localData

```
EverCloudLocalData qevercloud::BootstrapSettings::localData
```

See the declaration of EverCloudLocalData for details

7.8.3.13 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.

7.8.3.14 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".

7.8.3.15 supportUrl

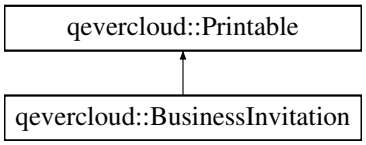
```
QString qevercloud::BootstrapSettings::supportUrl
```

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

7.9 qevercloud::BusinessInvitation Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::BusinessInvitation:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BusinessInvitation &other) const
- bool operator!= (const BusinessInvitation &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > businessId
- Optional< QString > email
- Optional< BusinessUserRole > role
- Optional< BusinessInvitationStatus > status
- Optional< UserID > requesterId
- Optional< bool > fromWorkChat
- Optional< Timestamp > created
- Optional< Timestamp > mostRecentReminder

7.9.1 Detailed Description

A structure describing an invitation to join a business account.

7.9.2 Member Function Documentation

7.9.2.1 operator"!=()

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

7.9.2.2 operator==()

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

7.9.2.3 print()

```
virtual void qevercloud::BusinessInvitation::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.9.3 Member Data Documentation

7.9.3.1 businessId

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

The ID of the business to which the invitation grants access.

7.9.3.2 created

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

The timestamp at which this invitation was created.

7.9.3.3 email

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

The email address that was invited to join the business.

7.9.3.4 fromWorkChat

```
Optional< bool > qevercloud::BusinessInvitation::fromWorkChat
```

If this invitation was created implicitly via a WorkChat, this field will be true.

7.9.3.5 localData

```
EverCloudLocalData qevercloud::BusinessInvitation::localData
```

See the declaration of EverCloudLocalData for details

7.9.3.6 mostRecentReminder

```
Optional< Timestamp > qevercloud::BusinessInvitation::mostRecentReminder
```

The timestamp at which the most recent reminder was sent.

7.9.3.7 requesterId

```
Optional< UserID > qevercloud::BusinessInvitation::requesterId
```

For invitations that were initially requested by a non-admin member of the business, this field specifies the user ID of the requestor. For all other invitations, this field will be unset.

7.9.3.8 role

```
Optional< BusinessUserRole > qevercloud::BusinessInvitation::role
```

The role to grant the user after the invitation is accepted.

7.9.3.9 status

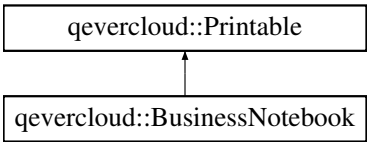
```
Optional< BusinessInvitationStatus > qevercloud::BusinessInvitation::status
```

The status of the invitation.

7.10 qevercloud::BusinessNotebook Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::BusinessNotebook:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BusinessNotebook &other) const
- bool operator!= (const BusinessNotebook &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > notebookDescription
- Optional< SharedNotebookPrivilegeLevel > privilege
- Optional< bool > recommended

7.10.1 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.

7.10.2 Member Function Documentation

7.10.2.1 operator"!=()

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

7.10.2.2 operator==()

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

7.10.2.3 print()

```
virtual void qevercloud::BusinessNotebook::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.10.3 Member Data Documentation

7.10.3.1 localData

```
EverCloudLocalData qevercloud::BusinessNotebook::localData
```

See the declaration of EverCloudLocalData for details

7.10.3.2 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

7.10.3.3 privilege

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

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

7.10.3.4 recommended

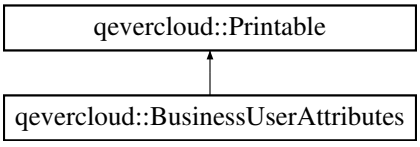
```
Optional< bool > qevercloud::BusinessNotebook::recommended
```

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

7.11 qevercloud::BusinessUserAttributes Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::BusinessUserAttributes:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BusinessUserAttributes &other) const
- bool operator!= (const BusinessUserAttributes &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > title
- Optional< QString > location
- Optional< QString > department
- Optional< QString > mobilePhone
- Optional< QString > linkedInProfileUrl
- Optional< QString > workPhone
- Optional< Timestamp > companyStartDate

7.11.1 Detailed Description

A structure holding the optional attributes associated with users in a business.

7.11.2 Member Function Documentation

7.11.2.1 operator"!=()

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

7.11.2.2 operator==()

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

7.11.2.3 print()

```
virtual void qevercloud::BusinessUserAttributes::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.11.3 Member Data Documentation

7.11.3.1 companyStartDate

```
Optional< Timestamp > qevercloud::BusinessUserAttributes::companyStartDate
```

The date on which the user started working at their company.

7.11.3.2 department

```
Optional< QString > qevercloud::BusinessUserAttributes::department
```

Free form text of the department this user belongs to.

7.11.3.3 linkedInProfileUrl

```
Optional< QString > qevercloud::BusinessUserAttributes::linkedInProfileUrl
```

URL to user's public LinkedIn profile page. This should only contain the portion relative to the base LinkedIn URL. For example: "/pub/john-smith/".

7.11.3.4 localData

```
EverCloudLocalData qevercloud::BusinessUserAttributes::localData
```

See the declaration of EverCloudLocalData for details

7.11.3.5 location

```
Optional< QString > qevercloud::BusinessUserAttributes::location
```

City, State (for US) or City / Province for other countries

7.11.3.6 mobilePhone

```
Optional< QString > qevercloud::BusinessUserAttributes::mobilePhone
```

User's mobile phone number. Stored as plain text without any formatting.

7.11.3.7 title

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

Free form text of this user's title in the business

7.11.3.8 workPhone

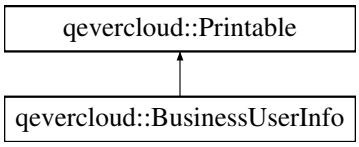
```
Optional< QString > qevercloud::BusinessUserAttributes::workPhone
```

User's work phone number. Stored as plain text without any formatting.

7.12 qevercloud::BusinessUserInfo Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::BusinessUserInfo:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const BusinessUserInfo &other) const
- bool operator!= (const BusinessUserInfo &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > businessId
- Optional< QString > businessName
- Optional< BusinessUserRole > role
- Optional< QString > email
- Optional< Timestamp > updated

7.12.1 Detailed Description

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

7.12.2 Member Function Documentation

7.12.2.1 operator"!=()

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

7.12.2.2 operator==()

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

7.12.2.3 print()

```
virtual void qevercloud::BusinessUserInfo::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.12.3 Member Data Documentation

7.12.3.1 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.

7.12.3.2 businessName

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

NOT DOCUMENTED

7.12.3.3 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.

7.12.3.4 localData

```
EverCloudLocalData qevercloud::BusinessUserInfo::localData
```

See the declaration of EverCloudLocalData for details

7.12.3.5 role

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

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

7.12.3.6 updated

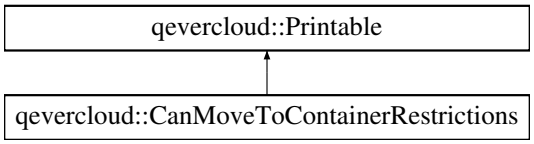
```
Optional< Timestamp > qevercloud::BusinessUserInfo::updated
```

Last time the business user or business user attributes were updated.

7.13 qevercloud::CanMoveToContainerRestrictions Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::CanMoveToContainerRestrictions:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const CanMoveToContainerRestrictions &other) const
- bool operator!= (const CanMoveToContainerRestrictions &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< CanMoveToContainerStatus > canMoveToContainer

7.13.1 Detailed Description

Specifies if the client can move a Notebook to a Workspace.

7.13.2 Member Function Documentation

7.13.2.1 operator"!=()

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

7.13.2.2 operator==()

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

7.13.2.3 print()

```
virtual void qevercloud::CanMoveToContainerRestrictions::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.13.3 Member Data Documentation

7.13.3.1 canMoveToContainer

```
Optional< CanMoveToContainerStatus > qevercloud::CanMoveToContainerRestrictions::canMoveTo↩
Container
```

NOT DOCUMENTED

7.13.3.2 localData

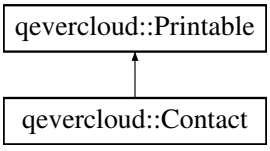
```
EverCloudLocalData qevercloud::CanMoveToContainerRestrictions::localData
```

See the declaration of EverCloudLocalData for details

7.14 qevercloud::Contact Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Contact:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Contact &other) const
- bool operator!= (const Contact &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > name
- Optional< QString > id
- Optional< ContactType > type
- Optional< QString > photoUrl
- Optional< Timestamp > photoLastUpdated
- Optional< QByteArray > messagingPermit
- Optional< Timestamp > messagingPermitExpires

7.14.1 Detailed Description

A structure that represents contact information. Note this does not necessarily correspond to an Evernote user.

7.14.2 Member Function Documentation

7.14.2.1 operator"!=()

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

7.14.2.2 operator==()

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

7.14.2.3 print()

```
virtual void qevercloud::Contact::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.14.3 Member Data Documentation

7.14.3.1 id

```
Optional< QString > qevercloud::Contact::id
```

A unique identifier for this ContactType.

7.14.3.2 localData

```
EverCloudLocalData qevercloud::Contact::localData
```

See the declaration of EverCloudLocalData for details

7.14.3.3 messagingPermit

```
Optional< QByteArray > qevercloud::Contact::messagingPermit
```

This field will only be filled by the service when it is giving a Contact record to a client, and that client does not normally have enough permission to send a new message to the person represented through this Contact. In that case, this whole Contact record could be used to send a new Message to the Contact, and the service will inspect this permit to confirm that operation was allowed.

7.14.3.4 messagingPermitExpires

```
Optional< Timestamp > qevercloud::Contact::messagingPermitExpires
```

If this field is set, then this (whole) Contact record may be used in calls to sendMessage until this time. After that time, those calls may be rejected by the service if the caller does not have direct permission to initiate a message with the represented Evernote user.

7.14.3.5 name

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

The displayable name of this contact. This field is filled in by the service and is read-only to clients.

7.14.3.6 photoLastUpdated

```
Optional< Timestamp > qevercloud::Contact::photoLastUpdated
```

timestamp when the profile photo at 'photoUrl' was last updated. This field will be null if the user has never set a profile photo. This field is filled in by the service and is read-only to clients.

7.14.3.7 photoUrl

```
Optional< QString > qevercloud::Contact::photoUrl
```

A URL of a profile photo representing this Contact. This field is filled in by the service and is read-only to clients.

7.14.3.8 type

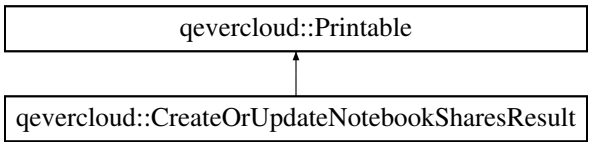
```
Optional< ContactType > qevercloud::Contact::type
```

What service does this contact come from?

7.15 qevercloud::CreateOrUpdateNotebookSharesResult Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::CreateOrUpdateNotebookSharesResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const CreateOrUpdateNotebookSharesResult &other) const
- bool operator!= (const CreateOrUpdateNotebookSharesResult &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > updateSequenceNum
- Optional< QList< SharedNotebook > > matchingShares

Properties

- Optional QList

7.15.1 Detailed Description

A structure containing the results of a call to createOrUpdateNotebookShares.

7.15.2 Member Function Documentation

7.15.2.1 operator"!=()

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

7.15.2.2 operator==()

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

7.15.2.3 print()

```
virtual void qevercloud::CreateOrUpdateNotebookSharesResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.15.3 Member Data Documentation

7.15.3.1 localData

```
EverCloudLocalData qevercloud::CreateOrUpdateNotebookSharesResult::localData
```

See the declaration of EverCloudLocalData for details

7.15.3.2 matchingShares

```
Optional<QList<SharedNotebook> > qevercloud::CreateOrUpdateNotebookSharesResult::matching↩
Shares
```

A list of SharedNotebook records that match the desired recipients. These records may have been either created or updated by the call to createOrUpdateNotebookShares, or they may have been at the desired privilege privilege level prior to the call.

7.15.3.3 updateSequenceNum

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

The USN of the notebook after the call.

7.15.4 Property Documentation

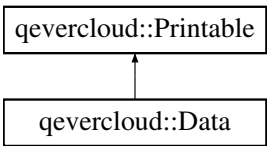
7.15.4.1 QList

```
Optional qevercloud::CreateOrUpdateNotebookSharesResult::QList
```

7.16 qevercloud::Data Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Data:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Data &other) const
- bool operator!= (const Data &other) const

Public Attributes

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

7.16.1 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.

7.16.2 Member Function Documentation

7.16.2.1 operator"!=()

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

7.16.2.2 operator==()

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

7.16.2.3 print()

```
virtual void qevercloud::Data::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.16.3 Member Data Documentation

7.16.3.1 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.

7.16.3.2 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)

7.16.3.3 localData

```
EverCloudLocalData qevercloud::Data::localData
```

See the declaration of EverCloudLocalData for details

7.16.3.4 size

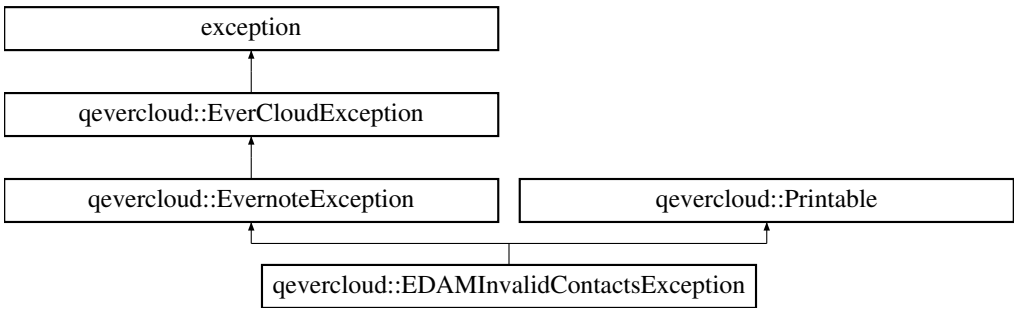
```
Optional< qint32 > qevercloud::Data::size
```

The length, in bytes, of the data body.

7.17 qevercloud::EDAMInvalidContactsException Class Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::EDAMInvalidContactsException:



Public Member Functions

- EDAMInvalidContactsException ()
- virtual ~EDAMInvalidContactsException () noexcept override
- EDAMInvalidContactsException (const EDAMInvalidContactsException &other)
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override
- virtual void print (QTextStream &strm) const override
- bool operator== (const EDAMInvalidContactsException &other) const
- bool operator!= (const EDAMInvalidContactsException &other) const

Public Attributes

- QList< Contact > contacts
- Optional< QString > parameter
- Optional< QList< EDAMInvalidContactReason > > reasons

Properties

- Optional QList

Additional Inherited Members

7.17.1 Detailed Description

An exception thrown when the provided Contacts fail validation. For instance, email domains could be invalid, phone numbers might not be valid for SMS, etc.

We will not provide individual reasons for each Contact's validation failure. The presence of the Contact in this exception means that the user must figure out how to take appropriate action to fix this Contact.

contacts The list of Contacts that are considered invalid by the service

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

reasons If supplied, the list of reasons why the server considered a contact invalid, matching, in order, the list returned in the contacts field.

7.17.2 Constructor & Destructor Documentation

7.17.2.1 EDAMInvalidContactsException() [1/2]

```
qevercloud::EDAMInvalidContactsException::EDAMInvalidContactsException ( )
```

7.17.2.2 ~EDAMInvalidContactsException()

```
virtual qevercloud::EDAMInvalidContactsException::~EDAMInvalidContactsException ( )  [override],
[virtual], [noexcept]
```

7.17.2.3 EDAMInvalidContactsException() [2/2]

```
qevercloud::EDAMInvalidContactsException::EDAMInvalidContactsException (
            const EDAMInvalidContactsException & other )
```

7.17.3 Member Function Documentation

7.17.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::EDAMInvalidContactsException::exceptionData ( )
const  [override], [virtual]
```

Reimplemented from qevercloud::EvernoteException.

7.17.3.2 operator"!=()

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

7.17.3.3 operator==()

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

7.17.3.4 print()

```
virtual void qevercloud::EDAMInvalidContactsException::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.17.3.5 what()

```
const char* qevercloud::EDAMInvalidContactsException::what ( ) const  [override], [virtual],
[noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.17.4 Member Data Documentation

7.17.4.1 contacts

```
QList< Contact > qevercloud::EDAMInvalidContactsException::contacts
```

7.17.4.2 parameter

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

7.17.4.3 reasons

```
Optional<QList<EDAMInvalidContactReason> > qevercloud::EDAMInvalidContactsException::reasons
```

7.17.5 Property Documentation

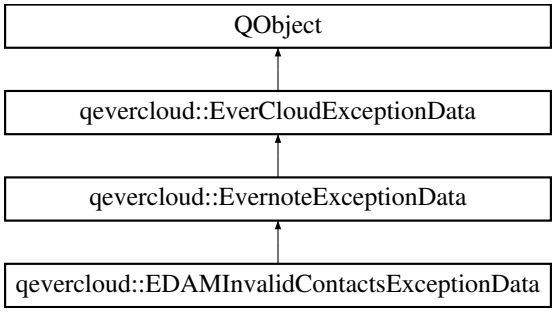
7.17.5.1 QList

```
Optional qevercloud::EDAMInvalidContactsException::QList
```

7.18 qevercloud::EDAMInvalidContactsExceptionData Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::EDAMInvalidContactsExceptionData:



Public Member Functions

- EDAMInvalidContactsExceptionData (QList< Contact > contacts, Optional< QString > parameter, Optional< QList< EDAMInvalidContactReason > > reasons)
- virtual void throwException () const override

Protected Attributes

- QList< Contact > m_contacts
- Optional< QString > m_parameter
- Optional< QList< EDAMInvalidContactReason > > m_reasons

Additional Inherited Members

7.18.1 Detailed Description

Asynchronous API counterpart of EDAMInvalidContactsException. See EverCloudExceptionData for more details.

7.18.2 Constructor & Destructor Documentation

7.18.2.1 EDAMInvalidContactsExceptionData()

```
qevercloud::EDAMInvalidContactsExceptionData::EDAMInvalidContactsExceptionData (
            QList< Contact > contacts,
            Optional< QString > parameter,
            Optional< QList< EDAMInvalidContactReason > > reasons )  [explicit]
```

7.18.3 Member Function Documentation

7.18.3.1 throwException()

```
virtual void qevercloud::EDAMInvalidContactsExceptionData::throwException ( ) const  [override],
[virtual]
```

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

Reimplemented from qevercloud::EvernoteExceptionData.

7.18.4 Member Data Documentation

7.18.4.1 m_contacts

```
QList<Contact> qevercloud::EDAMInvalidContactsExceptionData::m_contacts  [protected]
```

7.18.4.2 m_parameter

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

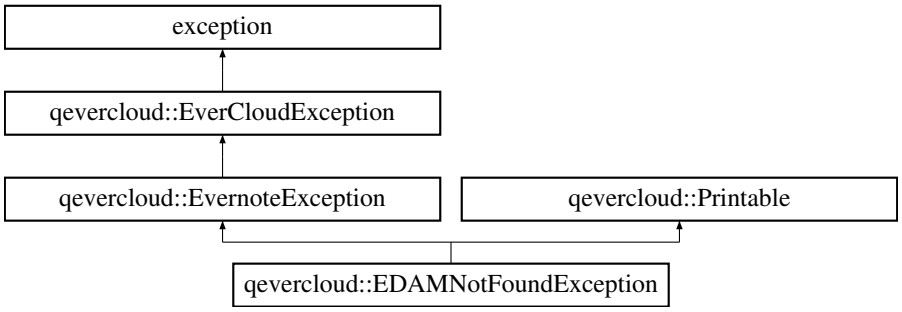
7.18.4.3 m_reasons

```
Optional<QList<EDAMInvalidContactReason> > qevercloud::EDAMInvalidContactsExceptionData::m_↩
reasons  [protected]
```

7.19 qevercloud::EDAMNotFoundException Class Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::EDAMNotFoundException:



Public Member Functions

- EDAMNotFoundException ()
- virtual ~EDAMNotFoundException () noexcept override
- EDAMNotFoundException (const EDAMNotFoundException &other)
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override
- virtual void print (QTextStream &strm) const override
- bool operator== (const EDAMNotFoundException &other) const
- bool operator!= (const EDAMNotFoundException &other) const

Public Attributes

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

Additional Inherited Members

7.19.1 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.

7.19.2 Constructor & Destructor Documentation

7.19.2.1 EDAMNotFoundException() [1/2]

```
qevercloud::EDAMNotFoundException::EDAMNotFoundException ( )
```

7.19.2.2 ~EDAMNotFoundException()

```
virtual qevercloud::EDAMNotFoundException::~EDAMNotFoundException ( )  [override], [virtual],
[noexcept]
```

7.19.2.3 EDAMNotFoundException() [2/2]

```
qevercloud::EDAMNotFoundException::EDAMNotFoundException (
            const EDAMNotFoundException & other )
```

7.19.3 Member Function Documentation

7.19.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::EDAMNotFoundException::exceptionData ( ) const
[override], [virtual]
```

Reimplemented from qevercloud::EvernoteException.

7.19.3.2 operator"!=()

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

7.19.3.3 operator==()

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

7.19.3.4 print()

```
virtual void qevercloud::EDAMNotFoundException::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.19.3.5 what()

```
const char* qevercloud::EDAMNotFoundException::what ( ) const  [override], [virtual], [noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.19.4 Member Data Documentation

7.19.4.1 identifier

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

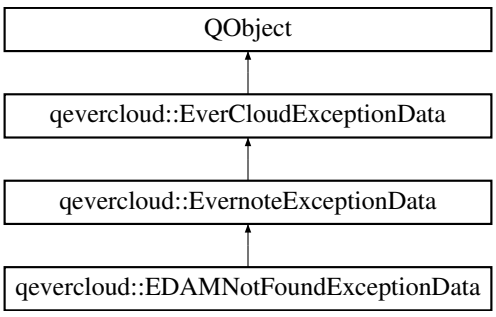
7.19.4.2 key

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

7.20 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 override

Protected Attributes

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

Additional Inherited Members

7.20.1 Detailed Description

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

7.20.2 Constructor & Destructor Documentation

7.20.2.1 EDAMNotFoundExceptionData()

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

7.20.3 Member Function Documentation

7.20.3.1 throwException()

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

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

Reimplemented from qevercloud::EvernoteExceptionData.

7.20.4 Member Data Documentation

7.20.4.1 m_identifier

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

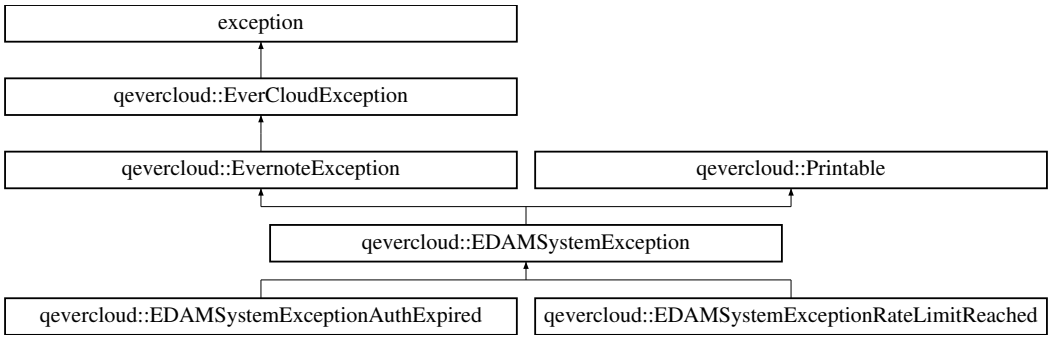
7.20.4.2 m_key

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

7.21 qevercloud::EDAMSystemException Class Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::EDAMSystemException:



Public Member Functions

- EDAMSystemException ()
- virtual ~EDAMSystemException () noexcept override
- EDAMSystemException (const EDAMSystemException &other)
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override
- virtual void print (QTextStream &strm) const override
- bool operator== (const EDAMSystemException &other) const
- bool operator!= (const EDAMSystemException &other) const

Public Attributes

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

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 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,

7.21.2 Constructor & Destructor Documentation

7.21.2.1 EDAMSystemException() [1/2]

```
qevercloud::EDAMSystemException::EDAMSystemException ( )
```

7.21.2.2 ~EDAMSystemException()

```
virtual qevercloud::EDAMSystemException::~EDAMSystemException ( )  [override], [virtual],
[noexcept]
```

7.21.2.3 EDAMSystemException() [2/2]

```
qevercloud::EDAMSystemException::EDAMSystemException (
            const EDAMSystemException & other )
```

7.21.3 Member Function Documentation

7.21.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::EDAMSystemException::exceptionData ( ) const
[override], [virtual]
```

Reimplemented from qevercloud::EvernoteException.

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

7.21.3.2 operator"!=()

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

7.21.3.3 operator==()

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

7.21.3.4 print()

```
virtual void qevercloud::EDAMSystemException::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.21.3.5 what()

```
const char* qevercloud::EDAMSystemException::what ( ) const  [override], [virtual], [noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.21.4 Member Data Documentation

7.21.4.1 errorCode

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

7.21.4.2 message

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

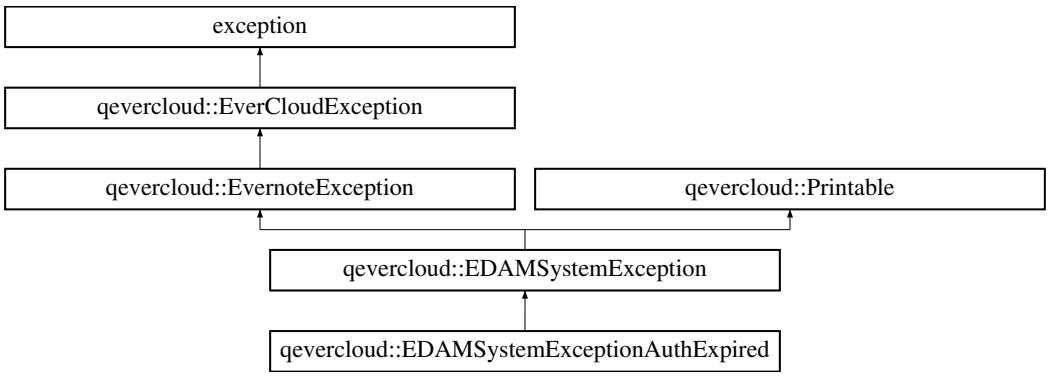
7.21.4.3 rateLimitDuration

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

7.22 qevercloud::EDAMSystemExceptionAuthExpired Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::EDAMSystemExceptionAuthExpired:



Public Member Functions

- virtual EverCloudExceptionDataPtr exceptionData () const override

Additional Inherited Members

7.22.1 Detailed Description

EDAMSystemException for `errorCode = AUTH_EXPIRED`

7.22.2 Member Function Documentation

7.22.2.1 exceptionData()

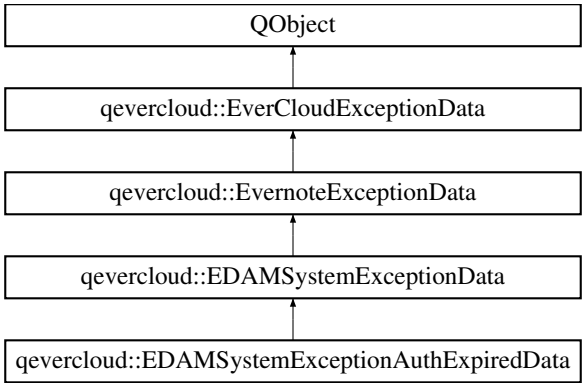
```
virtual EverCloudExceptionDataPtr qevercloud::EDAMSystemExceptionAuthExpired::exceptionData (
) const  [override], [virtual]
```

Reimplemented from qevercloud::EDAMSystemException.

7.23 qevercloud::EDAMSystemExceptionAuthExpiredData Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::EDAMSystemExceptionAuthExpiredData:



Public Member Functions

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

Additional Inherited Members

7.23.1 Detailed Description

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

7.23.2 Constructor & Destructor Documentation

7.23.2.1 EDAMSystemExceptionAuthExpiredData()

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

7.23.3 Member Function Documentation

7.23.3.1 throwException()

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

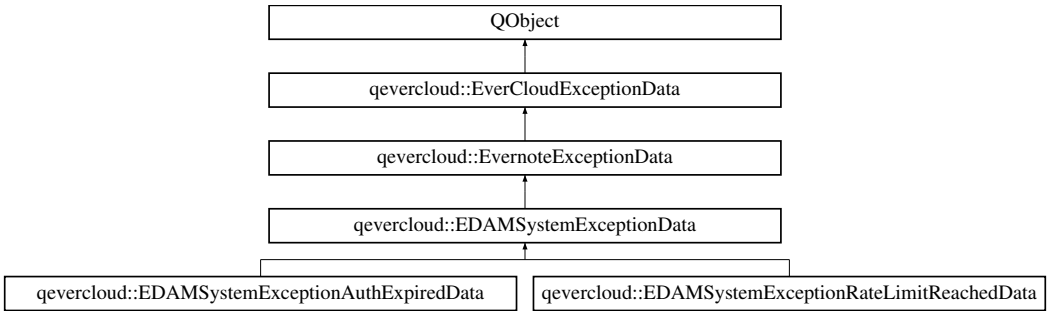
If you want to throw an exception that corresponds to a received EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EDAMSystemExceptionData.

7.24 qevercloud::EDAMSystemExceptionData Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::EDAMSystemExceptionData:



Public Member Functions

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

Protected Attributes

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

Additional Inherited Members

7.24.1 Detailed Description

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

7.24.2 Constructor & Destructor Documentation

7.24.2.1 EDAMSystemExceptionData()

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

7.24.3 Member Function Documentation

7.24.3.1 throwException()

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

If you want to throw an exception that corresponds to a received 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.

7.24.4 Member Data Documentation

7.24.4.1 m_errorCode

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

7.24.4.2 m_message

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

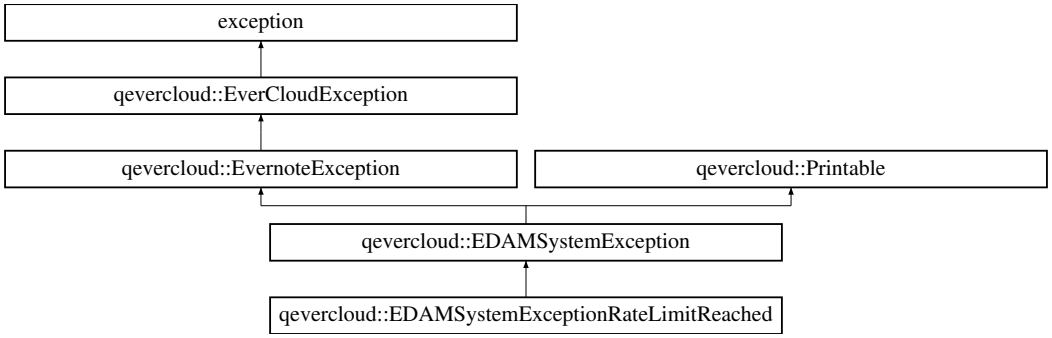
7.24.4.3 m_rateLimitDuration

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

7.25 qevercloud::EDAMSystemExceptionRateLimitReached Class Reference

`#include <Exceptions.h>`

Inheritance diagram for qevercloud::EDAMSystemExceptionRateLimitReached:



Public Member Functions

- virtual EverCloudExceptionDataPtr exceptionData () const override

Additional Inherited Members

7.25.1 Detailed Description

EDAMSystemException for `errorCode = RATE_LIMIT_REACHED`

7.25.2 Member Function Documentation

7.25.2.1 exceptionData()

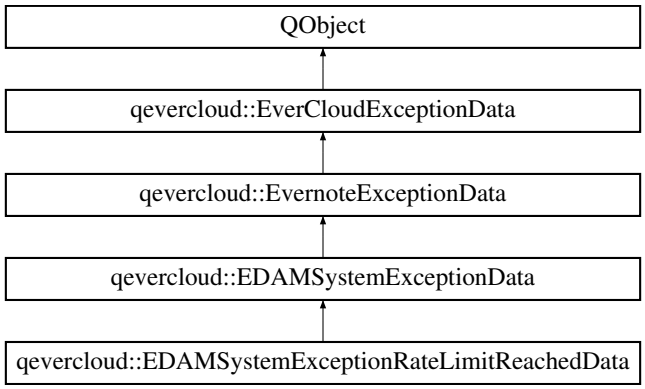
```
virtual EverCloudExceptionDataPtr qevercloud::EDAMSystemExceptionRateLimitReached::exception↩
Data ( ) const  [override], [virtual]
```

Reimplemented from qevercloud::EDAMSystemException.

7.26 qevercloud::EDAMSystemExceptionRateLimitReachedData Class Reference

`#include <Exceptions.h>`

Inheritance diagram for qevercloud::EDAMSystemExceptionRateLimitReachedData:



Public Member Functions

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

Additional Inherited Members

7.26.1 Detailed Description

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

7.26.2 Constructor & Destructor Documentation

7.26.2.1 EDAMSystemExceptionRateLimitReachedData()

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

7.26.3 Member Function Documentation

7.26.3.1 throwException()

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

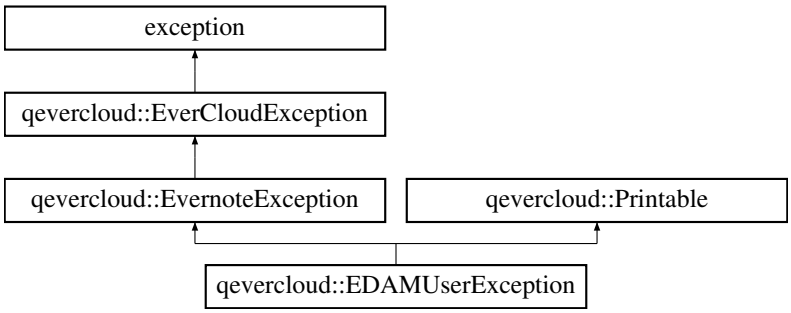
If you want to throw an exception that corresponds to a received EverCloudExceptionData descendant than call this function. Do not use `throw` statement, it's not polymorphic.

Reimplemented from qevercloud::EDAMSystemExceptionData.

7.27 qevercloud::EDAMUserException Class Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::EDAMUserException:



Public Member Functions

- EDAMUserException ()
- virtual ~EDAMUserException () noexcept override
- EDAMUserException (const EDAMUserException &other)
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override
- virtual void print (QTextStream &strm) const override
- bool operator== (const EDAMUserException &other) const
- bool operator!= (const EDAMUserException &other) const

Public Attributes

- EDAMErrorCode errorCode
- Optional< QString > parameter

Additional Inherited Members

7.27.1 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. For some errors (USER_NOT_ASSOCIATED, USER_NOT_REGISTERED, SSO_AUTHENTICATION_REQUIRED), this is the user's email.

7.27.2 Constructor & Destructor Documentation

7.27.2.1 EDAMUserException() [1/2]

```
qevercloud::EDAMUserException::EDAMUserException ( )
```

7.27.2.2 ~EDAMUserException()

```
virtual qevercloud::EDAMUserException::~EDAMUserException ( )  [override], [virtual], [noexcept]
```

7.27.2.3 EDAMUserException() [2/2]

```
qevercloud::EDAMUserException::EDAMUserException (
            const EDAMUserException & other )
```

7.27.3 Member Function Documentation

7.27.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::EDAMUserException::exceptionData ( ) const  [override],
[virtual]
```

Reimplemented from qevercloud::EvernoteException.

7.27.3.2 operator"!=()

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

7.27.3.3 operator==()

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

7.27.3.4 print()

```
virtual void qevercloud::EDAMUserException::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.27.3.5 what()

```
const char* qevercloud::EDAMUserException::what ( ) const  [override], [virtual], [noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.27.4 Member Data Documentation

7.27.4.1 errorCode

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

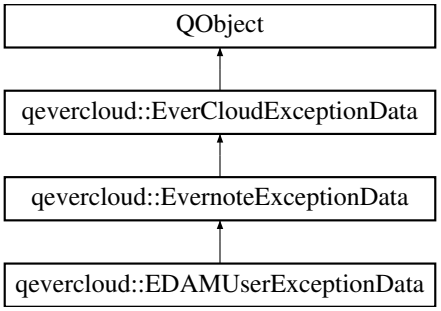
7.27.4.2 parameter

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

7.28 qevercloud::EDAMUserExceptionData Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::EDAMUserExceptionData:



Public Member Functions

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

Protected Attributes

- EDAMErrorCode m_errorCode
- Optional< QString > m_parameter

Additional Inherited Members

7.28.1 Detailed Description

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

7.28.2 Constructor & Destructor Documentation

7.28.2.1 EDAMUserExceptionData()

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

7.28.3 Member Function Documentation

7.28.3.1 throwException()

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

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

Reimplemented from qevercloud::EvernoteExceptionData.

7.28.4 Member Data Documentation

7.28.4.1 m_errorCode

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

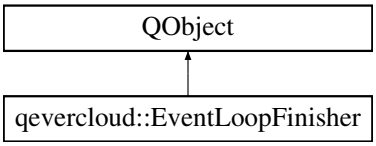
7.28.4.2 m_parameter

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

7.29 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 ()

7.29.1 Constructor & Destructor Documentation

7.29.1.1 EventLoopFinisher()

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

7.29.1.2 ∼EventLoopFinisher()

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

7.29.2 Member Function Documentation

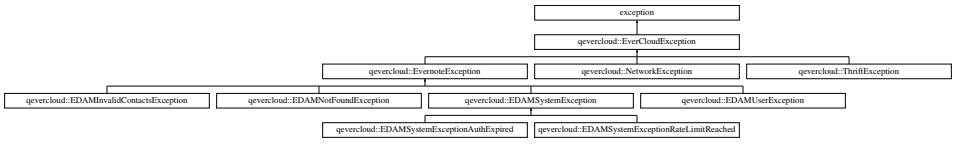
7.29.2.1 stopEventLoop

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

7.30 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)
- virtual ~EverCloudException () noexcept override
- virtual const char * what () const noexcept override
- virtual std::shared_ptr< EverCloudExceptionData > exceptionData () const

Protected Attributes

- QByteArray m_error

7.30.1 Detailed Description

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

7.30.2 Constructor & Destructor Documentation

7.30.2.1 EverCloudException() [1/4]

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

7.30.2.2 EverCloudException() [2/4]

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

7.30.2.3 EverCloudException() [3/4]

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

7.30.2.4 EverCloudException() [4/4]

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

7.30.2.5 ~EverCloudException()

```
virtual qevercloud::EverCloudException::~EverCloudException ( )  [override], [virtual], [noexcept]
```

7.30.3 Member Function Documentation

7.30.3.1 exceptionData()

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

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

7.30.3.2 what()

```
virtual const char* qevercloud::EverCloudException::what ( ) const  [override], [virtual],
[noexcept]
```

Reimplemented in qevercloud::EDAMInvalidContactsException, qevercloud::EDAMNotFoundException, qevercloud::EDAMSystemException, qevercloud::EDAMUserException, qevercloud::ThriftException, and qevercloud::NetworkException.

7.30.4 Member Data Documentation

7.30.4.1 m_error

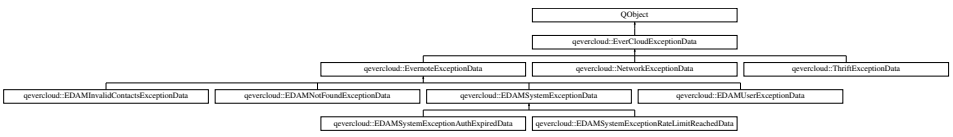
```
QByteArray qevercloud::EverCloudException::m_error  [mutable], [protected]
```

7.31 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

7.31.1 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, EverCloudExceptionData error)
                 {
                     if (!error.isNull())
                     {
                         auto errorNotFound =
                            std::dynamic_pointer_cast<EDAMNotFoundExceptionData>(
                                error);

                         auto errorUser =
                            std::dynamic_pointer_cast<EDAMUserExceptionData>(
                                error);

                         auto errorSystem =
                            std::dynamic_pointer_cast<EDAMSystemExceptionData>(
                                error);

                         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
            }
        });
```

7.31.2 Constructor & Destructor Documentation

7.31.2.1 EverCloudExceptionData()

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

7.31.3 Member Function Documentation

7.31.3.1 throwException()

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

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

Reimplemented in qevercloud::EDAMSystemExceptionAuthExpiredData, qevercloud::EDAMSystemException↩RateLimitReachedData, qevercloud::EDAMInvalidContactsExceptionData, qevercloud::EDAMNotFound↩ExceptionData, qevercloud::EvernoteExceptionData, qevercloud::EDAMSystemExceptionData, qevercloud::E↩DAMUserExceptionData, qevercloud::ThriftExceptionData, and qevercloud::NetworkExceptionData.

7.31.4 Member Data Documentation

7.31.4.1 errorMessage

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

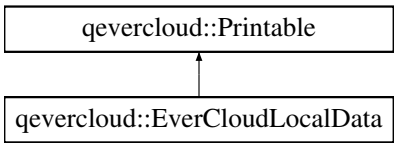
Contains an error message. It's the std::exception::what() counterpart.

7.32 qevercloud::EverCloudLocalData Class Reference

The EverCloudLocalData class contains several data elements which are not synchronized with Evernote service but which are nevertheless useful in applications using QEverCloud to implement feature rich full sync Evernote clients. Values of this class' types are contained within QEverCloud types corresponding to actual Evernote API types.

`#include <Types.h>`

Inheritance diagram for qevercloud::EverCloudLocalData:



Public Types

- using Dict = QHash< QString, QVariant >

Public Member Functions

- EverCloudLocalData ()
- virtual ~EverCloudLocalData () noexcept override
- virtual void print (QTextStream &strm) const override
- bool operator== (const EverCloudLocalData &other) const
- bool operator!= (const EverCloudLocalData &other) const

Public Attributes

- QString id

  id property can be used as a local unique identifier for any data item before it has been synchronized with Evernote and thus before it can be identified using its guid.
- bool dirty = false

  dirty property can be used to keep track which objects have been modified locally and thus need to be synchronized with Evernote service
- bool local = false

  local property can be used to keep track which data items are meant to be local only and thus never be synchronized with Evernote service
- bool favorited = false

  favorited property can be used to keep track which data items were favorited in the client. Unfortunately, Evernote has never provided a way to synchronize such property between different clients
- QHash< QString, QVariant > dict

  dict can be used for storage of any other auxiliary values associated with objects of QEverCloud types

Properties

- Dict dict

7.32.1 Detailed Description

The EverCloudLocalData class contains several data elements which are not synchronized with Evernote service but which are nevertheless useful in applications using QEverCloud to implement feature rich full sync Evernote clients. Values of this class' types are contained within QEverCloud types corresponding to actual Evernote API types.

7.32.2 Member Typedef Documentation

7.32.2.1 Dict

```
using qevercloud::EverCloudLocalData::Dict = QHash<QString, QVariant>
```

7.32.3 Constructor & Destructor Documentation

7.32.3.1 EverCloudLocalData()

```
qevercloud::EverCloudLocalData::EverCloudLocalData ( )
```

7.32.3.2 ~EverCloudLocalData()

```
virtual qevercloud::EverCloudLocalData::~EverCloudLocalData ( )  [override], [virtual], [noexcept]
```

7.32.4 Member Function Documentation

7.32.4.1 operator"!=()

```
bool qevercloud::EverCloudLocalData::operator!= (
            const EverCloudLocalData & other ) const
```

7.32.4.2 operator==()

```
bool qevercloud::EverCloudLocalData::operator== (
            const EverCloudLocalData & other ) const
```

7.32.4.3 print()

```
virtual void qevercloud::EverCloudLocalData::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.32.5 Member Data Documentation

7.32.5.1 dict

```
QHash<QString, QVariant> qevercloud::EverCloudLocalData::dict
```

dict can be used for storage of any other auxiliary values associated with objects of QEverCloud types

7.32.5.2 dirty

```
bool qevercloud::EverCloudLocalData::dirty = false
```

dirty property can be used to keep track which objects have been modified locally and thus need to be synchronized with Evernote service

7.32.5.3 favorited

```
bool qevercloud::EverCloudLocalData::favorited = false
```

favorited property can be used to keep track which data items were favorited in the client. Unfortunately, Evernote has never provided a way to synchronize such property between different clients

7.32.5.4 id

```
QString qevercloud::EverCloudLocalData::id
```

id property can be used as a local unique identifier for any data item before it has been synchronized with Evernote and thus before it can be identified using its guid.

id property is generated automatically on EverCloudLocalData construction for convenience but can be overridden manually

7.32.5.5 local

```
bool qevercloud::EverCloudLocalData::local = false
```

local property can be used to keep track which data items are meant to be local only and thus never be synchronized with Evernote service

7.32.6 Property Documentation

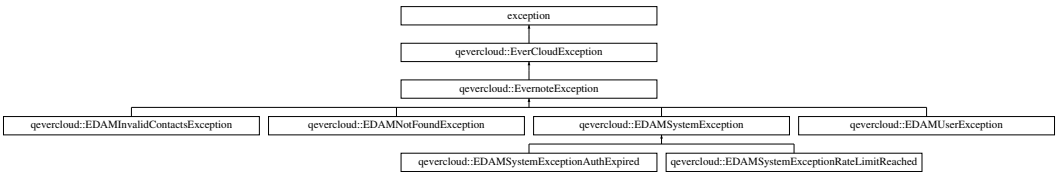
7.32.6.1 dict

```
Dict qevercloud::EverCloudLocalData::dict
```

7.33 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 EverCloudExceptionDataPtr exceptionData () const override

Additional Inherited Members

7.33.1 Detailed Description

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

7.33.2 Constructor & Destructor Documentation

7.33.2.1 EvernoteException() [1/4]

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

7.33.2.2 EvernoteException() [2/4]

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

7.33.2.3 EvernoteException() [3/4]

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

7.33.2.4 EvernoteException() [4/4]

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

7.33.3 Member Function Documentation

7.33.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::EvernoteException::exceptionData ( ) const  [override],
[virtual]
```

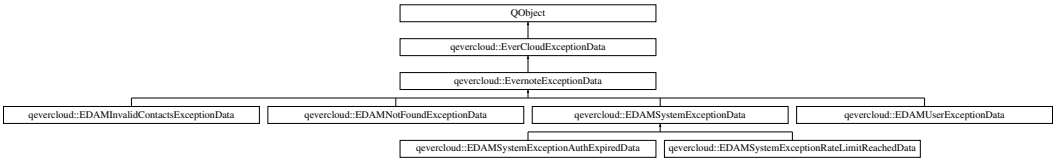
Reimplemented from qevercloud::EverCloudException.

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

7.34 qevercloud::EvernoteExceptionData Class Reference

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

Inheritance diagram for qevercloud::EvernoteExceptionData:



Public Member Functions

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

Additional Inherited Members

7.34.1 Detailed Description

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

7.34.2 Constructor & Destructor Documentation

7.34.2.1 EvernoteExceptionData()

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

7.34.3 Member Function Documentation

7.34.3.1 throwException()

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

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

Reimplemented from qevercloud::EverCloudExceptionData.

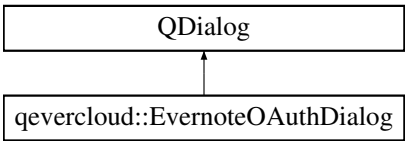
Reimplemented in qevercloud::EDAMSystemExceptionAuthExpiredData, qevercloud::EDAMSystemException↩RateLimitReachedData, qevercloud::EDAMInvalidContactsExceptionData, qevercloud::EDAMNotFound↩ExceptionData, qevercloud::EDAMSystemExceptionData, and qevercloud::EDAMUserExceptionData.

7.35 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

- using OAuthResult = EvernoteOAuthWebView::OAuthResult

Public Member Functions

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

7.35.1 Detailed Description

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

Intended usage:

```
#include <QEverCloudOAuth.h>

EvernoteOAuthDialog d(myConsumerKey, myConsumerSecret);
if(d.exec() == QDialog::Accepted) {
    EvernoteOAuthDialog::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.

7.35.2 Member Typedef Documentation

7.35.2.1 OAuthResult

```
using qevercloud::EvernoteOAuthDialog::OAuthResult = EvernoteOAuthWebView::OAuthResult
```

7.35.3 Constructor & Destructor Documentation

7.35.3.1 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

7.35.3.2 ~EvernoteOAuthDialog()

```
virtual qevercloud::EvernoteOAuthDialog::~EvernoteOAuthDialog ( )  [override], [virtual]
```

7.35.4 Member Function Documentation

7.35.4.1 exec()

```
virtual int qevercloud::EvernoteOAuthDialog::exec ( )  [override], [virtual]
```

Returns

QDialog::Accepted on a successful authentication.

7.35.4.2 isSucceeded()

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

Returns

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

7.35.4.3 oauthError()

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

Returns

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

7.35.4.4 oauthResult()

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

Returns

the result of a successful authentication.

7.35.4.5 open()

```
virtual void qevercloud::EvernoteOAuthDialog::open ( )  [override], [virtual]
```

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

7.35.4.6 setWebViewSizeHint()

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

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

Parameters

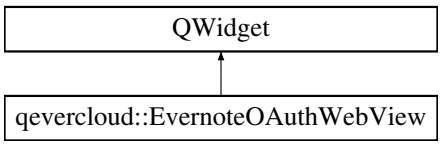
sizeHint	will be used as the preffered size of the contained QWebView.

7.36 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, const qint64 timeoutMsec=30000)
- bool isSucceeded () const
- QString oauthError () const
- OAuthResult oauthResult () const
- void setSizeHint (QSize sizeHint)
- QSize sizeHint () const override

7.36.1 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 OAuth.h header.

By default 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.

7.36.2 Constructor & Destructor Documentation

7.36.2.1 EvernoteOAuthWebView()

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

7.36.3 Member Function Documentation

7.36.3.1 authenticate()

```
void qevercloud::EvernoteOAuthWebView::authenticate (
            QString host,
            QString consumerKey,
            QString consumerSecret,
            const qint64 timeoutMsec = 30000 )
```

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
timeoutMsec	Timeout for network requests in milliseconds

7.36.3.2 authenticationFailed

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

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

7.36.3.3 authenticationFinished

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

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

7.36.3.4 authenticationSuceeded

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

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

7.36.3.5 isSucceeded()

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

Returns

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

7.36.3.6 oauthError()

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

Returns

error message resulted from the last call to authenticate

7.36.3.7 oauthResult()

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

Returns

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

7.36.3.8 setSizeHint()

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

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

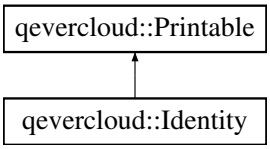
7.36.3.9 sizeHint()

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

7.37 qevercloud::Identity Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Identity:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Identity &other) const
- bool operator!= (const Identity &other) const

Public Attributes

- EverCloudLocalData localData
- IdentityID id = 0
- Optional< Contact > contact
- Optional< UserID > userId
- Optional< bool > deactivated
- Optional< bool > sameBusiness
- Optional< bool > blocked
- Optional< bool > userConnected
- Optional< MessageEventID > eventId

7.37.1 Detailed Description

An object that represents the relationship between a Contact that possibly belongs to an Evernote User.

7.37.2 Member Function Documentation

7.37.2.1 operator"!=()

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

7.37.2.2 operator==()

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

7.37.2.3 print()

```
virtual void qevercloud::Identity::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.37.3 Member Data Documentation

7.37.3.1 blocked

```
Optional< bool > qevercloud::Identity::blocked
```

Has the caller blocked the Evernote user this Identity represents?

7.37.3.2 contact

```
Optional< Contact > qevercloud::Identity::contact
```

NOT DOCUMENTED

7.37.3.3 deactivated

```
Optional< bool > qevercloud::Identity::deactivated
```

Indicates that the contact for this identity is no longer active and should not be used when creating new threads using Destination.recipients, unless you know of another Identity instance with the same contact information that is active. If you are connected to the user (see userConnected), you can still create threads using their Evernote-type contact.

7.37.3.4 eventId

```
Optional< MessageEventID > qevercloud::Identity::eventId
```

A server-assigned sequence number for the events in the messages subsystem.

7.37.3.5 id

```
IdentityID qevercloud::Identity::id = 0
```

The unique identifier for this mapping.

7.37.3.6 localData

```
EverCloudLocalData qevercloud::Identity::localData
```

See the declaration of EverCloudLocalData for details

7.37.3.7 sameBusiness

```
Optional< bool > qevercloud::Identity::sameBusiness
```

Does this Identity belong to someone who is in the same business as the caller?

7.37.3.8 userConnected

```
Optional< bool > qevercloud::Identity::userConnected
```

Indicates that the caller is "connected" to the user of this identity via this identity. When you have a connection via an identity, you should always create new threads using the Evernote-type contact (see ContactType) using the userId field from a connected Identity. On the Evernote service, the Evernote-type contact is the most durable. Phone numbers and e-mail addresses can get re-assigned but your Evernote account user ID will remain the same. A connection exists when both of you are in the same business or the user has replied to a thread that you are on. When connected, you will also get to see more information about the user who has claimed the identity. Note that you are never connected to yourself since you won't be sending messages to yourself, but you will obviously see your own profile information.

7.37.3.9 userId

```
Optional< UserID > qevercloud::Identity::userId
```

The Evernote User id that is connected to the Contact. May be unset if this identity has not yet been claimed, or the caller is not connected to this identity.

7.38 qevercloud::IDurableService Class Reference

```
#include <DurableService.h>
```

Classes

- struct AsyncRequest
- struct SyncRequest

Public Types

- using SyncResult = std::pair< QVariant, EverCloudExceptionDataPtr >
- using SyncServiceCall = std::function< SyncResult(IRequestContextPtr)>
- using AsyncServiceCall = std::function< AsyncResult *(IRequestContextPtr)>

Public Member Functions

- virtual SyncResult executeSyncRequest (SyncRequest &&syncRequest, IRequestContextPtr ctx)=0
- virtual AsyncResult * executeAsyncRequest (AsyncRequest &&asyncRequest, IRequestContextPtr ctx)=0

7.38.1 Member Typedef Documentation

7.38.1.1 AsyncServiceCall

```
using qevercloud::IDurableService::AsyncServiceCall = std::function<AsyncResult*(IRequest↩
ContextPtr)>
```

7.38.1.2 SyncResult

```
using qevercloud::IDurableService::SyncResult = std::pair<QVariant,EverCloudExceptionDataPtr>
```

7.38.1.3 SyncServiceCall

```
using qevercloud::IDurableService::SyncServiceCall = std::function<SyncResult(IRequestContext↩
Ptr)>
```

7.38.2 Member Function Documentation

7.38.2.1 executeAsyncRequest()

```
virtual AsyncResult* qevercloud::IDurableService::executeAsyncRequest (
            AsyncRequest && asyncRequest,
            IRequestContextPtr ctx )  [pure virtual]
```

7.38.2.2 executeSyncRequest()

```
virtual SyncResult qevercloud::IDurableService::executeSyncRequest (
            SyncRequest && syncRequest,
            IRequestContextPtr ctx )  [pure virtual]
```

7.39 qevercloud::ILogger Class Reference

```
#include <Log.h>
```

Public Member Functions

- virtual bool shouldLog (const LogLevel level, const char *component) const =0
- virtual void log (const LogLevel level, const char *component, const char *fileName, const quint32 line↩ Number, const qint64 timestamp, const QString &message)=0
- virtual void setLevel (const LogLevel level)=0
- virtual LogLevel level () const =0

7.39.1 Member Function Documentation

7.39.1.1 level()

```
virtual LogLevel qevercloud::ILogger::level ( ) const  [pure virtual]
```

7.39.1.2 log()

```
virtual void qevercloud::ILogger::log (
            const LogLevel level,
            const char * component,
            const char * fileName,
            const quint32 lineNumber,
            const qint64 timestamp,
            const QString & message )  [pure virtual]
```

7.39.1.3 setLevel()

```
virtual void qevercloud::ILogger::setLevel (
            const LogLevel level )  [pure virtual]
```

7.39.1.4 shouldLog()

```
virtual bool qevercloud::ILogger::shouldLog (
            const LogLevel level,
            const char * component ) const  [pure virtual]
```

7.40 qevercloud::InkNoteImageDownloader Class Reference

the InkNoteImageDownloader class is for downloading the images of ink notes which can be created with the official Evernote client on Windows (only with it, at least at the time of this writing).

```
#include <InkNoteImageDownloader.h>
```

Public Member Functions

- InkNoteImageDownloader ()

  Default constructor.
- InkNoteImageDownloader (QString host, QString shardId, QString authenticationToken, int width, int height)

  Constructs InkNoteImageDownloader.
- virtual ~InkNoteImageDownloader ()
- InkNoteImageDownloader & setHost (QString host)
- InkNoteImageDownloader & setShardId (QString shardId)
- InkNoteImageDownloader & setAuthenticationToken (QString authenticationToken)
- InkNoteImageDownloader & setWidth (int width)
- InkNoteImageDownloader & setHeight (int height)
- QByteArray download (Guid guid, const bool isPublic=false, const qint64 timeoutMsec=30000)

  Downloads the image for the ink note.

7.40.1 Detailed Description

the InkNoteImageDownloader class is for downloading the images of ink notes which can be created with the official Evernote client on Windows (only with it, at least at the time of this writing).

On all other platforms the most one can get instead of the actual ink note is its non-editable image. This class retrieves just these, exclusively in PNG format.

NOTE: almost the entirety of this class' content represents an ad-hoc solution to a completely undocumented feature of Evernote service. A very small glimpse of information was once available on Evernote forums but it's deleted now... I collected an even smaller glimpse of information in this SO question: https://stackoverflow.com/q/39179012/1217285. For all practical purposes it is the only piece of information on this feature in existence now.

7.40.2 Constructor & Destructor Documentation

7.40.2.1 InkNoteImageDownloader() [1/2]

```
qevercloud::InkNoteImageDownloader::InkNoteImageDownloader ( )
```

Default constructor.

host, shardId, authenticationToken, width, height have to be specified before calling download or createPostRequest

7.40.2.2 InkNoteImageDownloader() [2/2]

```
qevercloud::InkNoteImageDownloader::InkNoteImageDownloader (
            QString host,
            QString shardId,
            QString authenticationToken,
            int width,
            int height )
```

Constructs InkNoteImageDownloader.

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 ink notes you must supply a valid authentication token. For public resources the value specified is not used.
width	Width of the ink note's resource
height	Height of the ink note's resource

7.40.2.3 ~InkNoteImageDownloader()

```
virtual qevercloud::InkNoteImageDownloader::~InkNoteImageDownloader ( )  [virtual]
```

7.40.3 Member Function Documentation

7.40.3.1 download()

```
QByteArray qevercloud::InkNoteImageDownloader::download (
            Guid guid,
            const bool isPublic = false,
            const qint64 timeoutMsec = 30000 )
```

Downloads the image for the ink note.

Unlike other pieces of QEverCloud API, downloading of ink note images is currently synchronous only. The reason for that is that AsyncResult is bounded to a single QNetworkRequest object but downloading of the ink note image might take multiple requests for several ink note image's vertical stripes which are then merged together to form a single image. Downloading the entire ink note's image via a single request works sometimes but sometimes Evernote replies to such request with messed up data which cannot be loaded into a QImage. The reason for that behaviour is unknown at the moment, and, given the state of official documentation

- missing - it is likely to stay so. if someone has an idea how to make it more reliable, please let me know.

Parameters

guid	The guid of the ink note's resource
isPublic	Specify true for public ink notes. In this case authentication token is not sent to with the request as it should be according to the docs.
timeoutMsec	Timeout for download request in milliseconds

Returns

downloaded data.

7.40.3.2 setAuthenticationToken()

```
InkNoteImageDownloader& qevercloud::InkNoteImageDownloader::setAuthenticationToken (
            QString authenticationToken )
```

Parameters

authenticationToken	For working private ink notes you must supply a valid authentication token. For public resources the value specified is not used.

7.40.3.3 setHeight()

```
InkNoteImageDownloader& qevercloud::InkNoteImageDownloader::setHeight (
            int height )
```

Parameters

height	Height of the ink note's resource

7.40.3.4 setHost()

```
InkNoteImageDownloader& qevercloud::InkNoteImageDownloader::setHost (
            QString host )
```

Parameters

host	www.evernote.com or sandbox.evernote.com

7.40.3.5 setShardId()

```
InkNoteImageDownloader& qevercloud::InkNoteImageDownloader::setShardId (
            QString shardId )
```

Parameters

shardId	You can get the value from UserStore service or as a result of an authentication.

7.40.3.6 setWidth()

```
InkNoteImageDownloader& qevercloud::InkNoteImageDownloader::setWidth (
            int width )
```

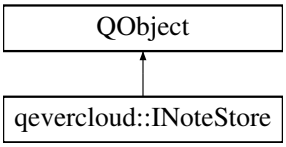
Parameters

width	Width of the ink note's resource

7.41 qevercloud::INoteStore Class Reference

`#include <Services.h>`

Inheritance diagram for qevercloud::INoteStore:



Public Member Functions

- virtual QString noteStoreUrl () const =0
- virtual void setNoteStoreUrl (QString url)=0
- virtual SyncState getSyncState (IRequestContextPtr ctx={})=0
- virtual AsyncResult * getSyncStateAsync (IRequestContextPtr ctx={})=0
- virtual SyncChunk getFilteredSyncChunk (qint32 afterUSN, qint32 maxEntries, const SyncChunkFilter &filter, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getFilteredSyncChunkAsync (qint32 afterUSN, qint32 maxEntries, const SyncChunkFilter &filter, IRequestContextPtr ctx={})=0
- virtual SyncState getLinkedNotebookSyncState (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getLinkedNotebookSyncStateAsync (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual SyncChunk getLinkedNotebookSyncChunk (const LinkedNotebook &linkedNotebook, qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getLinkedNotebookSyncChunkAsync (const LinkedNotebook &linkedNotebook, qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, IRequestContextPtr ctx={})=0
- virtual QList< Notebook > listNotebooks (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listNotebooksAsync (IRequestContextPtr ctx={})=0
- virtual QList< Notebook > listAccessibleBusinessNotebooks (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listAccessibleBusinessNotebooksAsync (IRequestContextPtr ctx={})=0
- virtual Notebook getNotebook (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNotebookAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual Notebook getDefaultNotebook (IRequestContextPtr ctx={})=0
- virtual AsyncResult * getDefaultNotebookAsync (IRequestContextPtr ctx={})=0
- virtual Notebook createNotebook (const Notebook &notebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * createNotebookAsync (const Notebook &notebook, IRequestContextPtr ctx={})=0
- virtual qint32 updateNotebook (const Notebook &notebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateNotebookAsync (const Notebook &notebook, IRequestContextPtr ctx={})=0
- virtual qint32 expungeNotebook (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * expungeNotebookAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QList< Tag > listTags (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listTagsAsync (IRequestContextPtr ctx={})=0
- virtual QList< Tag > listTagsByNotebook (Guid notebookGuid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * listTagsByNotebookAsync (Guid notebookGuid, IRequestContextPtr ctx={})=0
- virtual Tag getTag (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getTagAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual Tag createTag (const Tag &tag, IRequestContextPtr ctx={})=0
- virtual AsyncResult * createTagAsync (const Tag &tag, IRequestContextPtr ctx={})=0
- virtual qint32 updateTag (const Tag &tag, IRequestContextPtr ctx={})=0

- virtual AsyncResult * updateTagAsync (const Tag &tag, IRequestContextPtr ctx={})=0
- virtual void untagAll (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * untagAllAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual qint32 expungeTag (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * expungeTagAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QList< SavedSearch > listSearches (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listSearchesAsync (IRequestContextPtr ctx={})=0
- virtual SavedSearch getSearch (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getSearchAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual SavedSearch createSearch (const SavedSearch &search, IRequestContextPtr ctx={})=0
- virtual AsyncResult * createSearchAsync (const SavedSearch &search, IRequestContextPtr ctx={})=0
- virtual qint32 updateSearch (const SavedSearch &search, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateSearchAsync (const SavedSearch &search, IRequestContextPtr ctx={})=0
- virtual qint32 expungeSearch (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * expungeSearchAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual qint32 findNoteOffset (const NoteFilter &filter, Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * findNoteOffsetAsync (const NoteFilter &filter, Guid guid, IRequestContextPtr ctx={})=0
- virtual NotesMetadataList findNotesMetadata (const NoteFilter &filter, qint32 offset, qint32 maxNotes, const NotesMetadataResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual AsyncResult * findNotesMetadataAsync (const NoteFilter &filter, qint32 offset, qint32 maxNotes, const NotesMetadataResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual NoteCollectionCounts findNoteCounts (const NoteFilter &filter, bool withTrash, IRequestContextPtr ctx={})=0
- virtual AsyncResult * findNoteCountsAsync (const NoteFilter &filter, bool withTrash, IRequestContextPtr ctx={})=0
- virtual Note getNoteWithResultSpec (Guid guid, const NoteResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteWithResultSpecAsync (Guid guid, const NoteResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual Note getNote (Guid guid, bool withContent, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteAsync (Guid guid, bool withContent, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, IRequestContextPtr ctx={})=0
- virtual LazyMap getNoteApplicationData (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteApplicationDataAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QString getNoteApplicationDataEntry (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteApplicationDataEntryAsync (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual qint32 setNoteApplicationDataEntry (Guid guid, QString key, QString value, IRequestContextPtr ctx={})=0
- virtual AsyncResult * setNoteApplicationDataEntryAsync (Guid guid, QString key, QString value, IRequestContextPtr ctx={})=0
- virtual qint32 unsetNoteApplicationDataEntry (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual AsyncResult * unsetNoteApplicationDataEntryAsync (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual QString getNoteContent (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteContentAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QString getNoteSearchText (Guid guid, bool noteOnly, bool tokenizeForIndexing, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteSearchTextAsync (Guid guid, bool noteOnly, bool tokenizeForIndexing, IRequestContextPtr ctx={})=0
- virtual QString getResourceSearchText (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceSearchTextAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QStringList getNoteTagNames (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteTagNamesAsync (Guid guid, IRequestContextPtr ctx={})=0

- virtual Note createNote (const Note &note, IRequestContextPtr ctx={})=0
- virtual AsyncResult * createNoteAsync (const Note &note, IRequestContextPtr ctx={})=0
- virtual Note updateNote (const Note &note, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateNoteAsync (const Note &note, IRequestContextPtr ctx={})=0
- virtual qint32 deleteNote (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * deleteNoteAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual qint32 expungeNote (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * expungeNoteAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual Note copyNote (Guid noteGuid, Guid toNotebookGuid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * copyNoteAsync (Guid noteGuid, Guid toNotebookGuid, IRequestContextPtr ctx={})=0
- virtual QList< NoteVersionId > listNoteVersions (Guid noteGuid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * listNoteVersionsAsync (Guid noteGuid, IRequestContextPtr ctx={})=0
- virtual Note getNoteVersion (Guid noteGuid, qint32 updateSequenceNum, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNoteVersionAsync (Guid noteGuid, qint32 updateSequenceNum, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, IRequestContextPtr ctx={})=0
- virtual Resource getResource (Guid guid, bool withData, bool withRecognition, bool withAttributes, bool withAlternateData, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceAsync (Guid guid, bool withData, bool withRecognition, bool withAttributes, bool withAlternateData, IRequestContextPtr ctx={})=0
- virtual LazyMap getResourceApplicationData (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceApplicationDataAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QString getResourceApplicationDataEntry (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceApplicationDataEntryAsync (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual qint32 setResourceApplicationDataEntry (Guid guid, QString key, QString value, IRequestContextPtr ctx={})=0
- virtual AsyncResult * setResourceApplicationDataEntryAsync (Guid guid, QString key, QString value, IRequestContextPtr ctx={})=0
- virtual qint32 unsetResourceApplicationDataEntry (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual AsyncResult * unsetResourceApplicationDataEntryAsync (Guid guid, QString key, IRequestContextPtr ctx={})=0
- virtual qint32 updateResource (const Resource &resource, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateResourceAsync (const Resource &resource, IRequestContextPtr ctx={})=0
- virtual QByteArray getResourceData (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceDataAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual Resource getResourceByHash (Guid noteGuid, QByteArray contentHash, bool withData, bool withRecognition, bool withAlternateData, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceByHashAsync (Guid noteGuid, QByteArray contentHash, bool withData, bool withRecognition, bool withAlternateData, IRequestContextPtr ctx={})=0
- virtual QByteArray getResourceRecognition (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceRecognitionAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual QByteArray getResourceAlternateData (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceAlternateDataAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual ResourceAttributes getResourceAttributes (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getResourceAttributesAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual Notebook getPublicNotebook (UserID userId, QString publicUri, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getPublicNotebookAsync (UserID userId, QString publicUri, IRequestContextPtr ctx={})=0
- virtual SharedNotebook shareNotebook (const SharedNotebook &sharedNotebook, QString message, IRequestContextPtr ctx={})=0
- virtual AsyncResult * shareNotebookAsync (const SharedNotebook &sharedNotebook, QString message, IRequestContextPtr ctx={})=0
- virtual CreateOrUpdateNotebookSharesResult createOrUpdateNotebookShares (const NotebookShareTemplate &shareTemplate, IRequestContextPtr ctx={})=0

- virtual AsyncResult * createOrUpdateNotebookSharesAsync (const NotebookShareTemplate &shareTemplate, IRequestContextPtr ctx={})=0
- virtual qint32 updateSharedNotebook (const SharedNotebook &sharedNotebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateSharedNotebookAsync (const SharedNotebook &sharedNotebook, IRequestContextPtr ctx={})=0
- virtual Notebook setNotebookRecipientSettings (QString notebookGuid, const NotebookRecipientSettings &recipientSettings, IRequestContextPtr ctx={})=0
- virtual AsyncResult * setNotebookRecipientSettingsAsync (QString notebookGuid, const NotebookRecipientSettings &recipientSettings, IRequestContextPtr ctx={})=0
- virtual QList< SharedNotebook > listSharedNotebooks (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listSharedNotebooksAsync (IRequestContextPtr ctx={})=0
- virtual LinkedNotebook createLinkedNotebook (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * createLinkedNotebookAsync (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual qint32 updateLinkedNotebook (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateLinkedNotebookAsync (const LinkedNotebook &linkedNotebook, IRequestContextPtr ctx={})=0
- virtual QList< LinkedNotebook > listLinkedNotebooks (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listLinkedNotebooksAsync (IRequestContextPtr ctx={})=0
- virtual qint32 expungeLinkedNotebook (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * expungeLinkedNotebookAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual AuthenticationResult authenticateToSharedNotebook (QString shareKeyOrGlobalId, IRequestContextPtr ctx={})=0
- virtual AsyncResult * authenticateToSharedNotebookAsync (QString shareKeyOrGlobalId, IRequestContextPtr ctx={})=0
- virtual SharedNotebook getSharedNotebookByAuth (IRequestContextPtr ctx={})=0
- virtual AsyncResult * getSharedNotebookByAuthAsync (IRequestContextPtr ctx={})=0
- virtual void emailNote (const NoteEmailParameters &parameters, IRequestContextPtr ctx={})=0
- virtual AsyncResult * emailNoteAsync (const NoteEmailParameters &parameters, IRequestContextPtr ctx={})=0
- virtual QString shareNote (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * shareNoteAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual void stopSharingNote (Guid guid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * stopSharingNoteAsync (Guid guid, IRequestContextPtr ctx={})=0
- virtual AuthenticationResult authenticateToSharedNote (QString guid, QString noteKey, IRequestContextPtr ctx={})=0
- virtual AsyncResult * authenticateToSharedNoteAsync (QString guid, QString noteKey, IRequestContextPtr ctx={})=0
- virtual RelatedResult findRelated (const RelatedQuery &query, const RelatedResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual AsyncResult * findRelatedAsync (const RelatedQuery &query, const RelatedResultSpec &resultSpec, IRequestContextPtr ctx={})=0
- virtual UpdateNoteIfUsnMatchesResult updateNoteIfUsnMatches (const Note &note, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateNoteIfUsnMatchesAsync (const Note &note, IRequestContextPtr ctx={})=0
- virtual ManageNotebookSharesResult manageNotebookShares (const ManageNotebookSharesParameters &parameters, IRequestContextPtr ctx={})=0
- virtual AsyncResult * manageNotebookSharesAsync (const ManageNotebookSharesParameters &parameters, IRequestContextPtr ctx={})=0
- virtual ShareRelationships getNotebookShares (QString notebookGuid, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getNotebookSharesAsync (QString notebookGuid, IRequestContextPtr ctx={})=0

Protected Member Functions

- INoteStore (QObject *parent)

7.41.1 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.

Most functions take an "authenticationToken" parameter, which is the value returned by the UserStore which permits access to the account.

Calls which require an authenticationToken may throw an EDAMUserException for the following reasons:

- DATA_REQUIRED "authenticationToken" - token is empty
- BAD_DATA_FORMAT "authenticationToken" - token is malformed
- INVALID_AUTH "authenticationToken" - token signature is invalid
- AUTH_EXPIRED "authenticationToken" - token has expired or been revoked
- PERMISSION_DENIED "authenticationToken" - token does not grant permission to perform the requested action
- BUSINESS_SECURITY_LOGIN_REQUIRED "sso" - the user is a member of a business that requires single sign-on, and must complete SSO before accessing business content.

7.41.2 Constructor & Destructor Documentation

7.41.2.1 INoteStore()

```
qevercloud::INoteStore::INoteStore (
            QObject * parent )  [inline], [protected]
```

7.41.3 Member Function Documentation

7.41.3.1 authenticateToSharedNote()

```
virtual AuthenticationResult qevercloud::INoteStore::authenticateToSharedNote (
            QString guid,
            QString noteKey,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.2 authenticateToSharedNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::authenticateToSharedNoteAsync (
            QString guid,
            QString noteKey,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of authenticateToSharedNote

7.41.3.3 authenticateToSharedNotebook()

```
virtual AuthenticationResult qevercloud::INoteStore::authenticateToSharedNotebook (
            QString shareKeyOrGlobalId,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

shareKeyOr↩ GlobalId	May be one of the following: • A share key for a shared notebook that was granted to some recipient Must be used if you are joining a notebook unless it was shared via createOrUpdateNotebookShares. Share keys are delivered out-of-band and are generally not available to clients. For security reasons, share keys may be invalidated at the discretion of the service. • The shared notebook global identifier. May be used to access a notebook that is already joined. • The Notebook GUID. May be used to access a notebook that was already joined, or to access a notebook that was shared with the recipient via createOrUpdateNotebookShares.
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. 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.

7.41.3.4 authenticateToSharedNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::authenticateToSharedNotebookAsync (
            QString shareKeyOrGlobalId,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of authenticateToSharedNotebook

7.41.3.5 copyNote()

```
virtual Note qevercloud::INoteStore::copyNote (
            Guid noteGuid,
```

```
            Guid toNotebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

If the original note has been shared and has SharedNote records, the shares are NOT copied.

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

7.41.3.6 copyNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::copyNoteAsync (
            Guid noteGuid,
            Guid toNotebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of copyNote

7.41.3.7 createLinkedNotebook()

```
virtual LinkedNotebook qevercloud::INoteStore::createLinkedNotebook (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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	• DATA_REQUIRED "LinkedNotebook.shareName" - missing shareName • BAD_DATA_FORMAT "LinkedNotebook.name" - invalid shareName length or pattern • BAD_DATA_FORMAT "LinkedNotebook.username" - bad username format • BAD_DATA_FORMAT "LinkedNotebook.uri" - if public notebook set but bad uri • DATA_REQUIRED "LinkedNotebook.shardId" - if private notebook but shard id not provided • BAD_DATA_FORMAT "LinkedNotebook.stack" - invalid stack name length or pattern
EDAMSystemException	• BAD_DATA_FORMAT "LinkedNotebook.sharedNotebookGlobalId" - if a bad global identifer was set on a private notebook

7.41.3.8 createLinkedNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createLinkedNotebookAsync (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createLinkedNotebook

7.41.3.9 createNote()

```
virtual Note qevercloud::INoteStore::createNote (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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. 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 (except Recognition Resource body, for which the behavior is unspecified).

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

7.41.3.10 createNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createNoteAsync (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createNote

7.41.3.11 createNotebook()

```
virtual Notebook qevercloud::INoteStore::createNotebook (
            const Notebook & notebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 • DATA_REQUIRED "Notebook" - notebook parameter was null • PERMISSION_DENIED "Notebook.defaultNotebook" - if the 'defaultNotebook' field is set to 'true' for a Notebook that is not owned by the user identified by the passed authenticationToken. • LIMIT_REACHED "Notebook" - at max number of notebooks
EDAMNotFoundException	• "Workspace.guid" - if workspaceGuid set and no Workspace exists for the GUID

7.41.3.12 createNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createNotebookAsync (
            const Notebook & notebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createNotebook

7.41.3.13 createOrUpdateNotebookShares()

```
virtual CreateOrUpdateNotebookSharesResult qevercloud::INoteStore::createOrUpdateNotebook↩
Shares (
            const NotebookShareTemplate & shareTemplate,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Share a notebook by a messaging thread ID or a list of contacts. This function is intended to be used in conjunction with Evernote messaging, and as such does not notify the recipient that a notebook has been shared with them.

Sharing with a subset of participants on a thread is accomplished by specifying both a thread ID and a list of contacts. This ensures that even if those contacts are on the thread under a deactivated identity, the correct user (the one who has the given contact on the thread) receives the share.

Parameters

authenticationToken	An authentication token that grants the caller permission to share the notebook. This should be an owner token if the notebook is owned by the caller. If the notebook is a business notebook to which the caller has full access, this should be their business authentication token. If the notebook is a shared (non-business) notebook to which the caller has full access, this should be the shared notebook authentication token returned by NoteStore.authenticateToNotebook.
shareTemplate	Specifies the GUID of the notebook to be shared, the privilege at which the notebook should be shared, and the recipient information.

Returns

A structure containing the USN of the Notebook after the change and a list of created or updated Shared↩ Notebooks.

Exceptions

EDAMUserException	• DATA_REQUIRED "Notebook.guid" - if no notebook GUID was specified • BAD_DATA_FORMAT "Notebook.guid" - if shareTemplate.notebookGuid is not a valid GUID • DATA_REQUIRED "shareTemplate" - if the shareTemplate parameter was missing • DATA_REQUIRED "NotebookShareTemplate.privilege" - if no privilege was specified • DATA_CONFLICT "NotebookShareTemplate.privilege" - if the specified privilege is not allowed. • DATA_REQUIRED "NotebookShareTemplate.recipients" - if no recipients were specified, either by thread ID or as a list of contacts • LIMIT_REACHED "SharedNotebook" - if the notebook has reached its maximum number of shares
EDAMInvalidContactsException	• "NotebookShareTemplate.recipients" - if one or more of the recipients specified in shareTemplate.recipients was not syntactically valid, or if attempting to share a notebook with an Evernote identity that the sharer does not have a connection to. The exception will specify which recipients were invalid.
EDAMNotFoundException	• "Notebook.guid" - if no notebook with the specified GUID was found • "NotebookShareTemplate.recipientThreadId" - if the recipient thread ID was specified, but no thread with that ID exists

7.41.3.14 createOrUpdateNotebookSharesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createOrUpdateNotebookSharesAsync (
            const NotebookShareTemplate & shareTemplate,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createOrUpdateNotebookShares

7.41.3.15 createSearch()

```
virtual SavedSearch qevercloud::INoteStore::createSearch (
            const SavedSearch & search,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.16 createSearchAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createSearchAsync (
            const SavedSearch & search,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createSearch

7.41.3.17 createTag()

```
virtual Tag qevercloud::INoteStore::createTag (
            const Tag & tag,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.18 createTagAsync()

```
virtual AsyncResult* qevercloud::INoteStore::createTagAsync (
            const Tag & tag,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of createTag

7.41.3.19 deleteNote()

```
virtual qint32 qevercloud::INoteStore::deleteNote (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

Exceptions

EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.41.3.20 deleteNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::deleteNoteAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of deleteNote

7.41.3.21 emailNote()

```
virtual void qevercloud::INoteStore::emailNote (
            const NoteEmailParameters & parameters,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.22 emailNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::emailNoteAsync (
            const NoteEmailParameters & parameters,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of emailNote

7.41.3.23 expungeLinkedNotebook()

```
virtual qint32 qevercloud::INoteStore::expungeLinkedNotebook (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.24 expungeLinkedNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::expungeLinkedNotebookAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of expungeLinkedNotebook

7.41.3.25 expungeNote()

```
virtual qint32 qevercloud::INoteStore::expungeNote (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.26 expungeNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::expungeNoteAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of expungeNote

7.41.3.27 expungeNotebook()

```
virtual qint32 qevercloud::INoteStore::expungeNotebook (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.28 expungeNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::expungeNotebookAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of expungeNotebook

7.41.3.29 expungeSearch()

```
virtual qint32 qevercloud::INoteStore::expungeSearch (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.30 expungeSearchAsync()

```
virtual AsyncResult* qevercloud::INoteStore::expungeSearchAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of expungeSearch

7.41.3.31 expungeTag()

```
virtual qint32 qevercloud::INoteStore::expungeTag (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Permanently deletes the tag with the provided GUID, if present.

NOTE: This function is not generally 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

7.41.3.32 expungeTagAsync()

```
virtual AsyncResult* qevercloud::INoteStore::expungeTagAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of expungeTag

7.41.3.33 findNoteCounts()

```
virtual NoteCollectionCounts qevercloud::INoteStore::findNoteCounts (
            const NoteFilter & filter,
            bool withTrash,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.34 findNoteCountsAsync()

```
virtual AsyncResult* qevercloud::INoteStore::findNoteCountsAsync (
            const NoteFilter & filter,
            bool withTrash,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of findNoteCounts

7.41.3.35 findNoteOffset()

```
virtual qint32 qevercloud::INoteStore::findNoteOffset (
            const NoteFilter & filter,
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.36 findNoteOffsetAsync()

```
virtual AsyncResult* qevercloud::INoteStore::findNoteOffsetAsync (
            const NoteFilter & filter,
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of findNoteOffset

7.41.3.37 findNotesMetadata()

```
virtual NotesMetadataList qevercloud::INoteStore::findNotesMetadata (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            const NotesMetadataResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

Parameters

maxNotes	The maximum 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. Currently, the service will not return more than 250 notes in a single request, but this number may change in the future.
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. The Notes.sharedNotes field will not be set.

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

7.41.3.38 findNotesMetadataAsync()

```
virtual AsyncResult* qevercloud::INoteStore::findNotesMetadataAsync (
            const NoteFilter & filter,
            qint32 offset,
            qint32 maxNotes,
            const NotesMetadataResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of findNotesMetadata

7.41.3.39 findRelated()

```
virtual RelatedResult qevercloud::INoteStore::findRelated (
            const RelatedQuery & query,
            const RelatedResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Identify related entities on the service, such as notes, notebooks, tags and users in a business 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. • PERMISSION_DENIED "authenticationToken" - If the caller has requested to findExperts in the context of a non business user (i.e. The authenticationToken is not a business auth token). • 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.

7.41.3.40 findRelatedAsync()

```
virtual AsyncResult* qevercloud::INoteStore::findRelatedAsync (
            const RelatedQuery & query,
            const RelatedResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of findRelated

7.41.3.41 getDefaultNotebook()

```
virtual Notebook qevercloud::INoteStore::getDefaultNotebook (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns the notebook that should be used to store new notes in the user's account when no other notebooks are specified.

7.41.3.42 getDefaultNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getDefaultNotebookAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getDefaultNotebook

7.41.3.43 getFilteredSyncChunk()

```
virtual SyncChunk qevercloud::INoteStore::getFilteredSyncChunk (
            qint32 afterUSN,
            qint32 maxEntries,
            const SyncChunkFilter & filter,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.44 getFilteredSyncChunkAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getFilteredSyncChunkAsync (
            qint32 afterUSN,
            qint32 maxEntries,
            const SyncChunkFilter & filter,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getFilteredSyncChunk

7.41.3.45 getLinkedNotebookSyncChunk()

```
virtual SyncChunk qevercloud::INoteStore::getLinkedNotebookSyncChunk (
            const LinkedNotebook & linkedNotebook,
            qint32 afterUSN,
            qint32 maxEntries,
            bool fullSyncOnly,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.46 getLinkedNotebookSyncChunkAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getLinkedNotebookSyncChunkAsync (
            const LinkedNotebook & linkedNotebook,
            qint32 afterUSN,
            qint32 maxEntries,
            bool fullSyncOnly,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getLinkedNotebookSyncChunk

7.41.3.47 getLinkedNotebookSyncState()

```
virtual SyncState qevercloud::INoteStore::getLinkedNotebookSyncState (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

Exceptions

EDAMUserException	• DATA_REQUIRED "LinkedNotebook.username" - The username field must be populated with the current username of the owner of the notebook for which you are obtaining sync state.
EDAMNotFoundException	• "LinkedNotebook.username" - If the LinkedNotebook.username field does not correspond to a current user on the service.
SystemException	• SHARD_UNAVAILABLE - If the provided LinkedNotebook.username corresponds to a user whose account is on a shard other than that on which this method was invoked.

7.41.3.48 getLinkedNotebookSyncStateAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getLinkedNotebookSyncStateAsync (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getLinkedNotebookSyncState

7.41.3.49 getNote()

```
virtual Note qevercloud::INoteStore::getNote (
            Guid guid,
            bool withContent,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

DEPRECATED. See getNoteWithResultSpec.

This function is equivalent to getNoteWithResultSpec, with each of the boolean parameters mapping to the equivalent field of a NoteResultSpec. The Note.sharedNotes field is never populated on the returned note. To get a note with its shares, use getNoteWithResultSpec.

7.41.3.50 getNoteApplicationData()

```
virtual LazyMap qevercloud::INoteStore::getNoteApplicationData (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.51 getNoteApplicationDataAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteApplicationDataAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteApplicationData

7.41.3.52 getNoteApplicationDataEntry()

```
virtual QString qevercloud::INoteStore::getNoteApplicationDataEntry (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.53 getNoteApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteApplicationDataEntryAsync (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteApplicationDataEntry

7.41.3.54 getNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteAsync (
            Guid guid,
            bool withContent,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNote

7.41.3.55 getNotebook()

```
virtual Notebook qevercloud::INoteStore::getNotebook (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.56 getNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNotebookAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNotebook

7.41.3.57 getNotebookShares()

```
virtual ShareRelationships qevercloud::INoteStore::getNotebookShares (
            QString notebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Return the share relationships for the given notebook, including both the invitations and the memberships.

Note: Beta method! This method is currently intended for limited use by Evernote clients that have discussed using this routine with the platform team.

7.41.3.58 getNotebookSharesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNotebookSharesAsync (
            QString notebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNotebookShares

7.41.3.59 getNoteContent()

```
virtual QString qevercloud::INoteStore::getNoteContent (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.60 getNoteContentAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteContentAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteContent

7.41.3.61 getNoteSearchText()

```
virtual QString qevercloud::INoteStore::getNoteSearchText (
            Guid guid,
            bool noteOnly,
            bool tokenizeForIndexing,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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
EDAMNotFoundException	• "Note.guid" - not found, by GUID

7.41.3.62 getNoteSearchTextAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteSearchTextAsync (
            Guid guid,
            bool noteOnly,
            bool tokenizeForIndexing,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteSearchText

7.41.3.63 getNoteTagNames()

```
virtual QStringList qevercloud::INoteStore::getNoteTagNames (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.64 getNoteTagNamesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteTagNamesAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteTagNames

7.41.3.65 getNoteVersion()

```
virtual Note qevercloud::INoteStore::getNoteVersion (
            Guid noteGuid,
            qint32 updateSequenceNum,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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	• DATA_REQUIRED "Note.guid" - if GUID is null or empty string. • BAD_DATA_FORMAT "Note.guid" - if GUID is not of correct length.
EDAMNotFoundException	• "Note.guid" - not found, by GUID. • "Note.updateSequenceNumber" - the Note doesn't have a version with the corresponding USN.

7.41.3.66 getNoteVersionAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteVersionAsync (
            Guid noteGuid,
            qint32 updateSequenceNum,
            bool withResourcesData,
            bool withResourcesRecognition,
```

```
            bool withResourcesAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteVersion

7.41.3.67 getNoteWithResultSpec()

```
virtual Note qevercloud::INoteStore::getNoteWithResultSpec (
            Guid guid,
            const NoteResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 content depends on whether it is explicitly requested in resultSpec parameter. 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

authenticationToken	An authentication token that grants the caller access to the requested note.
guid	The GUID of the note to be retrieved.
resultSpec	A structure specifying the fields of the note that the caller would like to get.

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

7.41.3.68 getNoteWithResultSpecAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getNoteWithResultSpecAsync (
            Guid guid,
            const NoteResultSpec & resultSpec,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getNoteWithResultSpec

7.41.3.69 getPublicNotebook()

```
virtual Notebook qevercloud::INoteStore::getPublicNotebook (
            UserID userId,
```

```
            QString publicUri,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.70 getPublicNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getPublicNotebookAsync (
            UserID userId,
            QString publicUri,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getPublicNotebook

7.41.3.71 getResource()

```
virtual Resource qevercloud::INoteStore::getResource (
            Guid guid,
            bool withData,
            bool withRecognition,
            bool withAttributes,
            bool withAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.72 getResourceAlternateData()

```
virtual QByteArray qevercloud::INoteStore::getResourceAlternateData (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.73 getResourceAlternateDataAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceAlternateDataAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceAlternateData

7.41.3.74 getResourceApplicationData()

```
virtual LazyMap qevercloud::INoteStore::getResourceApplicationData (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.75 getResourceApplicationDataAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceApplicationDataAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceApplicationData

7.41.3.76 getResourceApplicationDataEntry()

```
virtual QString qevercloud::INoteStore::getResourceApplicationDataEntry (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.77 getResourceApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceApplicationDataEntryAsync (
            Guid guid,
```

```
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceApplicationDataEntry

7.41.3.78 getResourceAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceAsync (
            Guid guid,
            bool withData,
            bool withRecognition,
            bool withAttributes,
            bool withAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResource

7.41.3.79 getResourceAttributes()

```
virtual ResourceAttributes qevercloud::INoteStore::getResourceAttributes (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.80 getResourceAttributesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceAttributesAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceAttributes

7.41.3.81 getResourceByHash()

```
virtual Resource qevercloud::INoteStore::getResourceByHash (
            Guid noteGuid,
            QByteArray contentHash,
            bool withData,
            bool withRecognition,
            bool withAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.82 getResourceByHashAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceByHashAsync (
            Guid noteGuid,
            QByteArray contentHash,
            bool withData,
            bool withRecognition,
            bool withAlternateData,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceByHash

7.41.3.83 getResourceData()

```
virtual QByteArray qevercloud::INoteStore::getResourceData (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.84 getResourceDataAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceDataAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceData

7.41.3.85 getResourceRecognition()

```
virtual QByteArray qevercloud::INoteStore::getResourceRecognition (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.86 getResourceRecognitionAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceRecognitionAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceRecognition

7.41.3.87 getResourceSearchText()

```
virtual QString qevercloud::INoteStore::getResourceSearchText (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.88 getResourceSearchTextAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getResourceSearchTextAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getResourceSearchText

7.41.3.89 getSearch()

```
virtual SavedSearch qevercloud::INoteStore::getSearch (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.90 getSearchAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getSearchAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getSearch

7.41.3.91 getSharedNotebookByAuth()

```
virtual SharedNotebook qevercloud::INoteStore::getSharedNotebookByAuth (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.92 getSharedNotebookByAuthAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getSharedNotebookByAuthAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getSharedNotebookByAuth

7.41.3.93 getSyncState()

```
virtual SyncState qevercloud::INoteStore::getSyncState (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asks the NoteStore to provide information about the status of the user account corresponding to the provided authentication token.

7.41.3.94 getSyncStateAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getSyncStateAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getSyncState

7.41.3.95 getTag()

```
virtual Tag qevercloud::INoteStore::getTag (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.96 getTagAsync()

```
virtual AsyncResult* qevercloud::INoteStore::getTagAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getTag

7.41.3.97 listAccessibleBusinessNotebooks()

```
virtual QList<Notebook> qevercloud::INoteStore::listAccessibleBusinessNotebooks (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of all the notebooks in a business that the user has permission to access, regardless of whether the user has joined them. This includes notebooks that have been shared with the entire business as well as notebooks that have been shared directly with the user.

Parameters

authenticationToken	A business authentication token obtained by calling UserStore.authenticateToBusiness.

Exceptions

EDAMUserException	• INVALID_AUTH "authenticationToken" - if the authentication token is not a business auth token.

7.41.3.98 listAccessibleBusinessNotebooksAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listAccessibleBusinessNotebooksAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listAccessibleBusinessNotebooks

7.41.3.99 listLinkedNotebooks()

```
virtual QList<LinkedNotebook> qevercloud::INoteStore::listLinkedNotebooks (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of linked notebooks

7.41.3.100 listLinkedNotebooksAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listLinkedNotebooksAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listLinkedNotebooks

7.41.3.101 listNotebooks()

```
virtual QList<Notebook> qevercloud::INoteStore::listNotebooks (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of all of the notebooks in the account.

7.41.3.102 listNotebooksAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listNotebooksAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listNotebooks

7.41.3.103 listNoteVersions()

```
virtual QList<NoteVersionId> qevercloud::INoteStore::listNoteVersions (
            Guid noteGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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. This call is only available for notes in Premium accounts. (I.e. access to past versions of Notes is a Premium-only feature.)

Exceptions

EDAMUserException	• DATA_REQUIRED "Note.guid" - if GUID is null or empty string. • BAD_DATA_FORMAT "Note.guid" - if GUID is not of correct length.
EDAMNotFoundException	• "Note.guid" - not found, by GUID.

7.41.3.104 listNoteVersionsAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listNoteVersionsAsync (
            Guid noteGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listNoteVersions

7.41.3.105 listSearches()

```
virtual QList<SavedSearch> qevercloud::INoteStore::listSearches (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of the searches in the account. Evernote does not support the undeletion of searches, so this will only include active searches.

7.41.3.106 listSearchesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listSearchesAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listSearches

7.41.3.107 listSharedNotebooks()

```
virtual QList<SharedNotebook> qevercloud::INoteStore::listSharedNotebooks (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Lists the collection of shared notebooks for all notebooks in the users account.

Returns

The list of all SharedNotebooks for the user

7.41.3.108 listSharedNotebooksAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listSharedNotebooksAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listSharedNotebooks

7.41.3.109 listTags()

```
virtual QList<Tag> qevercloud::INoteStore::listTags (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of the tags in the account. Evernote does not support the undeletion of tags, so this will only include active tags.

7.41.3.110 listTagsAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listTagsAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listTags

7.41.3.111 listTagsByNotebook()

```
virtual QList<Tag> qevercloud::INoteStore::listTagsByNotebook (
            Guid notebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.112 listTagsByNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::listTagsByNotebookAsync (
            Guid notebookGuid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listTagsByNotebook

7.41.3.113 manageNotebookShares()

```
virtual ManageNotebookSharesResult qevercloud::INoteStore::manageNotebookShares (
            const ManageNotebookSharesParameters & parameters,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Manage invitations and memberships associated with a given notebook.

Note: Beta method! This method is currently intended for limited use by Evernote clients that have discussed using this routine with the platform team.

Parameters

parameters	A structure containing all parameters for the updates. See the structure documentation for details.

Exceptions

EDAMUserException	• EDAMErrorCode.LIMIT_REACHED "SharedNotebook" - Trying to share a notebook while the notebook already has EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX shares.

7.41.3.114 manageNotebookSharesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::manageNotebookSharesAsync (
            const ManageNotebookSharesParameters & parameters,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of manageNotebookShares

7.41.3.115 noteStoreUrl()

```
virtual QString qevercloud::INoteStore::noteStoreUrl ( ) const  [pure virtual]
```

7.41.3.116 setNoteApplicationDataEntry()

```
virtual qint32 qevercloud::INoteStore::setNoteApplicationDataEntry (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Update, or create, an entry in the applicationData map for the note identified by guid.

7.41.3.117 setNoteApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::setNoteApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of setNoteApplicationDataEntry

7.41.3.118 setNotebookRecipientSettings()

```
virtual Notebook qevercloud::INoteStore::setNotebookRecipientSettings (
            QString notebookGuid,
            const NotebookRecipientSettings & recipientSettings,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Set values for the recipient settings associated with a notebook share. Only the recipient of the share can update their recipient settings.

If you do *not* wish to, or cannot, change one of the recipient settings fields, you must leave that field unset in recipientSettings. This method will skip that field for updates and attempt to leave the existing value as it is.

If recipientSettings.inMyList is false, both reminderNotifyInApp and reminderNotifyEmail will be either left as null or converted to false (if currently true).

To unset a notebook's stack, pass in the empty string for the stack field.

Parameters

authenticationToken	The owner authentication token for the recipient of the share.

Returns

The updated Notebook with the new recipient settings. Note that some of the recipient settings may differ from what was requested. Clients should update their state based on this return value.

Exceptions

EDAMNotFoundException	• Notebook.guid - Thrown if the service does not have a notebook record with the notebookGuid on the given shard. • Publishing.publishState - Thrown if the business notebook is not shared with the user and is also not published to their business.

Exceptions

EDAMUserException	• PEMISSION_DENIED "authenticationToken" - If the owner of the given token is not allowed to set recipient settings on the specified notebook. • DATA_CONFLICT "recipientSettings.reminderNotifyEmail" - Setting reminderNotifyEmail is allowed only for notebooks which belong to the same business as the user. • DATA_CONFLICT "recipientSettings.inMyList" - If the request is setting inMyList to false and any of reminder∗ settings to true.

7.41.3.119 setNotebookRecipientSettingsAsync()

```
virtual AsyncResult* qevercloud::INoteStore::setNotebookRecipientSettingsAsync (
            QString notebookGuid,
            const NotebookRecipientSettings & recipientSettings,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of setNotebookRecipientSettings

7.41.3.120 setNoteStoreUrl()

```
virtual void qevercloud::INoteStore::setNoteStoreUrl (
            QString url )  [pure virtual]
```

7.41.3.121 setResourceApplicationDataEntry()

```
virtual qint32 qevercloud::INoteStore::setResourceApplicationDataEntry (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Update, or create, an entry in the applicationData map for the Resource identified by guid.

7.41.3.122 setResourceApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::setResourceApplicationDataEntryAsync (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of setResourceApplicationDataEntry

7.41.3.123 shareNote()

```
virtual QString qevercloud::INoteStore::shareNote (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

If this note is not already shared publicly (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

7.41.3.124 shareNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::shareNoteAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of shareNote

7.41.3.125 shareNotebook()

```
virtual SharedNotebook qevercloud::INoteStore::shareNotebook (
            const SharedNotebook & sharedNotebook,
            QString message,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

for first-party clients. See createOrUpdateNotebookShares.

Share a notebook with an email address, and optionally to a specific recipient. If an existing SharedNotebook associated with sharedNotebook.notebookGuid is found by recipientUsername or email, then the values of shared↩ Notebook will be used to update the existing record, else a new record will be created.

If recipientUsername is set and there is already a SharedNotebook for that Notebook with that recipientUsername and the privileges on the existing notebook are lower, than on this one, this will update the privileges and sharer↩ UserId. If there isn't an existing SharedNotebook for recipientUsername, this will create and return a shared notebook for that email and recipientUsername. If recipientUsername is not set and there already is a SharedNotebook for a Notebook for that email address and the privileges on the existing SharedNotebook are lower than on this one, this will update the privileges and sharerUserId, and return the updated SharedNotebook. Otherwise, this will create and return a SharedNotebook for the email address.

If the authenticationToken is a Business auth token, recipientUsername is set and the recipient is in the same business as the business auth token, this method will also auto-join the business user to the SharedNotebook - that is it will set serviceJoined on the SharedNotebook and create a LinkedNotebook on the recipient's account pointing to the SharedNotebook. The LinkedNotebook creation happens out-of-band, so there will be a delay on the order of half a minute between the SharedNotebook and LinkedNotebook creation.

Also handles sending an email to the email addresses: if a SharedNotebook is being created, this will send the shared notebook invite email, and if a SharedNotebook already exists, it will send the shared notebook reminder email. Both these emails contain a link to join the notebook. If the notebook is being auto-joined, it sends an email with that information to the recipient.

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	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.
message	The sharer-defined message to put in the email sent out.

Returns

The fully populated SharedNotebook object including the server assigned globalId which can both be used to uniquely identify the SharedNotebook.

Exceptions

EDAMUserException	• BAD_DATA_FORMAT "SharedNotebook.email" - if the email was not valid • DATA_REQUIRED "SharedNotebook.privilege" - if the SharedNotebook.privilegeLevel was not set. • BAD_DATA_FORMAT "SharedNotebook.requireLogin" - if requireLogin was set. requireLogin is deprecated. • BAD_DATA_FORMAT "SharedNotebook.privilegeLevel" - if the SharedNotebook.privilegeLevel field was unset or set to GROUP. • PERMISSION_DENIED "user" - if the email address on the authenticationToken's owner's account is not confirmed. • PERMISSION_DENIED "SharedNotebook.recipientSettings" - if recipientSettings is set in the sharedNotebook. Only the recipient can set these values via the setSharedNotebookRecipientSettings method. • EDAMErrorCode.LIMIT_REACHED "SharedNotebook" - The notebook already has EDAM_NOTEBOOK_SHARED_NOTEBOOK_MAX shares.
EDAMNotFoundException	• Notebook.guid - if the notebookGuid is not a valid GUID for the user.

7.41.3.126 shareNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::shareNotebookAsync (
            const SharedNotebook & sharedNotebook,
            QString message,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of shareNotebook

7.41.3.127 stopSharingNote()

```
virtual void qevercloud::INoteStore::stopSharingNote (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

If this note is shared publicly 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.

This function does not remove individual shares for the note. To remove individual shares, see stopSharingNote↩ WithRecipients.

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

7.41.3.128 stopSharingNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::stopSharingNoteAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of stopSharingNote

7.41.3.129 unsetNoteApplicationDataEntry()

```
virtual qint32 qevercloud::INoteStore::unsetNoteApplicationDataEntry (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.41.3.130 unsetNoteApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::unsetNoteApplicationDataEntryAsync (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of unsetNoteApplicationDataEntry

7.41.3.131 unsetResourceApplicationDataEntry()

```
virtual qint32 qevercloud::INoteStore::unsetResourceApplicationDataEntry (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Remove an entry identified by 'key' from the applicationData map for the Resource identified by 'guid'.

7.41.3.132 unsetResourceApplicationDataEntryAsync()

```
virtual AsyncResult* qevercloud::INoteStore::unsetResourceApplicationDataEntryAsync (
            Guid guid,
            QString key,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of unsetResourceApplicationDataEntry

7.41.3.133 untagAll()

```
virtual void qevercloud::INoteStore::untagAll (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.134 untagAllAsync()

```
virtual AsyncResult* qevercloud::INoteStore::untagAllAsync (
            Guid guid,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of untagAll

7.41.3.135 updateLinkedNotebook()

```
virtual qint32 qevercloud::INoteStore::updateLinkedNotebook (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Parameters

linkedNotebook	Updates the name of a linked notebook.

Returns

The Update Sequence Number for this change within the account.

Exceptions

EDAMUserException	• DATA_REQUIRED "LinkedNotebook.shareName" - missing shareName • BAD_DATA_FORMAT "LinkedNotebook.shareName" - invalid shareName length or pattern • BAD_DATA_FORMAT "LinkedNotebook.stack" - invalid stack name length or pattern

7.41.3.136 updateLinkedNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateLinkedNotebookAsync (
            const LinkedNotebook & linkedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateLinkedNotebook

7.41.3.137 updateNote()

```
virtual Note qevercloud::INoteStore::updateNote (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 Note.sharedNotes field will not be set. 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.

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.notebookGuid" - user doesn't own destination • PERMISSION_DENIED "Note.tags" - user doesn't have permission to modify the note's tags. note.tags must be unset. • PERMISSION_DENIED "Note.attributes" - user doesn't have permission to modify the note's attributes. note.attributes must be unset. • 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

7.41.3.138 updateNoteAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateNoteAsync (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateNote

7.41.3.139 updateNotebook()

```
virtual qint32 qevercloud::INoteStore::updateNotebook (
            const Notebook & notebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Submits notebook changes to the service. The provided data must include the notebook's guid field for identification.

The Notebook will be moved to the specified Workspace, if a non empty Notebook.workspaceGuid is provided. If an empty Notebook.workspaceGuid is set and the Notebook is in a Workspace, then it will be removed from the Workspace and a full access SharedNotebook record will be ensured for the caller. If the caller does not already have a full access share, either the privilege of an existing share will be upgraded or a new share will be created. It is illegal to set a Notebook.workspaceGuid on a Workspace backing Notebook.

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 • DATA_REQUIRED "Notebook" - notebook parameter was null • PERMISSION_DENIED "Notebook.defaultNotebook" - if the 'defaultNotebook' field is set to 'true' for a Notebook that is not owned by the user identified by the passed authenticationToken.
EDAMNotFoundException	• "Notebook.guid" - not found, by GUID • "Workspace.guid" - if a non empty workspaceGuid set and no Workspace exists for the GUID

7.41.3.140 updateNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateNotebookAsync (
```

```
            const Notebook & notebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateNotebook

7.41.3.141 updateNoteIfUsnMatches()

```
virtual UpdateNoteIfUsnMatchesResult qevercloud::INoteStore::updateNoteIfUsnMatches (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Perform the same operation as updateNote() would provided that the update sequence number on the parameter Note object matches the current update sequence number that the service has for the note. If they do *not* match, then *no* update is performed and the return value will have the current server state in the note field and updated will be false. If the update sequence numbers between the client and server do match, then the note will be updated and the note field of the return value will be returned as it would be for the updateNote method. This method allows you to check for an update to the note on the service, by another client instance, from when you obtained the note state as a baseline for your edits and the time when you wish to save your edits. If your client can merge the conflict, you can avoid overwriting changes that were saved to the service by the other client.

See the updateNote method for information on the exceptions and parameters for this method. The only difference is that you must have an update sequence number defined on the note parameter (equal to the USN of the note as synched to the client), and the following additional exceptions might be thrown.

Exceptions

EDAMUserException	• DATA_REQUIRED "Note.updateSequenceNum" - If the update sequence number was not provided. This includes a value that is set as 0. • BAD_DATA_FORMAT "Note.updateSequenceNum" - If the note has an update sequence number that is larger than the current server value, which should not happen if your client is working correctly.

7.41.3.142 updateNoteIfUsnMatchesAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateNoteIfUsnMatchesAsync (
            const Note & note,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateNoteIfUsnMatches

7.41.3.143 updateResource()

```
virtual qint32 qevercloud::INoteStore::updateResource (
            const Resource & resource,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.144 updateResourceAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateResourceAsync (
            const Resource & resource,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateResource

7.41.3.145 updateSearch()

```
virtual qint32 qevercloud::INoteStore::updateSearch (
            const SavedSearch & search,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.146 updateSearchAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateSearchAsync (
            const SavedSearch & search,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateSearch

7.41.3.147 updateSharedNotebook()

```
virtual qint32 qevercloud::INoteStore::updateSharedNotebook (
            const SharedNotebook & sharedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

See createOrUpdateNotebookShares and manageNotebookShares.

7.41.3.148 updateSharedNotebookAsync()

```
virtual AsyncResult* qevercloud::INoteStore::updateSharedNotebookAsync (
            const SharedNotebook & sharedNotebook,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateSharedNotebook

7.41.3.149 updateTag()

```
virtual qint32 qevercloud::INoteStore::updateTag (
            const Tag & tag,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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

7.41.3.150 updateTagAsync()

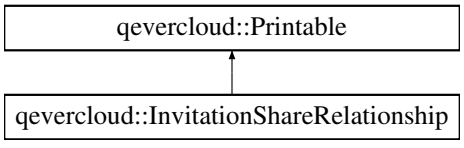
```
virtual AsyncResult* qevercloud::INoteStore::updateTagAsync (
            const Tag & tag,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateTag

7.42 qevercloud::InvitationShareRelationship Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::InvitationShareRelationship:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const InvitationShareRelationship &other) const
- bool operator!= (const InvitationShareRelationship &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > displayName
- Optional< UserIdentity > recipientUserIdentity
- Optional< ShareRelationshipPrivilegeLevel > privilege
- Optional< UserID > sharerUserId

7.42.1 Detailed Description

Describes an invitation to a person to use their Evernote credentials to become a member of a notebook.

7.42.2 Member Function Documentation

7.42.2.1 operator"!=()

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

7.42.2.2 operator==()

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

7.42.2.3 print()

```
virtual void qevercloud::InvitationShareRelationship::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.42.3 Member Data Documentation

7.42.3.1 displayName

```
Optional< QString > qevercloud::InvitationShareRelationship::displayName
```

The string that clients should show to users to represent this invitation.

7.42.3.2 localData

```
EverCloudLocalData qevercloud::InvitationShareRelationship::localData
```

See the declaration of EverCloudLocalData for details

7.42.3.3 privilege

```
Optional< ShareRelationshipPrivilegeLevel > qevercloud::InvitationShareRelationship::privilege
```

The privilege level at which the member will be joined, if it turns out that the member is not already joined at a higher level. Note that the `identity` field may not uniquely identify an Evernote User ID, and so we won't know until the invitation is redeemed whether or not the recipient already has privilege.

7.42.3.4 recipientUserIdentity

```
Optional< UserIdentity > qevercloud::InvitationShareRelationship::recipientUserIdentity
```

Identifies the recipient of the invitation. The user identity type can be either EMAIL, EVERNOTE or IDENTITYID. If the invitation was created using the classic notebook sharing APIs it will be EMAIL. If it was created using the new identity-based notebook sharing APIs it will either be EVERNOTE or IDENTITYID, depending on whether we can map the identity to an Evernote user at the time of creation.

7.42.3.5 sharerUserId

```
Optional< UserID > qevercloud::InvitationShareRelationship::sharerUserId
```

The user id of the user who most recently shared this notebook to this identity. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.43 qevercloud::IRequestContext Class Reference

```
#include <RequestContext.h>
```

Public Member Functions

- virtual QUuid requestId () const =0
- virtual QString authenticationToken () const =0
- virtual qint64 requestTimeout () const =0
- virtual bool increaseRequestTimeoutExponentially () const =0
- virtual qint64 maxRequestTimeout () const =0
- virtual quint32 maxRequestRetryCount () const =0
- virtual QList< QNetworkCookie > cookies () const =0
- virtual IRequestContext * clone () const =0
- virtual ~IRequestContext ()=default

Friends

- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &strm, const IRequestContext &ctx)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &dbg, const IRequestContext &ctx)

7.43.1 Detailed Description

IRequestContext carries several request scoped values defining the way request is handled by QEverCloud

7.43.2 Constructor & Destructor Documentation

7.43.2.1 ~IRequestContext()

```
virtual qevercloud::IRequestContext::~IRequestContext ( )  [virtual], [default]
```

7.43.3 Member Function Documentation

7.43.3.1 authenticationToken()

```
virtual QString qevercloud::IRequestContext::authenticationToken ( ) const  [pure virtual]
```

Authentication token to use along with the request

7.43.3.2 clone()

```
virtual IRequestContext* qevercloud::IRequestContext::clone ( ) const  [pure virtual]
```

Create a new instance of IRequestContext with all the same parameters as in the source but a distinct id

7.43.3.3 cookies()

```
virtual QList<QNetworkCookie> qevercloud::IRequestContext::cookies ( ) const  [pure virtual]
```

Cookies to set to QNetworkRequest corresponding to Evernote API call

7.43.3.4 increaseRequestTimeoutExponentially()

```
virtual bool qevercloud::IRequestContext::increaseRequestTimeoutExponentially ( ) const  [pure
virtual]
```

Should request timeout be exponentially increased on retries or not

7.43.3.5 maxRequestRetryCount()

```
virtual quint32 qevercloud::IRequestContext::maxRequestRetryCount ( ) const  [pure virtual]
```

Max number of attempts to retry a request

7.43.3.6 maxRequestTimeout()

```
virtual qint64 qevercloud::IRequestContext::maxRequestTimeout ( ) const  [pure virtual]
```

Max request timeout in milliseconds (upper boundary for exponentially increasing timeouts on retries)

7.43.3.7 requestId()

```
virtual QUuid qevercloud::IRequestContext::requestId ( ) const  [pure virtual]
```

Automatically generated unique identifier for each request

7.43.3.8 requestTimeout()

```
virtual qint64 qevercloud::IRequestContext::requestTimeout ( ) const  [pure virtual]
```

Request timeout in milliseconds

7.43.4 Friends And Related Function Documentation

7.43.4.1 operator<< [1/2]

```
QEVERCLOUD_EXPORT QTextStream& operator<< (
            QTextStream & strm,
            const IRequestContext & ctx )  [friend]
```

7.43.4.2 operator<< [2/2]

```
QEVERCLOUD_EXPORT QDebug& operator<< (
            QDebug & dbg,
            const IRequestContext & ctx )  [friend]
```

7.44 qevercloud::IRetryPolicy Struct Reference

```
#include <DurableService.h>
```

Public Member Functions

- virtual bool shouldRetry (const EverCloudExceptionDataPtr &exceptionData)=0

7.44.1 Member Function Documentation

7.44.1.1 shouldRetry()

```
virtual bool qevercloud::IRetryPolicy::shouldRetry (
            const EverCloudExceptionDataPtr & exceptionData )  [pure virtual]
```

7.45 qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator Struct Reference

```
#include <Helpers.h>
```

Public Member Functions

- iterator (const typename Container::iterator it)
- Container::iterator operator* ()
- iterator & operator++ ()
- bool operator!= (const iterator &other) const

Public Attributes

- Container::iterator m_iterator

7.45.1 Constructor & Destructor Documentation

7.45.1.1 iterator()

```
template<typename Container >
qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator::iterator (
            const typename Container::iterator it )  [inline]
```

7.45.2 Member Function Documentation

7.45.2.1 operator"!=()

```
template<typename Container >
bool qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator::operator!= (
            const iterator & other ) const  [inline]
```

7.45.2.2 operator*()

```
template<typename Container >
Container::iterator qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator↩
::operator* ( )  [inline]
```

7.45.2.3 operator++()

```
template<typename Container >
iterator& qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator::operator++
( )  [inline]
```

7.45.3 Member Data Documentation

7.45.3.1 m_iterator

```
template<typename Container >
Container::iterator qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator↩
::m_iterator
```

7.46 qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::iterator Struct Reference

```
#include <Helpers.h>
```

Public Member Functions

- iterator (const typename Container::const_iterator it)
- Container::const_iterator operator* ()
- iterator & operator++ ()
- bool operator!= (const iterator &other) const

Public Attributes

- Container::const_iterator m_iterator

7.46.1 Constructor & Destructor Documentation

7.46.1.1 iterator()

```
template<typename Container >
qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::iterator::iterator (
            const typename Container::const_iterator it )  [inline]
```

7.46.2 Member Function Documentation

7.46.2.1 operator"!=()

```
template<typename Container >
bool qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::iterator::operator!=
(
            const iterator & other ) const  [inline]
```

7.46.2.2 operator*()

```
template<typename Container >
Container::const_iterator qevercloud::QAssociativeContainerConstReferenceWrapper< Container
>::iterator::operator* ( )  [inline]
```

7.46.2.3 operator++()

```
template<typename Container >
iterator& qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::iterator↩
::operator++ ( )  [inline]
```

7.46.3 Member Data Documentation

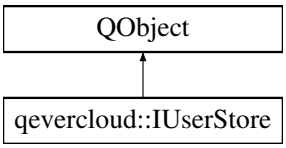
7.46.3.1 m_iterator

```
template<typename Container >
Container::const_iterator qevercloud::QAssociativeContainerConstReferenceWrapper< Container
>::iterator::m_iterator
```

7.47 qevercloud::IUserStore Class Reference

```
#include <Services.h>
```

Inheritance diagram for qevercloud::IUserStore:



Public Member Functions

- virtual QString userStoreUrl () const =0
- virtual void setUserStoreUrl (QString url)=0
- virtual bool checkVersion (QString clientName, qint16 edamVersionMajor=EDAM_VERSION_MAJOR, qint16 edamVersionMinor=EDAM_VERSION_MINOR, IRequestContextPtr ctx={})=0
- virtual AsyncResult * checkVersionAsync (QString clientName, qint16 edamVersionMajor=EDAM_VERSI↩ ON_MAJOR, qint16 edamVersionMinor=EDAM_VERSION_MINOR, IRequestContextPtr ctx={})=0
- virtual BootstrapInfo getBootstrapInfo (QString locale, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getBootstrapInfoAsync (QString locale, IRequestContextPtr ctx={})=0
- virtual AuthenticationResult authenticateLongSession (QString username, QString password, QString consumerKey, QString consumerSecret, QString deviceIdentifier, QString deviceDescription, bool supports↩ TwoFactor, IRequestContextPtr ctx={})=0
- virtual AsyncResult * authenticateLongSessionAsync (QString username, QString password, QString consumerKey, QString consumerSecret, QString deviceIdentifier, QString deviceDescription, bool supports↩ TwoFactor, IRequestContextPtr ctx={})=0
- virtual AuthenticationResult completeTwoFactorAuthentication (QString oneTimeCode, QString device↩ Identifier, QString deviceDescription, IRequestContextPtr ctx={})=0
- virtual AsyncResult * completeTwoFactorAuthenticationAsync (QString oneTimeCode, QString device↩ Identifier, QString deviceDescription, IRequestContextPtr ctx={})=0
- virtual void revokeLongSession (IRequestContextPtr ctx={})=0
- virtual AsyncResult * revokeLongSessionAsync (IRequestContextPtr ctx={})=0
- virtual AuthenticationResult authenticateToBusiness (IRequestContextPtr ctx={})=0
- virtual AsyncResult * authenticateToBusinessAsync (IRequestContextPtr ctx={})=0
- virtual User getUser (IRequestContextPtr ctx={})=0
- virtual AsyncResult * getUserAsync (IRequestContextPtr ctx={})=0
- virtual PublicUserInfo getPublicUserInfo (QString username, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getPublicUserInfoAsync (QString username, IRequestContextPtr ctx={})=0
- virtual UserUrls getUserUrls (IRequestContextPtr ctx={})=0
- virtual AsyncResult * getUserUrlsAsync (IRequestContextPtr ctx={})=0
- virtual void inviteToBusiness (QString emailAddress, IRequestContextPtr ctx={})=0
- virtual AsyncResult * inviteToBusinessAsync (QString emailAddress, IRequestContextPtr ctx={})=0
- virtual void removeFromBusiness (QString emailAddress, IRequestContextPtr ctx={})=0

- virtual AsyncResult * removeFromBusinessAsync (QString emailAddress, IRequestContextPtr ctx={})=0
- virtual void updateBusinessUserIdentifier (QString oldEmailAddress, QString newEmailAddress, IRequestContextPtr ctx={})=0
- virtual AsyncResult * updateBusinessUserIdentifierAsync (QString oldEmailAddress, QString newEmailAddress, IRequestContextPtr ctx={})=0
- virtual QList< UserProfile > listBusinessUsers (IRequestContextPtr ctx={})=0
- virtual AsyncResult * listBusinessUsersAsync (IRequestContextPtr ctx={})=0
- virtual QList< BusinessInvitation > listBusinessInvitations (bool includeRequestedInvitations, IRequestContextPtr ctx={})=0
- virtual AsyncResult * listBusinessInvitationsAsync (bool includeRequestedInvitations, IRequestContextPtr ctx={})=0
- virtual AccountLimits getAccountLimits (ServiceLevel serviceLevel, IRequestContextPtr ctx={})=0
- virtual AsyncResult * getAccountLimitsAsync (ServiceLevel serviceLevel, IRequestContextPtr ctx={})=0

Protected Member Functions

- IUserStore (QObject *parent)

7.47.1 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
- PERMISSION_DENIED "authenticationToken" - token does not convey sufficient privileges

7.47.2 Constructor & Destructor Documentation

7.47.2.1 IUserStore()

```
qevercloud::IUserStore::IUserStore (
            QObject * parent )  [inline], [protected]
```

7.47.3 Member Function Documentation

7.47.3.1 authenticateLongSession()

```
virtual AuthenticationResult qevercloud::IUserStore::authenticateLongSession (
            QString username,
            QString password,
            QString consumerKey,
            QString consumerSecret,
            QString deviceIdentifier,
            QString deviceDescription,
            bool supportsTwoFactor,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 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 • INVALID_AUTH "businessOnly" - the user is a business-only account • PERMISSION_DENIED "User.active" - user account is closed • PERMISSION_DENIED "User.tooManyFailuresTryAgainLater" - user has failed authentication too often • AUTH_EXPIRED "password" - user password is expired

7.47.3.2 authenticateLongSessionAsync()

```
virtual AsyncResult* qevercloud::IUserStore::authenticateLongSessionAsync (
            QString username,
            QString password,
            QString consumerKey,
            QString consumerSecret,
            QString deviceIdentifier,
            QString deviceDescription,
            bool supportsTwoFactor,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of authenticateLongSession

7.47.3.3 authenticateToBusiness()

```
virtual AuthenticationResult qevercloud::IUserStore::authenticateToBusiness (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 Note↩ Store 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. • BUSINESS_SECURITY_LOGIN_REQUIRED "sso" - the user must complete single sign-on before authenticating to the business.

7.47.3.4 authenticateToBusinessAsync()

```
virtual AsyncResult* qevercloud::IUserStore::authenticateToBusinessAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of authenticateToBusiness

7.47.3.5 checkVersion()

```
virtual bool qevercloud::IUserStore::checkVersion (
            QString clientName,
            qint16 edamVersionMajor = EDAM_VERSION_MAJOR,
            qint16 edamVersionMinor = EDAM_VERSION_MINOR,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.47.3.6 checkVersionAsync()

```
virtual AsyncResult* qevercloud::IUserStore::checkVersionAsync (
            QString clientName,
            qint16 edamVersionMajor = EDAM_VERSION_MAJOR,
            qint16 edamVersionMinor = EDAM_VERSION_MINOR,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of checkVersion

7.47.3.7 completeTwoFactorAuthentication()

```
virtual AuthenticationResult qevercloud::IUserStore::completeTwoFactorAuthentication (
            QString oneTimeCode,
            QString deviceIdentifier,
            QString deviceDescription,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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 "deviceIdentifier" - deviceIdentifier is not valid • 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.

7.47.3.8 completeTwoFactorAuthenticationAsync()

```
virtual AsyncResult* qevercloud::IUserStore::completeTwoFactorAuthenticationAsync (
            QString oneTimeCode,
            QString deviceIdentifier,
            QString deviceDescription,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of completeTwoFactorAuthentication

7.47.3.9 getAccountLimits()

```
virtual AccountLimits qevercloud::IUserStore::getAccountLimits (
            ServiceLevel serviceLevel,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Retrieve the standard account limits for a given service level. This should only be called when necessary, e.g. to determine if a higher level is available should the user upgrade, and should be cached for long periods (e.g. 30 days) as the values are not expected to fluctuate frequently.

Exceptions

EDAMUserException	• DATA_REQUIRED "serviceLevel" - serviceLevel is null

7.47.3.10 getAccountLimitsAsync()

```
virtual AsyncResult* qevercloud::IUserStore::getAccountLimitsAsync (
            ServiceLevel serviceLevel,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getAccountLimits

7.47.3.11 getBootstrapInfo()

```
virtual BootstrapInfo qevercloud::IUserStore::getBootstrapInfo (
            QString locale,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.47.3.12 getBootstrapInfoAsync()

```
virtual AsyncResult* qevercloud::IUserStore::getBootstrapInfoAsync (
            QString locale,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getBootstrapInfo

7.47.3.13 getPublicUserInfo()

```
virtual PublicUserInfo qevercloud::IUserStore::getPublicUserInfo (
            QString username,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asks the UserStore about the publicly available location information for a particular username.

Exceptions

EDAMUserException	• DATA_REQUIRED "username" - username is empty

7.47.3.14 getPublicUserInfoAsync()

```
virtual AsyncResult* qevercloud::IUserStore::getPublicUserInfoAsync (
            QString username,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getPublicUserInfo

7.47.3.15 getUser()

```
virtual User qevercloud::IUserStore::getUser (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.47.3.16 getUserAsync()

```
virtual AsyncResult* qevercloud::IUserStore::getUserAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getUser

7.47.3.17 getUserUrls()

```
virtual UserUrls qevercloud::IUserStore::getUserUrls (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns the URLs that should be used when sending requests to the service on behalf of the account represented by the provided authenticationToken.

This method isn't needed by most clients, who can retrieve the correct set of UserUrls from the AuthenticationResult returned from UserStore::authenticateLongSession(). This method is typically only needed to look up the correct URLs for an existing long-lived authentication token.

7.47.3.18 getUserUrlsAsync()

```
virtual AsyncResult* qevercloud::IUserStore::getUserUrlsAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of getUserUrls

7.47.3.19 inviteToBusiness()

```
virtual void qevercloud::IUserStore::inviteToBusiness (
            QString emailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Invite a user to join an Evernote Business account.

Behavior will depend on the auth token.

1. auth token with privileges to manage Evernote Business membership. "External Provisioning" - The user will receive an email inviting them to join the business. They do not need to have an existing Evernote account. If the user has already been invited, a new invitation email will be sent.
2. business auth token issued to an admin user. Only for first-party clients: "Approve Invitation" - If there has been a request to invite the email, approve it. Invited user will receive email with a link to join business. "Invite User" - If no invitation for the email exists, create an approved invitation for the email. An email will be sent to the emailAddress with a link to join the caller's business. business auth token: "Request Invitation" - If no invitation exists, create a request to invite the user to the business. These requests do not count towards a business' max active user limit.

Parameters

authenticationToken	the authentication token with sufficient privileges to manage Evernote Business membership or a business auth token.
emailAddress	the email address of the user to invite to join the Evernote Business account.

Exceptions

EDAMUserException	• DATA_REQUIRED "email" - if no email address was provided • BAD_DATA_FORMAT "email" - if the email address is not well formed • DATA_CONFLICT "BusinessUser.email" - if there is already a user in the business whose business email address matches the specified email address. • LIMIT_REACHED "Business.maxActiveUsers" - if the business has reached its user limit.

7.47.3.20 inviteToBusinessAsync()

```
virtual AsyncResult* qevercloud::IUserStore::inviteToBusinessAsync (
            QString emailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of inviteToBusiness

7.47.3.21 listBusinessInvitations()

```
virtual QList<BusinessInvitation> qevercloud::IUserStore::listBusinessInvitations (
            bool includeRequestedInvitations,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of outstanding invitations to join an Evernote Business account.

Only outstanding invitations are returned by this function. Users who have accepted an invitation and joined a business are listed using listBusinessUsers.

Parameters

authenticationToken	An authentication token with sufficient privileges to manage Evernote Business membership.
includeRequestedInvitations	If true, invitations with a status of BusinessInvitationStatus.REQUESTED will be included in the returned list. If false, only invitations with a status of BusinessInvitationStatus.APPROVED will be included.

7.47.3.22 listBusinessInvitationsAsync()

```
virtual AsyncResult* qevercloud::IUserStore::listBusinessInvitationsAsync (
            bool includeRequestedInvitations,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listBusinessInvitations

7.47.3.23 listBusinessUsers()

```
virtual QList<UserProfile> qevercloud::IUserStore::listBusinessUsers (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Returns a list of active business users in a given business.

Clients are required to cache this information and re-fetch no more than once per day or when they encountered a user ID or username that was not known to them.

To avoid excessive look ups, clients should also track user IDs and usernames that belong to users who are not in the business, since they will not be included in the result.

I.e., when a client encounters a previously unknown user ID as a note's creator, it may query listBusinessUsers to find information about this user. If the user is not in the resulting list, the client should track that fact and not re-query the service the next time that it sees this user on a note.

Parameters

authenticationToken	A business authentication token returned by authenticateToBusiness or with sufficient privileges to manage Evernote Business membership.

7.47.3.24 listBusinessUsersAsync()

```
virtual AsyncResult* qevercloud::IUserStore::listBusinessUsersAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of listBusinessUsers

7.47.3.25 removeFromBusiness()

```
virtual void qevercloud::IUserStore::removeFromBusiness (
            QString emailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Remove a user from an Evernote Business account. Once removed, the user will no longer be able to access content within the Evernote Business account.

The email address of the user to remove from the business must match the email address used to invite a user to join the business via UserStore.inviteToBusiness. This function will only remove users who were invited by external provisioning

Parameters

authenticationToken	An authentication token with sufficient privileges to manage Evernote Business membership.
emailAddress	The email address of the user to remove from the Evernote Business account.

Exceptions

EDAMUserException	• DATA_REQUIRED "email" - if no email address was provided • BAD_DATA_FORMAT "email" - The email address is not well formed
EDAMNotFoundException	• "email" - If there is no user with the specified email address in the business or that user was not invited via external provisioning.

7.47.3.26 removeFromBusinessAsync()

```
virtual AsyncResult* qevercloud::IUserStore::removeFromBusinessAsync (
            QString emailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of removeFromBusiness

7.47.3.27 revokeLongSession()

```
virtual void qevercloud::IUserStore::revokeLongSession (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

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.

7.47.3.28 revokeLongSessionAsync()

```
virtual AsyncResult* qevercloud::IUserStore::revokeLongSessionAsync (
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of revokeLongSession

7.47.3.29 setUserStoreUrl()

```
virtual void qevercloud::IUserStore::setUserStoreUrl (
            QString url )  [pure virtual]
```

7.47.3.30 updateBusinessUserIdentifier()

```
virtual void qevercloud::IUserStore::updateBusinessUserIdentifier (
            QString oldEmailAddress,
            QString newEmailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Update the email address used to uniquely identify an Evernote Business user.

This will update the identifier for a user who was previously invited using inviteToBusiness, ensuring that caller and the Evernote service maintain an agreed-upon identifier for a specific user.

For example, the following sequence of calls would invite a user to join a business, update their email address, and then remove the user from the business using the updated email address.

inviteToBusiness("foo@bar.com") updateBusinessUserIdentifier("foo@bar.com", "baz@bar.com") removeFrom↩ Business("baz@bar.com")

Parameters

authenticationToken	An authentication token with sufficient privileges to manage Evernote Business membership.
oldEmailAddress	The existing email address used to uniquely identify the user.
newEmailAddress	The new email address used to uniquely identify the user.

Exceptions

EDAMUserException	• DATA_REQUIRED "oldEmailAddress" - No old email address was provided • DATA_REQUIRED "newEmailAddress" - No new email address was provided • BAD_DATA_FORMAT "oldEmailAddress" - The old email address is not well formed • BAD_DATA_FORMAT "newEmailAddress" - The new email address is not well formed • DATA_CONFLICT "oldEmailAddress" - The old and new email addresses were the same • DATA_CONFLICT "newEmailAddress" - There is already an invitation or registered user with the provided new email address. • DATA_CONFLICT "invitation.externallyProvisioned" - The user identified by oldEmailAddress was not added via UserStore.inviteToBusiness and therefore cannot be updated.
EDAMNotFoundException	• "oldEmailAddress" - If there is no user or invitation with the specified oldEmailAddress in the business.

7.47.3.31 updateBusinessUserIdentifierAsync()

```
virtual AsyncResult* qevercloud::IUserStore::updateBusinessUserIdentifierAsync (
            QString oldEmailAddress,
            QString newEmailAddress,
            IRequestContextPtr ctx = {} )  [pure virtual]
```

Asynchronous version of updateBusinessUserIdentifier

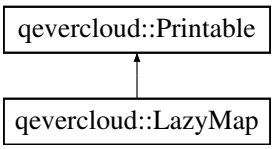
7.47.3.32 userStoreUrl()

```
virtual QString qevercloud::IUserStore::userStoreUrl ( ) const  [pure virtual]
```

7.48 qevercloud::LazyMap Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::LazyMap:



Public Types

- using FullMap = QMap< QString, QString >

Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const LazyMap &other) const
- bool operator!= (const LazyMap &other) const

Public Attributes

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

Properties

- Optional QSet
- Optional< FullMap > fullMap

7.48.1 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.

7.48.2 Member Typedef Documentation

7.48.2.1 FullMap

```
using qevercloud::LazyMap::FullMap = QMap<QString, QString>
```

7.48.3 Member Function Documentation

7.48.3.1 operator"!=()

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

7.48.3.2 operator==()

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

7.48.3.3 print()

```
virtual void qevercloud::LazyMap::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.48.4 Member Data Documentation

7.48.4.1 fullMap

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

The complete map, including all keys and values.

7.48.4.2 keysOnly

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

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

7.48.4.3 localData

```
EverCloudLocalData qevercloud::LazyMap::localData
```

See the declaration of EverCloudLocalData for details

7.48.5 Property Documentation

7.48.5.1 fullMap

```
Optional<FullMap> qevercloud::LazyMap::fullMap
```

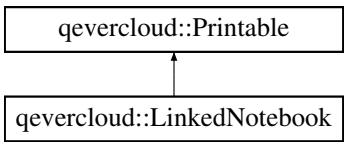
7.48.5.2 QSet

```
Optional qevercloud::LazyMap::QSet
```

7.49 qevercloud::LinkedNotebook Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::LinkedNotebook:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const LinkedNotebook &other) const
- bool operator!= (const LinkedNotebook &other) const

Public Attributes

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

7.49.1 Detailed Description

A link in a user's account that refers them to a public or individual shared notebook in another user's account.

7.49.2 Member Function Documentation

7.49.2.1 operator"!=()

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

7.49.2.2 operator==()

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

7.49.2.3 print()

```
virtual void qevercloud::LinkedNotebook::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.49.3 Member Data Documentation

7.49.3.1 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.

7.49.3.2 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

7.49.3.3 localData

```
EverCloudLocalData qevercloud::LinkedNotebook::localData
```

See the declaration of EverCloudLocalData for details

7.49.3.4 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.

7.49.3.5 shardId

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

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

uri The identifier of the public notebook.

7.49.3.6 sharedNotebookGlobalId

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

The globally unique identifier (globalId) of the shared notebook that corresponds to the share key, or the GUID of the Notebook that the linked notebook refers to. This field must be filled in with the SharedNotebook.globalId or Notebook.GUID value when creating new LinkedNotebooks. This field replaces the deprecated "shareKey" field.

7.49.3.7 shareName

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

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

7.49.3.8 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.

7.49.3.9 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.

7.49.3.10 uri

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

NOT DOCUMENTED

7.49.3.11 username

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

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

7.49.3.12 webApiUrlPrefix

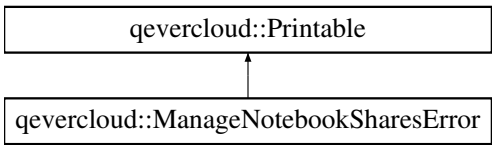
```
Optional< QString > qevercloud::LinkedNotebook::webApiUrlPrefix
```

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.

7.50 qevercloud::ManageNotebookSharesError Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::ManageNotebookSharesError:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNotebookSharesError &other) const
- bool operator!= (const ManageNotebookSharesError &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< UserIdentity > userIdentity
- Optional< EDAMUserException > userException
- Optional< EDAMNotFoundException > notFoundException

7.50.1 Detailed Description

A structure to capture certain errors that occurred during a call to manageNotebookShares. That method can be run best-effort, meaning that some change requests can be applied while others fail. Note that some errors such as system errors will still fail the entire transaction regardless of running best effort. When some change requests do not succeed, the error conditions are captured in instances of this class, captured by the identity of the share relationship and one of the exception fields.

7.50.2 Member Function Documentation

7.50.2.1 operator"!=()

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

7.50.2.2 operator==()

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

7.50.2.3 print()

```
virtual void qevercloud::ManageNotebookSharesError::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.50.3 Member Data Documentation

7.50.3.1 localData

```
EverCloudLocalData qevercloud::ManageNotebookSharesError::localData
```

See the declaration of EverCloudLocalData for details

7.50.3.2 notFoundException

```
Optional< EDAMNotFoundException > qevercloud::ManageNotebookSharesError::notFoundException
```

If the error is represented as an EDAMNotFoundException that would have otherwise been thrown without best-effort execution. Only one exception field will be set.

7.50.3.3 userException

```
Optional< EDAMUserException > qevercloud::ManageNotebookSharesError::userException
```

If the error is represented as an EDAMUserException that would have otherwise been thrown without best-effort execution. Only one exception field will be set.

7.50.3.4 userIdentity

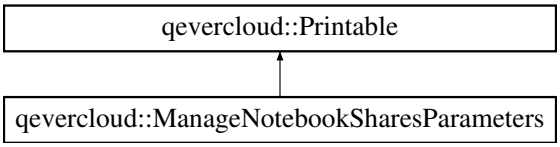
```
Optional< UserIdentity > qevercloud::ManageNotebookSharesError::userIdentity
```

The identity of the share relationship whose update encountered an error.

7.51 qevercloud::ManageNotebookSharesParameters Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::ManageNotebookSharesParameters:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNotebookSharesParameters &other) const
- bool operator!= (const ManageNotebookSharesParameters &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > notebookGuid
- Optional< QString > inviteMessage
- Optional< QList< MemberShareRelationship > > membershipsToUpdate
- Optional< QList< InvitationShareRelationship > > invitationsToCreateOrUpdate
- Optional< QList< UserIdentity > > unshares

Properties

- Optional QList

7.51.1 Detailed Description

A structure that captures parameters used by clients to manage the shares for a given notebook via the manage↩ NotebookShares method.

7.51.2 Member Function Documentation

7.51.2.1 operator"!=()

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

7.51.2.2 operator==()

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

7.51.2.3 print()

```
virtual void qevercloud::ManageNotebookSharesParameters::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.51.3 Member Data Documentation

7.51.3.1 invitationsToCreateOrUpdate

```
Optional<QList<InvitationShareRelationship> > qevercloud::ManageNotebookSharesParameters↩
::invitationsToCreateOrUpdate
```

The list of invitations to update, as matched by the identity field of the InvitationShareRelationship instances, or to create if an existing invitation does not exist. This field is not intended to be the full set of invitations on the notebook and should only include those invitations that you wish to create or update. Note that your invitation could convert into a membership via a service-supported auto-join operation. This happens, for example, when you use an invitation with an Evernote UserID type for a recipient who is a member of the business to which the notebook belongs. Note that to discover the user IDs for business members, the sharer must also be part of the business.

7.51.3.2 inviteMessage

```
Optional< QString > qevercloud::ManageNotebookSharesParameters::inviteMessage
```

If the service sends a message to invitees, this parameter will be used to form the actual message that is sent.

7.51.3.3 localData

```
EverCloudLocalData qevercloud::ManageNotebookSharesParameters::localData
```

See the declaration of EverCloudLocalData for details

7.51.3.4 membershipsToUpdate

```
Optional<QList<MemberShareRelationship> > qevercloud::ManageNotebookSharesParameters::memberships↩
ToUpdate
```

The list of existing memberships to update. This field is not intended to be the full set of memberships for the notebook and should only include those already-existing memberships that you actually want to change. If you want to remove shares, see the unshares fields. If you want to create a membership, i.e. auto-join a business user, you can do this via the invitationsToCreateOrUpdate field using an Evernote UserID of a fellow business member (the created invitation is automatically joined by the service, so the client is creating an invitation, not a membership).

7.51.3.5 notebookGuid

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

The GUID of the notebook whose shares are being managed.

7.51.3.6 unshares

```
Optional<QList<UserIdentity> > qevercloud::ManageNotebookSharesParameters::unshares
```

The list of share relationships to expunge from the service. If the user identity is for an Evernote UserID, then matching invitations or memberships will be removed. If it's an e-mail, then e-mail based shared notebook invitations will be removed. If it's for an Identity ID, then any invitations that match the identity (by identity ID or user ID or e-mail for legacy invitations) will be removed.

7.51.4 Property Documentation

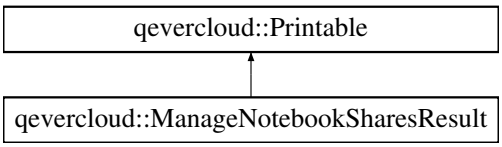
7.51.4.1 QList

```
Optional qevercloud::ManageNotebookSharesParameters::QList
```

7.52 qevercloud::ManageNotebookSharesResult Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ManageNotebookSharesResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNotebookSharesResult &other) const
- bool operator!= (const ManageNotebookSharesResult &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QList< ManageNotebookSharesError > > errors

Properties

- Optional QList

7.52.1 Detailed Description

The return value of a call to the manageNotebookShares method.

7.52.2 Member Function Documentation

7.52.2.1 operator"!=()

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

7.52.2.2 operator==()

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

7.52.2.3 print()

```
virtual void qevercloud::ManageNotebookSharesResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.52.3 Member Data Documentation

7.52.3.1 errors

```
Optional<QList<ManageNotebookSharesError> > qevercloud::ManageNotebookSharesResult::errors
```

If the method completed without throwing exceptions, some errors might still have occurred, and in that case, this field will contain the list of those errors the occurred.

7.52.3.2 localData

```
EverCloudLocalData qevercloud::ManageNotebookSharesResult::localData
```

See the declaration of EverCloudLocalData for details

7.52.4 Property Documentation

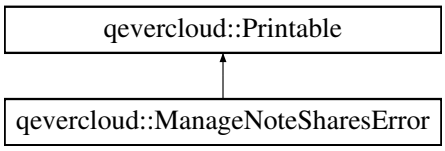
7.52.4.1 QList

```
Optional qevercloud::ManageNotebookSharesResult::QList
```

7.53 qevercloud::ManageNoteSharesError Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ManageNoteSharesError:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNoteSharesError &other) const
- bool operator!= (const ManageNoteSharesError &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< IdentityID > identityID
- Optional< UserID > userID
- Optional< EDAMUserException > userException
- Optional< EDAMNotFoundException > notFoundException

7.53.1 Detailed Description

Captures errors that occur during a call to manageNoteShares. That function can be run best-effort, meaning that some change requests can be applied while others fail. Note that some errors such as system exceptions may still cause the entire call to fail.

Only one of the two ID fields will be set on a given error.

Only one of the two exception fields will be set on a given error.

7.53.2 Member Function Documentation

7.53.2.1 operator"!=()

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

7.53.2.2 operator==()

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

7.53.2.3 print()

```
virtual void qevercloud::ManageNoteSharesError::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.53.3 Member Data Documentation

7.53.3.1 identityID

```
Optional< IdentityID > qevercloud::ManageNoteSharesError::identityID
```

The identity ID of an outstanding invitation that was not updated due to the error.

7.53.3.2 localData

```
EverCloudLocalData qevercloud::ManageNoteSharesError::localData
```

See the declaration of EverCloudLocalData for details

7.53.3.3 notFoundException

```
Optional< EDAMNotFoundException > qevercloud::ManageNoteSharesError::notFoundException
```

If the error is represented as an EDAMNotFoundException that would have otherwise been thrown without best-effort execution. The identifier field of the exception will be either "Identity.id" or "User.id", indicating that no existing share could be found for the specified recipient.

7.53.3.4 userException

```
Optional< EDAMUserException > qevercloud::ManageNoteSharesError::userException
```

If the error is represented as an EDAMUserException that would have otherwise been thrown without best-effort execution.

7.53.3.5 userID

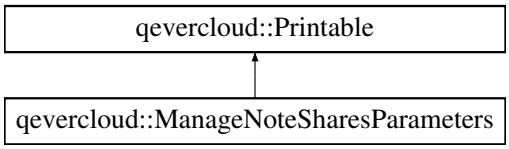
```
Optional< UserID > qevercloud::ManageNoteSharesError::userID
```

The user ID of an existing membership that was not updated due to the error.

7.54 qevercloud::ManageNoteSharesParameters Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ManageNoteSharesParameters:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNoteSharesParameters &other) const
- bool operator!= (const ManageNoteSharesParameters &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > noteGuid
- Optional< QList< NoteMemberShareRelationship > > membershipsToUpdate
- Optional< QList< NoteInvitationShareRelationship > > invitationsToUpdate
- Optional< QList< UserID > > membershipsToUnshare
- Optional< QList< IdentityID > > invitationsToUnshare

Properties

- Optional QList

7.54.1 Detailed Description

Captures parameters used by clients to manage the shares for a given note via the manageNoteShares function. This is used only to manage the existing memberships and invitations for a note. To invite a new recipient, use NoteStore.createOrUpdateSharedNotes.

The only field of an existing membership or invitation that can be updated by this function is the share privilege.

7.54.2 Member Function Documentation

7.54.2.1 operator"!=()

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

7.54.2.2 operator==()

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

7.54.2.3 print()

```
virtual void qevercloud::ManageNoteSharesParameters::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.54.3 Member Data Documentation

7.54.3.1 invitationsToUnshare

```
Optional<QList<IdentityID> > qevercloud::ManageNoteSharesParameters::invitationsToUnshare
```

A list of outstanding invitations to expunge from the service.

7.54.3.2 invitationsToUpdate

```
Optional<QList<NoteInvitationShareRelationship> > qevercloud::ManageNoteSharesParameters↩
::invitationsToUpdate
```

The list of outstanding invitations to update, as matched by the identity field of the NoteInvitationShareRelatioship instances. This field is not meant to be the full set of invitations for the note. Clients should only include those existing invitations that they wish to modify.

7.54.3.3 localData

```
EverCloudLocalData qevercloud::ManageNoteSharesParameters::localData
```

See the declaration of EverCloudLocalData for details

7.54.3.4 membershipsToUnshare

```
Optional<QList<UserID> > qevercloud::ManageNoteSharesParameters::membershipsToUnshare
```

A list of existing memberships to expunge from the service.

7.54.3.5 membershipsToUpdate

```
Optional<QList<NoteMemberShareRelationship> > qevercloud::ManageNoteSharesParameters::memberships↩
ToUpdate
```

A list of existing memberships to update. This field is not meant to be the full set of memberships for the note. Clients should only include those existing memberships that they wish to modify. To remove an existing membership, see the unshares field.

7.54.3.6 noteGuid

```
Optional< QString > qevercloud::ManageNoteSharesParameters::noteGuid
```

The GUID of the note whose shares are being managed.

7.54.4 Property Documentation

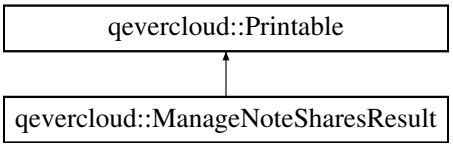
7.54.4.1 QList

```
Optional qevercloud::ManageNoteSharesParameters::QList
```

7.55 qevercloud::ManageNoteSharesResult Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::ManageNoteSharesResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ManageNoteSharesResult &other) const
- bool operator!= (const ManageNoteSharesResult &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QList< ManageNoteSharesError > > errors

Properties

- Optional QList

7.55.1 Detailed Description

The return value of a call to the manageNoteShares function.

7.55.2 Member Function Documentation

7.55.2.1 operator"!=()

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

7.55.2.2 operator==()

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

7.55.2.3 print()

```
virtual void qevercloud::ManageNoteSharesResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.55.3 Member Data Documentation

7.55.3.1 errors

```
Optional<QList<ManageNoteSharesError> > qevercloud::ManageNoteSharesResult::errors
```

If the call succeeded without throwing an exception, some errors might still have occurred. In that case, this field will contain the list of errors.

7.55.3.2 localData

```
EverCloudLocalData qevercloud::ManageNoteSharesResult::localData
```

See the declaration of EverCloudLocalData for details

7.55.4 Property Documentation

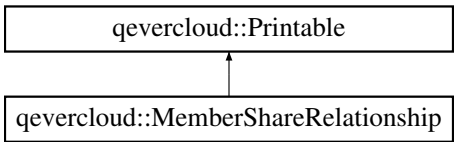
7.55.4.1 QList

```
Optional qevercloud::ManageNoteSharesResult::QList
```

7.56 qevercloud::MemberShareRelationship Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::MemberShareRelationship:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const MemberShareRelationship &other) const
- bool operator!= (const MemberShareRelationship &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > displayName
- Optional< UserID > recipientUserId
- Optional< ShareRelationshipPrivilegeLevel > bestPrivilege
- Optional< ShareRelationshipPrivilegeLevel > individualPrivilege
- Optional< ShareRelationshipRestrictions > restrictions
- Optional< UserID > sharerUserId

7.56.1 Detailed Description

Describes the association between a Notebook and an Evernote User who is a member of that notebook.

7.56.2 Member Function Documentation

7.56.2.1 operator"!=()

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

7.56.2.2 operator==()

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

7.56.2.3 print()

```
virtual void qevercloud::MemberShareRelationship::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.56.3 Member Data Documentation

7.56.3.1 bestPrivilege

```
Optional< ShareRelationshipPrivilegeLevel > qevercloud::MemberShareRelationship::bestPrivilege
```

The privilege at which the member can access the notebook, which is the best privilege granted either individually or to a group to which a member belongs, such as a business. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.56.3.2 displayName

```
Optional< QString > qevercloud::MemberShareRelationship::displayName
```

The string that clients should show to users to represent this member.

7.56.3.3 individualPrivilege

```
Optional< ShareRelationshipPrivilegeLevel > qevercloud::MemberShareRelationship::individual↩
Privilege
```

The individually granted privilege for the member, which does not take GROUP privileges into account. This value may be unset if only a group-assigned privilege has been granted to the member. This value can be managed by others with sufficient rights using the manageNotebookShares method. The valid values that clients should present to users for selection are given via the the 'restrictions' field.

7.56.3.4 localData

```
EverCloudLocalData qevercloud::MemberShareRelationship::localData
```

See the declaration of EverCloudLocalData for details

7.56.3.5 recipientUserId

```
Optional< UserID > qevercloud::MemberShareRelationship::recipientUserId
```

The Evernote User ID of the recipient of this notebook share.

7.56.3.6 restrictions

```
Optional< ShareRelationshipRestrictions > qevercloud::MemberShareRelationship::restrictions
```

The restrictions on which privileges may be individually assigned to the recipient of this share relationship.

7.56.3.7 sharerUserId

```
Optional< UserID > qevercloud::MemberShareRelationship::sharerUserId
```

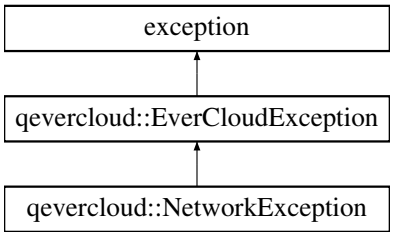
The user id of the user who most recently shared the notebook to this user. This field is currently unset for a MemberShareRelationship created by joining a notebook that has been published to the business (MemberShare↩ Relationships where the individual privilege is unset). This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.57 qevercloud::NetworkException Class Reference

The NetworkException class represents QNetworkReply level errors.

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::NetworkException:



Public Member Functions

- NetworkException ()
- NetworkException (QNetworkReply::NetworkError error)
- NetworkException (QNetworkReply::NetworkError error, QString message)
- virtual ~NetworkException () noexcept override
- bool operator== (const NetworkException &other) const
- bool operator!= (const NetworkException &other) const
- QNetworkReply::NetworkError type () const
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override

Protected Attributes

- QNetworkReply::NetworkError m_type

7.57.1 Detailed Description

The NetworkException class represents QNetworkReply level errors.

7.57.2 Constructor & Destructor Documentation

7.57.2.1 NetworkException() [1/3]

```
qevercloud::NetworkException::NetworkException ( )
```

7.57.2.2 NetworkException() [2/3]

```
qevercloud::NetworkException::NetworkException (
            QNetworkReply::NetworkError error )
```

7.57.2.3 NetworkException() [3/3]

```
qevercloud::NetworkException::NetworkException (
            QNetworkReply::NetworkError error,
            QString message )
```

7.57.2.4 ~NetworkException()

```
virtual qevercloud::NetworkException::~NetworkException ( )  [override], [virtual], [noexcept]
```

7.57.3 Member Function Documentation

7.57.3.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::NetworkException::exceptionData ( ) const  [override],
[virtual]
```

Reimplemented from qevercloud::EverCloudException.

7.57.3.2 operator"!=()

```
bool qevercloud::NetworkException::operator!= (
            const NetworkException & other ) const
```

7.57.3.3 operator==()

```
bool qevercloud::NetworkException::operator== (
            const NetworkException & other ) const
```

7.57.3.4 type()

```
QNetworkReply::NetworkError qevercloud::NetworkException::type ( ) const
```

7.57.3.5 what()

```
const char* qevercloud::NetworkException::what ( ) const  [override], [virtual], [noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.57.4 Member Data Documentation

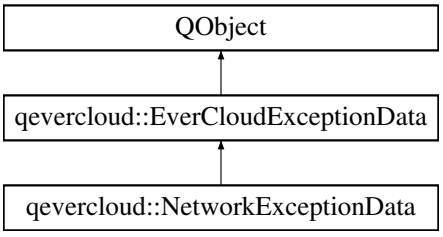
7.57.4.1 m_type

```
QNetworkReply::NetworkError qevercloud::NetworkException::m_type  [protected]
```

7.58 qevercloud::NetworkExceptionData Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::NetworkExceptionData:



Public Member Functions

- NetworkExceptionData (QString error, QNetworkReply::NetworkError type)
- virtual void throwException () const override

Protected Attributes

- QNetworkReply::NetworkError m_type

Additional Inherited Members

7.58.1 Detailed Description

Asynchronous API counterpart of NetworkException. See EverCloudExceptionData for more details.

7.58.2 Constructor & Destructor Documentation

7.58.2.1 NetworkExceptionData()

```
qevercloud::NetworkExceptionData::NetworkExceptionData (
            QString error,
            QNetworkReply::NetworkError type )  [explicit]
```

7.58.3 Member Function Documentation

7.58.3.1 throwException()

```
virtual void qevercloud::NetworkExceptionData::throwException ( ) const  [override], [virtual]
```

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

Reimplemented from qevercloud::EverCloudExceptionData.

7.58.4 Member Data Documentation

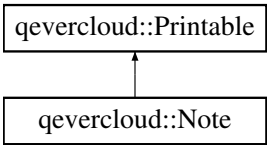
7.58.4.1 m_type

```
QNetworkReply::NetworkError qevercloud::NetworkExceptionData::m_type  [protected]
```

7.59 qevercloud::Note Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Note:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Note &other) const
- bool operator!= (const Note &other) const

Public Attributes

- EverCloudLocalData localData
- 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
- Optional< QList< SharedNote > > sharedNotes
- Optional< NoteRestrictions > restrictions
- Optional< NoteLimits > limits

Properties

- Optional QList

7.59.1 Detailed Description

Represents a single note in the user's account.

7.59.2 Member Function Documentation

7.59.2.1 operator"!=()

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

7.59.2.2 operator==()

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

7.59.2.3 print()

```
virtual void qevercloud::Note::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.59.3 Member Data Documentation

7.59.3.1 active

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

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

7.59.3.2 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.

7.59.3.3 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

7.59.3.4 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)

7.59.3.5 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.

7.59.3.6 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.

7.59.3.7 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.

7.59.3.8 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

7.59.3.9 limits

```
Optional< NoteLimits > qevercloud::Note::limits
```

NOT DOCUMENTED

7.59.3.10 localData

```
EverCloudLocalData qevercloud::Note::localData
```

See the declaration of EverCloudLocalData for details

7.59.3.11 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

7.59.3.12 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

7.59.3.13 restrictions

```
Optional< NoteRestrictions > qevercloud::Note::restrictions
```

If this field is set, the user has note-level permissions that may differ from their notebook-level permissions. In this case, the restrictions structure specifies a set of restrictions limiting the actions that a user may take on the note based on their note-level permissions. If this field is unset, then there are no note-specific restrictions. However, a client may still be limited based on the user's notebook permissions.

7.59.3.14 sharedNotes

```
Optional<QList<SharedNote> > qevercloud::Note::sharedNotes
```

The list of recipients with whom this note has been shared. This field will be unset if the caller has access to the note via the containing notebook, but does not have activity feed permission for that notebook. This field is read-only. Clients may not make changes to a note's sharing state via this field.

7.59.3.15 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

7.59.3.16 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).

7.59.3.17 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

7.59.3.18 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.

7.59.3.19 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.

7.59.4 Property Documentation

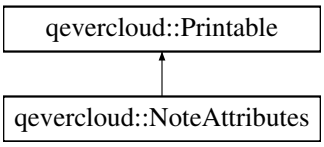
7.59.4.1 QList

```
Optional qevercloud::Note::QList
```

7.60 qevercloud::NoteAttributes Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteAttributes:



Public Types

- using Classifications = QMap< QString, QString >

Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteAttributes &other) const
- bool operator!= (const NoteAttributes &other) const

Public Attributes

- EverCloudLocalData localData
- 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
- Optional< bool > sharedWithBusiness
- Optional< Guid > conflictSourceNoteGuid
- Optional< qint32 > noteTitleQuality

Properties

- Optional< Classifications > classifications

7.60.1 Detailed Description

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

7.60.2 Member Typedef Documentation

7.60.2.1 Classifications

```
using qevercloud::NoteAttributes::Classifications = QMap<QString, QString>
```

7.60.3 Member Function Documentation

7.60.3.1 operator"!=()

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

7.60.3.2 operator==()

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

7.60.3.3 print()

```
virtual void qevercloud::NoteAttributes::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.60.4 Member Data Documentation

7.60.4.1 altitude

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

the altitude where the note was taken

7.60.4.2 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

7.60.4.3 author

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

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

7.60.4.4 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_.

7.60.4.5 conflictSourceNoteGuid

```
Optional< Guid > qevercloud::NoteAttributes::conflictSourceNoteGuid
```

If set, this specifies the GUID of a note that caused a sync conflict resulting in the creation of a duplicate note. The duplicated note contains the user's changes that could not be applied as a result of the sync conflict, and uses the conflictSourceNoteGuid field to specify the note that caused the conflict. This allows clients to provide a customized user experience for note conflicts.

7.60.4.6 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

7.60.4.7 creatorId

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

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

7.60.4.8 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.

7.60.4.9 lastEditorId

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

The numeric user ID of the user described in lastEditedBy.

7.60.4.10 latitude

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

the latitude where the note was taken

7.60.4.11 localData

```
EverCloudLocalData qevercloud::NoteAttributes::localData
```

See the declaration of EverCloudLocalData for details

7.60.4.12 longitude

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

the longitude where the note was taken

7.60.4.13 noteTitleQuality

```
Optional< qint32 > qevercloud::NoteAttributes::noteTitleQuality
```

If set, this specifies that the note's title was automatically generated and indicates the likelihood that the generated title is useful for display to the user. If not set, the note's title was manually entered by the user.

Clients MUST set this attribute to one of the following values when the corresponding note's title was not manually entered by the user: EDAM_NOTE_TITLE_QUALITY_UNTITLED, EDAM_NOTE_TITLE_QUALITY_LOW, EDAM_NOTE_TITLE_QUALITY_MEDIUM or EDAM_NOTE_TITLE_QUALITY_HIGH.

When a user edits a note's title, clients MUST unset this value.

7.60.4.14 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.

7.60.4.15 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.

7.60.4.16 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.

7.60.4.17 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.

7.60.4.18 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.

7.60.4.19 sharedWithBusiness

`Optional< bool > qevercloud::NoteAttributes::sharedWithBusiness`

When this flag is set on a business note, any user in that business may view the note if they request it by GUID. This field is read-only by clients. The server will ignore all values set by clients into this field.

To share a note with the business, use NoteStore.shareNoteWithBusiness and to stop sharing a note with the business, use NoteStore.stopSharingNoteWithBusiness.

7.60.4.20 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

7.60.4.21 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

7.60.4.22 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

7.60.4.23 subjectDate

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

time that the note refers to

7.60.5 Property Documentation

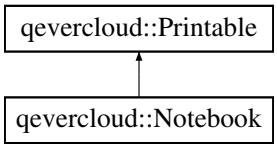
7.60.5.1 classifications

```
Optional<Classifications> qevercloud::NoteAttributes::classifications
```

7.61 qevercloud::Notebook Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Notebook:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Notebook &other) const
- bool operator!= (const Notebook &other) const

Public Attributes

- EverCloudLocalData localData
- 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
- Optional< NotebookRecipientSettings > recipientSettings

Properties

- Optional QList

7.61.1 Detailed Description

A unique container for a set of notes.

7.61.2 Member Function Documentation

7.61.2.1 operator"!=()

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

7.61.2.2 operator==()

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

7.61.2.3 print()

```
virtual void qevercloud::Notebook::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.61.3 Member Data Documentation

7.61.3.1 businessNotebook

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

If the notebook is part of a business account and has been shared with the entire business, this will contain sharing information. 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 shared with the entire business.

7.61.3.2 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.

7.61.3.3 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 default↩ Notebook 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.

7.61.3.4 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

7.61.3.5 localData

```
EverCloudLocalData qevercloud::Notebook::localData
```

See the declaration of EverCloudLocalData for details

7.61.3.6 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

7.61.3.7 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' or 'businessNotebook' specifications, 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().

7.61.3.8 publishing

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

If the Notebook has been opened for public access, 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(). Note that this structure is never populated for business notebooks, see the businessNotebook field.

7.61.3.9 recipientSettings

```
Optional< NotebookRecipientSettings > qevercloud::Notebook::recipientSettings
```

This represents the preferences/settings that a recipient has set for this notebook. These are intended to be changed only by the recipient, and each recipient has their own recipient settings.

7.61.3.10 restrictions

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

NOT DOCUMENTED

7.61.3.11 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.

7.61.3.12 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.

7.61.3.13 sharedNotebookIds

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

DEPRECATED - replaced by sharedNotebooks.

7.61.3.14 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.

7.61.3.15 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.

7.61.3.16 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.

7.61.4 Property Documentation

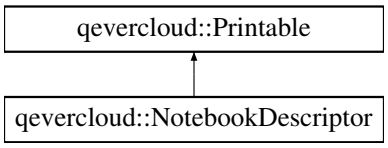
7.61.4.1 QList

```
Optional qevercloud::Notebook::QList
```

7.62 qevercloud::NotebookDescriptor Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NotebookDescriptor:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotebookDescriptor &other) const
- bool operator!= (const NotebookDescriptor &other) const

Public Attributes

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

7.62.1 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.

7.62.2 Member Function Documentation

7.62.2.1 operator"!=()

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

7.62.2.2 operator==()

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

7.62.2.3 print()

```
virtual void qevercloud::NotebookDescriptor::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.62.3 Member Data Documentation

7.62.3.1 contactName

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

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

7.62.3.2 guid

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

The unique identifier of the notebook.

7.62.3.3 hasSharedNotebook

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

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

7.62.3.4 joinedUserCount

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

The number of users who have joined this notebook.

7.62.3.5 localData

```
EverCloudLocalData qevercloud::NotebookDescriptor::localData
```

See the declaration of EverCloudLocalData for details

7.62.3.6 notebookDisplayName

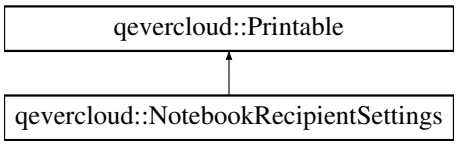
```
Optional< QString > qevercloud::NotebookDescriptor::notebookDisplayName
```

A sequence of characters representing the name of the notebook.

7.63 qevercloud::NotebookRecipientSettings Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NotebookRecipientSettings:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotebookRecipientSettings &other) const
- bool operator!= (const NotebookRecipientSettings &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > reminderNotifyEmail
- Optional< bool > reminderNotifyInApp
- Optional< bool > inMyList
- Optional< QString > stack
- Optional< RecipientStatus > recipientStatus

7.63.1 Detailed Description

Settings meant for the recipient of a notebook share.

Some of these 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.

7.63.2 Member Function Documentation

7.63.2.1 operator"!=()

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

7.63.2.2 operator==()

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

7.63.2.3 print()

```
virtual void qevercloud::NotebookRecipientSettings::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.63.3 Member Data Documentation

7.63.3.1 inMyList

```
Optional< bool > qevercloud::NotebookRecipientSettings::inMyList
```

DEPRECATED: Use recipientStatus instead. The notebook is on the recipient's notebook list (formerly, we would say that the recipient has "joined" the notebook)

7.63.3.2 localData

```
EverCloudLocalData qevercloud::NotebookRecipientSettings::localData
```

See the declaration of EverCloudLocalData for details

7.63.3.3 recipientStatus

```
Optional< RecipientStatus > qevercloud::NotebookRecipientSettings::recipientStatus
```

The notebook is on/off the recipient's notebook list (formerly, we would say that the recipient has "joined" the notebook) and perhaps also their default notebook

7.63.3.4 reminderNotifyEmail

```
Optional< bool > qevercloud::NotebookRecipientSettings::reminderNotifyEmail
```

Indicates that the user wishes to receive daily e-mail notifications for reminders associated with the 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. This value will initially be unset.

7.63.3.5 reminderNotifyInApp

```
Optional< bool > qevercloud::NotebookRecipientSettings::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. This value will initially be unset.

7.63.3.6 stack

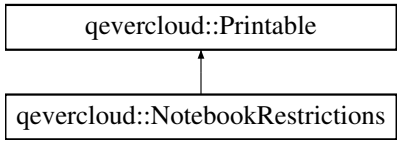
```
Optional< QString > qevercloud::NotebookRecipientSettings::stack
```

The stack the recipient has put this notebook into. See Notebook.stack for a definition. Every recipient can have their own stack value for the same notebook.

7.64 qevercloud::NotebookRestrictions Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NotebookRestrictions:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotebookRestrictions &other) const
- bool operator!= (const NotebookRestrictions &other) const

Public Attributes

- EverCloudLocalData localData
- 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 > updateWhichSharedNotebookRestrictions
- Optional< SharedNotebookInstanceRestrictions > expungeWhichSharedNotebookRestrictions
- Optional< bool > noShareNotesWithBusiness
- Optional< bool > noRenameNotebook
- Optional< bool > noSetInMyList
- Optional< bool > noChangeContact
- Optional< CanMoveToContainerRestrictions > canMoveToContainerRestrictions
- Optional< bool > noSetReminderNotifyEmail
- Optional< bool > noSetReminderNotifyInApp
- Optional< bool > noSetRecipientSettingsStack
- Optional< bool > noCanMoveNote

7.64.1 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.

7.64.2 Member Function Documentation

7.64.2.1 operator"!=()

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

7.64.2.2 operator==()

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

7.64.2.3 print()

```
virtual void qevercloud::NotebookRestrictions::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.64.3 Member Data Documentation

7.64.3.1 canMoveToContainerRestrictions

```
Optional< CanMoveToContainerRestrictions > qevercloud::NotebookRestrictions::canMoveToContainer↩
Restrictions
```

Specifies if the client can move this notebook to a container and if not, the reason why.

7.64.3.2 expungeWhichSharedNotebookRestrictions

```
Optional< SharedNotebookInstanceRestrictions > 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.

7.64.3.3 localData

```
EverCloudLocalData qevercloud::NotebookRestrictions::localData
```

See the declaration of EverCloudLocalData for details

7.64.3.4 noCanMoveNote

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

If set, the client cannot move a Note into or out of the Notebook.

7.64.3.5 noChangeContact

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

NOT DOCUMENTED

7.64.3.6 noCreateNotes

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

The client may not create new notes in the notebook.

7.64.3.7 noCreateSharedNotebooks

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

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

7.64.3.8 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.

7.64.3.9 noEmailNotes

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

The client may not e-mail notes by guid via the Evernote service by using the emailNote method. Email notes by value by populating the note parameter instead.

7.64.3.10 noExpungeNotebook

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

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

7.64.3.11 noExpungeNotes

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

The client may not expunge notes currently in the notebook.

7.64.3.12 noExpungeTags

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

The client may not expunge tags in the owner's account.

7.64.3.13 noPublishToBusinessLibrary

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

The client may not publish the notebook to the business library.

7.64.3.14 noPublishToPublic

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

The client may not publish the notebook to the public. For example, business notebooks may not be shared publicly.

7.64.3.15 noReadNotes

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

The client is not able to read notes from the service and the notebook is write-only.

7.64.3.16 noRenameNotebook

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

The client may not rename this notebook.

7.64.3.17 noSendMessageToRecipients

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

The client may not send messages to the share recipients of the notebook.

7.64.3.18 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.

7.64.3.19 noSetInMyList

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

clients may not change the NotebookRecipientSettings.inMyList settings for this notebook.

7.64.3.20 noSetNotebookStack

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

If the client is able to update the Notebook, the Notebook.stack value may not be set.

7.64.3.21 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.

7.64.3.22 noSetRecipientSettingsStack

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

NOT DOCUMENTED

7.64.3.23 noSetReminderNotifyEmail

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

NOT DOCUMENTED

7.64.3.24 noSetReminderNotifyInApp

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

NOT DOCUMENTED

7.64.3.25 noShareNotes

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

The client may not share notes in the notebook via the shareNote or createOrUpdateSharedNotes methods.

7.64.3.26 noShareNotesWithBusiness

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

The client may not share notes in the notebook via the shareNoteWithBusiness method.

7.64.3.27 noUpdateNotebook

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

The client may not update the Notebook object itself, for example, via the updateNotebook method.

7.64.3.28 noUpdateNotes

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

The client may not update notes currently in the notebook.

7.64.3.29 noUpdateTags

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

The client may not update tags in the owner's account.

7.64.3.30 updateWhichSharedNotebookRestrictions

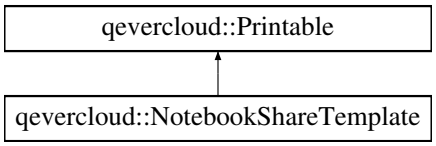
```
Optional< SharedNotebookInstanceRestrictions > qevercloud::NotebookRestrictions::updateWhich↩
SharedNotebookRestrictions
```

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.

7.65 qevercloud::NotebookShareTemplate Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::NotebookShareTemplate:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotebookShareTemplate &other) const
- bool operator!= (const NotebookShareTemplate &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Guid > notebookGuid
- Optional< MessageThreadID > recipientThreadId
- Optional< QList< Contact > > recipientContacts
- Optional< SharedNotebookPrivilegeLevel > privilege

Properties

- Optional QList

7.65.1 Detailed Description

A structure used to share a notebook with one or more recipients at a given privilege.

7.65.2 Member Function Documentation

7.65.2.1 operator"!=()

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

7.65.2.2 operator==()

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

7.65.2.3 print()

```
virtual void qevercloud::NotebookShareTemplate::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.65.3 Member Data Documentation

7.65.3.1 localData

```
EverCloudLocalData qevercloud::NotebookShareTemplate::localData
```

See the declaration of EverCloudLocalData for details

7.65.3.2 notebookGuid

```
Optional< Guid > qevercloud::NotebookShareTemplate::notebookGuid
```

The GUID of the notebook.

7.65.3.3 privilege

```
Optional< SharedNotebookPrivilegeLevel > qevercloud::NotebookShareTemplate::privilege
```

The privilege level to be granted.

7.65.3.4 recipientContacts

```
Optional<QList<Contact> > qevercloud::NotebookShareTemplate::recipientContacts
```

The recipients of the notebook share specified as a list of contacts. This should only be set if the sharing takes place before the thread is created. Use recipientThreadId instead when sharing with an existing thread. Either this field or recipientThreadId must be set.

7.65.3.5 recipientThreadId

```
Optional< MessageThreadID > qevercloud::NotebookShareTemplate::recipientThreadId
```

The recipients of the notebook share specified as a messaging thread ID. If you have an existing messaging thread to share the note with, specify its ID here instead of recipientContacts in order to properly support defunct identities. The sharer must be a participant of the thread. Either this field or recipientContacts must be set.

7.65.4 Property Documentation

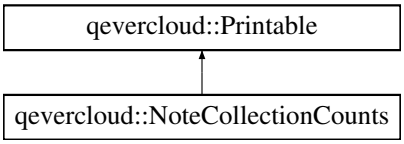
7.65.4.1 QList

```
Optional qevercloud::NotebookShareTemplate::QList
```

7.66 qevercloud::NoteCollectionCounts Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteCollectionCounts:



Public Types

- using TagCounts = QMap< Guid, qint32 >

Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteCollectionCounts &other) const
- bool operator!= (const NoteCollectionCounts &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QMap< Guid, qint32 > > notebookCounts
- Optional< QMap< Guid, qint32 > > tagCounts
- Optional< qint32 > trashCount

Properties

- Optional< TagCounts > notebookCounts
- Optional< TagCounts > tagCounts

7.66.1 Detailed Description

A data structure representing the number of notes for each notebook and tag with a non-zero set of applicable notes.

7.66.2 Member Typedef Documentation

7.66.2.1 TagCounts

```
using qevercloud::NoteCollectionCounts::TagCounts = QMap<Guid, qint32>
```

7.66.3 Member Function Documentation

7.66.3.1 operator"!=()

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

7.66.3.2 operator==()

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

7.66.3.3 print()

```
virtual void qevercloud::NoteCollectionCounts::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.66.4 Member Data Documentation

7.66.4.1 localData

```
EverCloudLocalData qevercloud::NoteCollectionCounts::localData
```

See the declaration of EverCloudLocalData for details

7.66.4.2 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.

7.66.4.3 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.

7.66.4.4 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.)

7.66.5 Property Documentation

7.66.5.1 notebookCounts

```
Optional<TagCounts> qevercloud::NoteCollectionCounts::notebookCounts
```

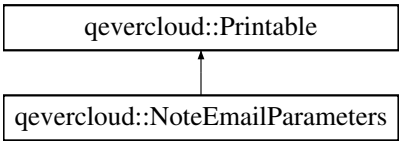
7.66.5.2 tagCounts

```
Optional<TagCounts> qevercloud::NoteCollectionCounts::tagCounts
```

7.67 qevercloud::NoteEmailParameters Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::NoteEmailParameters:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteEmailParameters &other) const
- bool operator!= (const NoteEmailParameters &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > guid
- Optional< Note > note
- Optional< QStringList > toAddresses
- Optional< QStringList > ccAddresses
- Optional< QString > subject
- Optional< QString > message

7.67.1 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.

7.67.2 Member Function Documentation

7.67.2.1 operator"!=()

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

7.67.2.2 operator==()

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

7.67.2.3 print()

```
virtual void qevercloud::NoteEmailParameters::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.67.3 Member Data Documentation

7.67.3.1 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.

7.67.3.2 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.

7.67.3.3 localData

```
EverCloudLocalData qevercloud::NoteEmailParameters::localData
```

See the declaration of EverCloudLocalData for details

7.67.3.4 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).

7.67.3.5 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.

7.67.3.6 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.

7.67.3.7 toAddresses

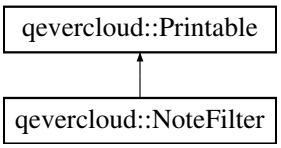
```
Optional< QStringList > qevercloud::NoteEmailParameters::toAddresses
```

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.

7.68 qevercloud::NoteFilter Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteFilter:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteFilter &other) const
- bool operator!= (const NoteFilter &other) const

Public Attributes

- EverCloudLocalData localData
- 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
- Optional< bool > includeAllReadableNotebooks
- Optional< bool > includeAllReadableWorkspaces
- Optional< QString > context
- Optional< QString > rawWords
- Optional< QByteArray > searchContextBytes

Properties

- Optional QList

7.68.1 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.

7.68.2 Member Function Documentation

7.68.2.1 operator"!=()

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

7.68.2.2 operator==()

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

7.68.2.3 print()

```
virtual void qevercloud::NoteFilter::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.68.3 Member Data Documentation

7.68.3.1 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.

7.68.3.2 context

```
Optional< QString > qevercloud::NoteFilter::context
```

Specifies the context to consider when determining result ranking. Clients must leave this value unset unless they wish to explicitly specify a known non-default context.

7.68.3.3 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.

7.68.3.4 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.

7.68.3.5 includeAllReadableNotebooks

```
Optional< bool > qevercloud::NoteFilter::includeAllReadableNotebooks
```

If true, then the search will include all business notebooks that are readable by the user. A business authentication token must be supplied for this option to take effect when calling search APIs.

7.68.3.6 includeAllReadableWorkspaces

```
Optional< bool > qevercloud::NoteFilter::includeAllReadableWorkspaces
```

If true, then the search will include all workspaces that are readable by the user. A business authentication token must be supplied for this option to take effect when calling search APIs.

7.68.3.7 localData

```
EverCloudLocalData qevercloud::NoteFilter::localData
```

See the declaration of EverCloudLocalData for details

7.68.3.8 notebookGuid

```
Optional< Guid > qevercloud::NoteFilter::notebookGuid
```

If present, the Guid of the notebook that must contain the notes.

7.68.3.9 order

```
Optional< qint32 > qevercloud::NoteFilter::order
```

The NoteSortOrder value indicating what criterion should be used to sort the results of the filter.

7.68.3.10 rawWords

```
Optional< QString > qevercloud::NoteFilter::rawWords
```

If present, the raw user query input. Accepts the full search grammar documented in the Evernote API Overview.

7.68.3.11 searchContextBytes

```
Optional< QByteArray > qevercloud::NoteFilter::searchContextBytes
```

Specifies the correlating information about the current search session, in byte array. If this request is not for the first page of search results, the client should populate this field with the value of searchContextBytes from the NotesMetadataList of the original search response.

7.68.3.12 tagGuids

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

If present, the list of tags (by GUID) that must be present on the notes.

7.68.3.13 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".

7.68.3.14 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.

7.68.4 Property Documentation

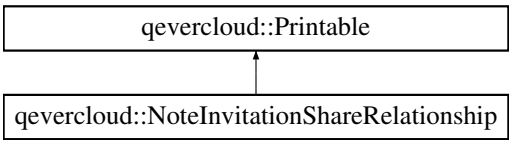
7.68.4.1 QList

```
Optional qevercloud::NoteFilter::QList
```

7.69 qevercloud::NoteInvitationShareRelationship Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteInvitationShareRelationship:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteInvitationShareRelationship &other) const
- bool operator!= (const NoteInvitationShareRelationship &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > displayName
- Optional< IdentityID > recipientIdentityId
- Optional< SharedNotePrivilegeLevel > privilege
- Optional< UserID > sharerUserId

7.69.1 Detailed Description

Describes an invitation to a person to use their Evernote credentials to gain access to a note belonging to another user.

7.69.2 Member Function Documentation

7.69.2.1 operator"!=()

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

7.69.2.2 operator==()

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

7.69.2.3 print()

```
virtual void qevercloud::NoteInvitationShareRelationship::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.69.3 Member Data Documentation

7.69.3.1 displayName

```
Optional< QString > qevercloud::NoteInvitationShareRelationship::displayName
```

The string that clients should show to users to represent this invitation.

7.69.3.2 localData

```
EverCloudLocalData qevercloud::NoteInvitationShareRelationship::localData
```

See the declaration of EverCloudLocalData for details

7.69.3.3 privilege

```
Optional< SharedNotePrivilegeLevel > qevercloud::NoteInvitationShareRelationship::privilege
```

The privilege level that the recipient will be granted when they accept this invitation. If the user already has a higher privilege to access this note then this will not affect the recipient's privileges.

7.69.3.4 recipientIdentityId

```
Optional< IdentityID > qevercloud::NoteInvitationShareRelationship::recipientIdentityId
```

Identifies the identity of the invitation recipient. Once the identity has been claimed by an Evernote user and they have accessed the note at least once, the invitation will be used up and will no longer be returned by the service to clients. Instead, that recipient will be included in the list of NoteMemberShareRelationships.

7.69.3.5 sharerUserId

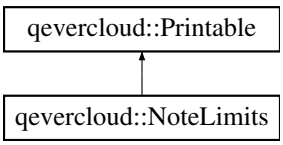
```
Optional< UserID > qevercloud::NoteInvitationShareRelationship::sharerUserId
```

The user id of the user who most recently shared this note to this recipient. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.70 qevercloud::NoteLimits Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteLimits:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteLimits &other) const
- bool operator!= (const NoteLimits &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > noteResourceCountMax
- Optional< qint64 > uploadLimit
- Optional< qint64 > resourceSizeMax
- Optional< qint64 > noteSizeMax
- Optional< qint64 > uploaded

7.70.1 Detailed Description

Represents the owner's account related limits on a Note. The field uploaded represents the total number of bytes that have been uploaded to this account and is taken from the SyncState struct. All other fields represent account related limits and are taken from the AccountLimits struct.

See SyncState and AccountLimits struct field definitions for more details.

7.70.2 Member Function Documentation

7.70.2.1 operator"!=()

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

7.70.2.2 operator==()

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

7.70.2.3 print()

```
virtual void qevercloud::NoteLimits::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.70.3 Member Data Documentation

7.70.3.1 localData

```
EverCloudLocalData qevercloud::NoteLimits::localData
```

See the declaration of EverCloudLocalData for details

7.70.3.2 noteResourceCountMax

```
Optional< qint32 > qevercloud::NoteLimits::noteResourceCountMax
```

NOT DOCUMENTED

7.70.3.3 noteSizeMax

```
Optional< qint64 > qevercloud::NoteLimits::noteSizeMax
```

NOT DOCUMENTED

7.70.3.4 resourceSizeMax

```
Optional< qint64 > qevercloud::NoteLimits::resourceSizeMax
```

NOT DOCUMENTED

7.70.3.5 uploaded

```
Optional< qint64 > qevercloud::NoteLimits::uploaded
```

NOT DOCUMENTED

7.70.3.6 uploadLimit

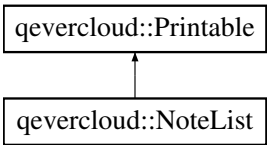
```
Optional< qint64 > qevercloud::NoteLimits::uploadLimit
```

NOT DOCUMENTED

7.71 qevercloud::NoteList Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteList:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteList &other) const
- bool operator!= (const NoteList &other) const

Public Attributes

- EverCloudLocalData localData
- qint32 startIndex = 0
- qint32 totalNotes = 0
- QList< Note > notes
- Optional< QStringList > stoppedWords
- Optional< QStringList > searchedWords
- Optional< qint32 > updateCount
- Optional< QByteArray > searchContextBytes
- Optional< QString > debugInfo

7.71.1 Detailed Description

A small structure for returning a list of notes out of a larger set.

7.71.2 Member Function Documentation

7.71.2.1 operator"!=()

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

7.71.2.2 operator==()

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

7.71.2.3 print()

```
virtual void qevercloud::NoteList::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.71.3 Member Data Documentation

7.71.3.1 debugInfo

```
Optional< QString > qevercloud::NoteList::debugInfo
```

Depends on the value of `context` in NoteFilter, this field may contain debug information if the service decides to do so.

7.71.3.2 localData

```
EverCloudLocalData qevercloud::NoteList::localData
```

See the declaration of EverCloudLocalData for details

7.71.3.3 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.

7.71.3.4 searchContextBytes

```
Optional< QByteArray > qevercloud::NoteList::searchContextBytes
```

Specifies the correlating information about the current search session, in byte array.

7.71.3.5 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.

7.71.3.6 startIndex

```
qint32 qevercloud::NoteList::startIndex = 0
```

The starting index within the overall set of notes. This is also the number of notes that are "before" this list in the set.

7.71.3.7 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.

7.71.3.8 totalNotes

```
qint32 qevercloud::NoteList::totalNotes = 0
```

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))

7.71.3.9 updateCount

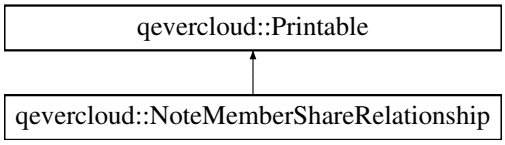
```
Optional< qint32 > qevercloud::NoteList::updateCount
```

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.

7.72 qevercloud::NoteMemberShareRelationship Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteMemberShareRelationship:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteMemberShareRelationship &other) const
- bool operator!= (const NoteMemberShareRelationship &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > displayName
- Optional< UserID > recipientUserId
- Optional< SharedNotePrivilegeLevel > privilege
- Optional< NoteShareRelationshipRestrictions > restrictions
- Optional< UserID > sharerUserId

7.72.1 Detailed Description

Describes the association between a Note and an Evernote User who is a member of that note.

7.72.2 Member Function Documentation

7.72.2.1 operator"!=()

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

7.72.2.2 operator==()

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

7.72.2.3 print()

```
virtual void qevercloud::NoteMemberShareRelationship::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.72.3 Member Data Documentation

7.72.3.1 displayName

```
Optional< QString > qevercloud::NoteMemberShareRelationship::displayName
```

The string that clients should show to users to represent this member.

7.72.3.2 localData

```
EverCloudLocalData qevercloud::NoteMemberShareRelationship::localData
```

See the declaration of EverCloudLocalData for details

7.72.3.3 privilege

```
Optional< SharedNotePrivilegeLevel > qevercloud::NoteMemberShareRelationship::privilege
```

The privilege at which the member can access the note, which is the best privilege granted to the user across all of their individual shares for this note. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.72.3.4 recipientUserId

```
Optional< UserID > qevercloud::NoteMemberShareRelationship::recipientUserId
```

The Evernote UserID of the user who is a member to the note.

7.72.3.5 restrictions

```
Optional< NoteShareRelationshipRestrictions > qevercloud::NoteMemberShareRelationship::restrictions
```

The restrictions on which privileges may be individually assigned to the recipient of this share relationship. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.72.3.6 sharerUserId

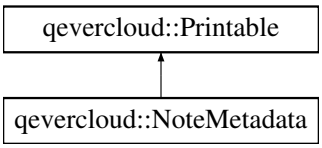
```
Optional< UserID > qevercloud::NoteMemberShareRelationship::sharerUserId
```

The user id of the user who most recently shared the note with this user. This field is used by the service to convey information to the user, so clients should treat it as read-only.

7.73 qevercloud::NoteMetadata Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteMetadata:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteMetadata &other) const
- bool operator!= (const NoteMetadata &other) const

Public Attributes

- EverCloudLocalData localData
- 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

Properties

- Optional QList

7.73.1 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:

7.73.2 Member Function Documentation

7.73.2.1 operator"!=()

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

7.73.2.2 operator==()

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

7.73.2.3 print()

```
virtual void qevercloud::NoteMetadata::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.73.3 Member Data Documentation

7.73.3.1 attributes

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

NOT DOCUMENTED

7.73.3.2 contentLength

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

NOT DOCUMENTED

7.73.3.3 created

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

NOT DOCUMENTED

7.73.3.4 deleted

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

NOT DOCUMENTED

7.73.3.5 guid

```
Guid qevercloud::NoteMetadata::guid
```

NOT DOCUMENTED

7.73.3.6 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.

7.73.3.7 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.

7.73.3.8 localData

```
EverCloudLocalData qevercloud::NoteMetadata::localData
```

See the declaration of EverCloudLocalData for details

7.73.3.9 notebookGuid

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

NOT DOCUMENTED

7.73.3.10 tagGuids

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

NOT DOCUMENTED

7.73.3.11 title

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

NOT DOCUMENTED

7.73.3.12 updated

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

NOT DOCUMENTED

7.73.3.13 updateSequenceNum

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

NOT DOCUMENTED

7.73.4 Property Documentation

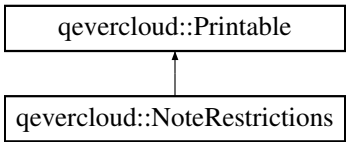
7.73.4.1 QList

```
Optional qevercloud::NoteMetadata::QList
```

7.74 qevercloud::NoteRestrictions Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteRestrictions:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteRestrictions &other) const
- bool operator!= (const NoteRestrictions &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > noUpdateTitle
- Optional< bool > noUpdateContent
- Optional< bool > noEmail
- Optional< bool > noShare
- Optional< bool > noSharePublicly

7.74.1 Detailed Description

This structure captures information about the operations that cannot be performed on a given note that has been shared with a recipient via a SharedNote. The following operations are **never** allowed based on SharedNotes, and as such are left out of the NoteRestrictions structure for brevity:

- Expunging a note (NoteStore.expungeNote)
- Moving a note to the trash (Note.active)
- Updating a note's notebook (Note.notebookGuid)
- Updating a note's tags (Note.tagGuids, Note.tagNames)
- Updating a note's attributes (Note.attributes)
- Sharing a note with the business (NoteStore.shareNoteWithBusiness
- Getting a note's version history (NoteStore.listNoteVersions, NoteStore.getNoteVersion)

When a client has permission to update a note's title or content, it may also update the Note.updated timestamp.

This structure reflects only the privileges / restrictions conveyed by the SharedNote. It does not incorporate privileges conveyed by a potential SharedNotebook to the same recipient. As such, the actual permissions that the recipient has on the note may differ from the permissions expressed in this structure.

For example, consider a user with read-only access to a shared notebook, and a read-write share of a specific note in the notebook. The note restrictions would contain noUpdateTitle = false, while the notebook restrictions would contain noUpdateNotes = true. In this case, the user is allowed to update the note title based on the note restrictions.

Alternatively, consider a user with read-write access to a shared notebook, and a read-only share of a specific note in that notebook. The note restrictions would contain noUpdateTitle = true, while the notebook restrictions would contain noUpdateNotes = false. In this case, the user would have full edit permissions on the note based on the notebook restrictions.

7.74.2 Member Function Documentation

7.74.2.1 operator"!=()

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

7.74.2.2 operator==()

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

7.74.2.3 print()

```
virtual void qevercloud::NoteRestrictions::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.74.3 Member Data Documentation

7.74.3.1 localData

```
EverCloudLocalData qevercloud::NoteRestrictions::localData
```

See the declaration of EverCloudLocalData for details

7.74.3.2 noEmail

```
Optional< bool > qevercloud::NoteRestrictions::noEmail
```

The client may not email the note (NoteStore.emailNote).

7.74.3.3 noShare

```
Optional< bool > qevercloud::NoteRestrictions::noShare
```

The client may not share the note with specific recipients (NoteStore.createOrUpdateSharedNotes).

7.74.3.4 noSharePublicly

```
Optional< bool > qevercloud::NoteRestrictions::noSharePublicly
```

The client may not make the note public (NoteStore.shareNote).

7.74.3.5 noUpdateContent

```
Optional< bool > qevercloud::NoteRestrictions::noUpdateContent
```

NOT DOCUMENTED

7.74.3.6 noUpdateTitle

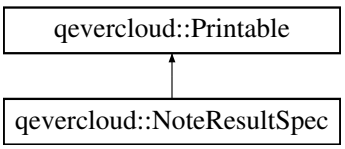
```
Optional< bool > qevercloud::NoteRestrictions::noUpdateTitle
```

The client may not update the note's title (Note.title).

7.75 qevercloud::NoteResultSpec Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteResultSpec:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteResultSpec &other) const
- bool operator!= (const NoteResultSpec &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > includeContent
- Optional< bool > includeResourcesData
- Optional< bool > includeResourcesRecognition
- Optional< bool > includeResourcesAlternateData
- Optional< bool > includeSharedNotes
- Optional< bool > includeNoteAppDataValues
- Optional< bool > includeResourceAppDataValues
- Optional< bool > includeAccountLimits

7.75.1 Detailed Description

This structure is provided to the getNoteWithResultSpec function to specify the subset of fields that should be included in the Note that is returned. This allows clients to request the minimum set of information that they require when retrieving a note, reducing the size of the response and improving the response time.

If one of the fields in this spec is not set, then it will be treated as 'false' by the service, so that the default behavior is to include none of the fields below in the Note.

7.75.2 Member Function Documentation

7.75.2.1 operator"!=()

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

7.75.2.2 operator==()

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

7.75.2.3 print()

```
virtual void qevercloud::NoteResultSpec::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.75.3 Member Data Documentation

7.75.3.1 includeAccountLimits

```
Optional< bool > qevercloud::NoteResultSpec::includeAccountLimits
```

If true, the Note.limits field will be populated with the note owner's account limits.

7.75.3.2 includeContent

```
Optional< bool > qevercloud::NoteResultSpec::includeContent
```

If true, the Note.content field will be populated with the note's ENML contents.

7.75.3.3 includeNoteAppDataValues

```
Optional< bool > qevercloud::NoteResultSpec::includeNoteAppDataValues
```

If true, the Note.attributes.applicationData.fullMap field will be populated.

7.75.3.4 includeResourceAppDataValues

```
Optional< bool > qevercloud::NoteResultSpec::includeResourceAppDataValues
```

If true, the Note.resource.attributes.applicationData.fullMap field will be populated.

7.75.3.5 includeResourcesAlternateData

```
Optional< bool > qevercloud::NoteResultSpec::includeResourcesAlternateData
```

If true, any Resource elements will include the binary contents of their 'alternateData' field's body, if an alternate form is available.

7.75.3.6 includeResourcesData

```
Optional< bool > qevercloud::NoteResultSpec::includeResourcesData
```

If true, any Resource elements will include the binary contents of their 'data' field's body.

7.75.3.7 includeResourcesRecognition

```
Optional< bool > qevercloud::NoteResultSpec::includeResourcesRecognition
```

If true, any Resource elements will include the binary contents of their 'recognition' field's body if recognition data is available.

7.75.3.8 includeSharedNotes

```
Optional< bool > qevercloud::NoteResultSpec::includeSharedNotes
```

If true, the Note.sharedNotes field will be populated with the note's shares.

7.75.3.9 localData

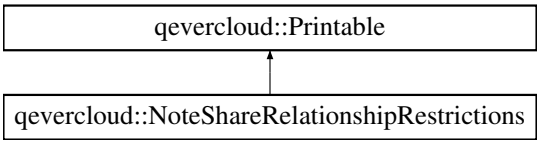
```
EverCloudLocalData qevercloud::NoteResultSpec::localData
```

See the declaration of EverCloudLocalData for details

7.76 qevercloud::NoteShareRelationshipRestrictions Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteShareRelationshipRestrictions:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteShareRelationshipRestrictions &other) const
- bool operator!= (const NoteShareRelationshipRestrictions &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > noSetReadNote
- Optional< bool > noSetModifyNote
- Optional< bool > noSetFullAccess

7.76.1 Detailed Description

This structure is used by the service to communicate to clients, via getNoteShareRelationships, which privilege levels are assignable to the target of a note share relationship.

7.76.2 Member Function Documentation

7.76.2.1 operator"!=()

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

7.76.2.2 operator==()

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

7.76.2.3 print()

```
virtual void qevercloud::NoteShareRelationshipRestrictions::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.76.3 Member Data Documentation

7.76.3.1 localData

```
EverCloudLocalData qevercloud::NoteShareRelationshipRestrictions::localData
```

See the declaration of EverCloudLocalData for details

7.76.3.2 noSetFullAccess

```
Optional< bool > qevercloud::NoteShareRelationshipRestrictions::noSetFullAccess
```

This value is true if the user is not allowed to set the privilege level to SharedNotePrivilegeLevel.FULL_ACCESS.

7.76.3.3 noSetModifyNote

```
Optional< bool > qevercloud::NoteShareRelationshipRestrictions::noSetModifyNote
```

This value is true if the user is not allowed to set the privilege level to SharedNotePrivilegeLevel.MODIFY_NOTE.

7.76.3.4 noSetReadNote

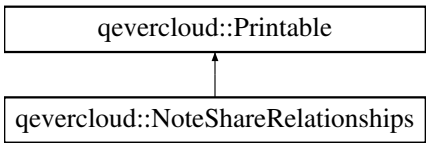
```
Optional< bool > qevercloud::NoteShareRelationshipRestrictions::noSetReadNote
```

This value is true if the user is not allowed to set the privilege level to SharedNotePrivilegeLevel.READ_NOTE.

7.77 qevercloud::NoteShareRelationships Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::NoteShareRelationships:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteShareRelationships &other) const
- bool operator!= (const NoteShareRelationships &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QList< NoteInvitationShareRelationship > > invitations
- Optional< QList< NoteMemberShareRelationship > > memberships
- Optional< NoteShareRelationshipRestrictions > invitationRestrictions

Properties

- Optional QList

7.77.1 Detailed Description

Captures a collection of share relationships for a single note, for example, as returned by the getNoteShares method. The share relationships fall into two broad categories: members, and invitations that can be used to become members.

7.77.2 Member Function Documentation

7.77.2.1 operator"!=()

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

7.77.2.2 operator==()

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

7.77.2.3 print()

```
virtual void qevercloud::NoteShareRelationships::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.77.3 Member Data Documentation

7.77.3.1 invitationRestrictions

```
Optional< NoteShareRelationshipRestrictions > qevercloud::NoteShareRelationships::invitation↩
Restrictions
```

NOT DOCUMENTED

7.77.3.2 invitations

```
Optional<QList<NoteInvitationShareRelationship> > qevercloud::NoteShareRelationships::invitations
```

A list of open invitations that can be redeemed into memberships to the note.

7.77.3.3 localData

```
EverCloudLocalData qevercloud::NoteShareRelationships::localData
```

See the declaration of EverCloudLocalData for details

7.77.3.4 memberships

```
Optional<QList<NoteMemberShareRelationship> > qevercloud::NoteShareRelationships::memberships
```

A list of memberships of the noteb. A member is identified by their Evernote UserID and has rights to access the note.

7.77.4 Property Documentation

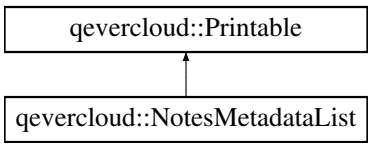
7.77.4.1 QList

```
Optional qevercloud::NoteShareRelationships::QList
```

7.78 qevercloud::NotesMetadataList Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NotesMetadataList:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotesMetadataList &other) const
- bool operator!= (const NotesMetadataList &other) const

Public Attributes

- EverCloudLocalData localData
- qint32 startIndex = 0
- qint32 totalNotes = 0
- QList< NoteMetadata > notes
- Optional< QStringList > stoppedWords
- Optional< QStringList > searchedWords
- Optional< qint32 > updateCount
- Optional< QByteArray > searchContextBytes
- Optional< QString > debugInfo

7.78.1 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.

7.78.2 Member Function Documentation

7.78.2.1 operator"!=()

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

7.78.2.2 operator==()

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

7.78.2.3 print()

```
virtual void qevercloud::NotesMetadataList::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.78.3 Member Data Documentation

7.78.3.1 debugInfo

```
Optional< QString > qevercloud::NotesMetadataList::debugInfo
```

Depends on the value of `context` in NoteFilter, this field may contain debug information if the service decides to do so.

7.78.3.2 localData

```
EverCloudLocalData qevercloud::NotesMetadataList::localData
```

See the declaration of EverCloudLocalData for details

7.78.3.3 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.

7.78.3.4 searchContextBytes

```
Optional< QByteArray > qevercloud::NotesMetadataList::searchContextBytes
```

Specifies the correlating information about the current search session, in byte array.

7.78.3.5 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.

7.78.3.6 startIndex

```
qint32 qevercloud::NotesMetadataList::startIndex = 0
```

The starting index within the overall set of notes. This is also the number of notes that are "before" this list in the set.

7.78.3.7 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.

7.78.3.8 totalNotes

```
qint32 qevercloud::NotesMetadataList::totalNotes = 0
```

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))

7.78.3.9 updateCount

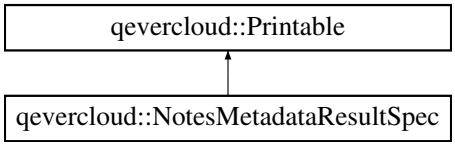
```
Optional< qint32 > qevercloud::NotesMetadataList::updateCount
```

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.

7.79 qevercloud::NotesMetadataResultSpec Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::NotesMetadataResultSpec:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NotesMetadataResultSpec &other) const
- bool operator!= (const NotesMetadataResultSpec &other) const

Public Attributes

- EverCloudLocalData localData
- 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

7.79.1 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)

7.79.2 Member Function Documentation

7.79.2.1 operator"!=()

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

7.79.2.2 operator==()

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

7.79.2.3 print()

```
virtual void qevercloud::NotesMetadataResultSpec::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.79.3 Member Data Documentation

7.79.3.1 includeAttributes

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeAttributes
```

NOT DOCUMENTED

7.79.3.2 includeContentLength

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeContentLength
```

NOT DOCUMENTED

7.79.3.3 includeCreated

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeCreated
```

NOT DOCUMENTED

7.79.3.4 includeDeleted

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeDeleted
```

NOT DOCUMENTED

7.79.3.5 includeLargestResourceMime

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeLargestResourceMime
```

NOT DOCUMENTED

7.79.3.6 includeLargestResourceSize

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeLargestResourceSize
```

NOT DOCUMENTED

7.79.3.7 includeNotebookGuid

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeNotebookGuid
```

NOT DOCUMENTED

7.79.3.8 includeTagGuids

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeTagGuids
```

NOT DOCUMENTED

7.79.3.9 includeTitle

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeTitle
```

NOT DOCUMENTED

7.79.3.10 includeUpdated

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeUpdated
```

NOT DOCUMENTED

7.79.3.11 includeUpdateSequenceNum

```
Optional< bool > qevercloud::NotesMetadataResultSpec::includeUpdateSequenceNum
```

NOT DOCUMENTED

7.79.3.12 localData

```
EverCloudLocalData qevercloud::NotesMetadataResultSpec::localData
```

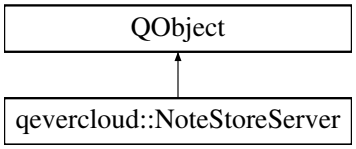
See the declaration of EverCloudLocalData for details

7.80 qevercloud::NoteStoreServer Class Reference

The NoteStoreServer class represents customizable server for NoteStore requests. It is primarily used for testing of QEverCloud.

```
#include <Servers.h>
```

Inheritance diagram for qevercloud::NoteStoreServer:



Public Slots

- void onRequest (QByteArray data)
- void onGetSyncStateRequestReady (SyncState value, EverCloudExceptionDataPtr exceptionData)
- void onGetFilteredSyncChunkRequestReady (SyncChunk value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetLinkedNotebookSyncStateRequestReady (SyncState value, EverCloudExceptionDataPtr exceptionData)
- void onGetLinkedNotebookSyncChunkRequestReady (SyncChunk value, EverCloudExceptionDataPtr exceptionData)
- void onListNotebooksRequestReady (QList< Notebook > value, EverCloudExceptionDataPtr exceptionData)
- void onListAccessibleBusinessNotebooksRequestReady (QList< Notebook > value, EverCloudException↩ DataPtr exceptionData)
- void onGetNotebookRequestReady (Notebook value, EverCloudExceptionDataPtr exceptionData)
- void onGetDefaultNotebookRequestReady (Notebook value, EverCloudExceptionDataPtr exceptionData)
- void onCreateNotebookRequestReady (Notebook value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateNotebookRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onExpungeNotebookRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onListTagsRequestReady (QList< Tag > value, EverCloudExceptionDataPtr exceptionData)
- void onListTagsByNotebookRequestReady (QList< Tag > value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetTagRequestReady (Tag value, EverCloudExceptionDataPtr exceptionData)
- void onCreateTagRequestReady (Tag value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateTagRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onUntagAllRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onExpungeTagRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onListSearchesRequestReady (QList< SavedSearch > value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetSearchRequestReady (SavedSearch value, EverCloudExceptionDataPtr exceptionData)
- void onCreateSearchRequestReady (SavedSearch value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateSearchRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)

- void onExpungeSearchRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onFindNoteOffsetRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onFindNotesMetadataRequestReady (NotesMetadataList value, EverCloudExceptionDataPtr exception↩ Data)
- void onFindNoteCountsRequestReady (NoteCollectionCounts value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetNoteWithResultSpecRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteApplicationDataRequestReady (LazyMap value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteApplicationDataEntryRequestReady (QString value, EverCloudExceptionDataPtr exception↩ Data)
- void onSetNoteApplicationDataEntryRequestReady (qint32 value, EverCloudExceptionDataPtr exception↩ Data)
- void onUnsetNoteApplicationDataEntryRequestReady (qint32 value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetNoteContentRequestReady (QString value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteSearchTextRequestReady (QString value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceSearchTextRequestReady (QString value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteTagNamesRequestReady (QStringList value, EverCloudExceptionDataPtr exceptionData)
- void onCreateNoteRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateNoteRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onDeleteNoteRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onExpungeNoteRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onCopyNoteRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onListNoteVersionsRequestReady (QList< NoteVersionId > value, EverCloudExceptionDataPtr exceptionData)
- void onGetNoteVersionRequestReady (Note value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceRequestReady (Resource value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceApplicationDataRequestReady (LazyMap value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetResourceApplicationDataEntryRequestReady (QString value, EverCloudExceptionDataPtr exceptionData)
- void onSetResourceApplicationDataEntryRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onUnsetResourceApplicationDataEntryRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateResourceRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceDataRequestReady (QByteArray value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceByHashRequestReady (Resource value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceRecognitionRequestReady (QByteArray value, EverCloudExceptionDataPtr exception↩ Data)
- void onGetResourceAlternateDataRequestReady (QByteArray value, EverCloudExceptionDataPtr exceptionData)
- void onGetResourceAttributesRequestReady (ResourceAttributes value, EverCloudExceptionDataPtr exceptionData)
- void onGetPublicNotebookRequestReady (Notebook value, EverCloudExceptionDataPtr exceptionData)
- void onShareNotebookRequestReady (SharedNotebook value, EverCloudExceptionDataPtr exceptionData)
- void onCreateOrUpdateNotebookSharesRequestReady (CreateOrUpdateNotebookSharesResult value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateSharedNotebookRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onSetNotebookRecipientSettingsRequestReady (Notebook value, EverCloudExceptionDataPtr exceptionData)
- void onListSharedNotebooksRequestReady (QList< SharedNotebook > value, EverCloudExceptionDataPtr exceptionData)
- void onCreateLinkedNotebookRequestReady (LinkedNotebook value, EverCloudExceptionDataPtr exceptionData)

- void onUpdateLinkedNotebookRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onListLinkedNotebooksRequestReady (QList< LinkedNotebook > value, EverCloudExceptionDataPtr exceptionData)
- void onExpungeLinkedNotebookRequestReady (qint32 value, EverCloudExceptionDataPtr exceptionData)
- void onAuthenticateToSharedNotebookRequestReady (AuthenticationResult value, EverCloudException↩DataPtr exceptionData)
- void onGetSharedNotebookByAuthRequestReady (SharedNotebook value, EverCloudExceptionDataPtr exceptionData)
- void onEmailNoteRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onShareNoteRequestReady (QString value, EverCloudExceptionDataPtr exceptionData)
- void onStopSharingNoteRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onAuthenticateToSharedNoteRequestReady (AuthenticationResult value, EverCloudExceptionDataPtr exceptionData)
- void onFindRelatedRequestReady (RelatedResult value, EverCloudExceptionDataPtr exceptionData)
- void onUpdateNoteIfUsnMatchesRequestReady (UpdateNoteIfUsnMatchesResult value, EverCloud↩ExceptionDataPtr exceptionData)
- void onManageNotebookSharesRequestReady (ManageNotebookSharesResult value, EverCloud↩ExceptionDataPtr exceptionData)
- void onGetNotebookSharesRequestReady (ShareRelationships value, EverCloudExceptionDataPtr exceptionData)

Signals

- void getSyncStateRequest (IRequestContextPtr ctx)
- void getFilteredSyncChunkRequest (qint32 afterUSN, qint32 maxEntries, SyncChunkFilter filter, IRequest↩ContextPtr ctx)
- void getLinkedNotebookSyncStateRequest (LinkedNotebook linkedNotebook, IRequestContextPtr ctx)
- void getLinkedNotebookSyncChunkRequest (LinkedNotebook linkedNotebook, qint32 afterUSN, qint32 maxEntries, bool fullSyncOnly, IRequestContextPtr ctx)
- void listNotebooksRequest (IRequestContextPtr ctx)
- void listAccessibleBusinessNotebooksRequest (IRequestContextPtr ctx)
- void getNotebookRequest (Guid guid, IRequestContextPtr ctx)
- void getDefaultNotebookRequest (IRequestContextPtr ctx)
- void createNotebookRequest (Notebook notebook, IRequestContextPtr ctx)
- void updateNotebookRequest (Notebook notebook, IRequestContextPtr ctx)
- void expungeNotebookRequest (Guid guid, IRequestContextPtr ctx)
- void listTagsRequest (IRequestContextPtr ctx)
- void listTagsByNotebookRequest (Guid notebookGuid, IRequestContextPtr ctx)
- void getTagRequest (Guid guid, IRequestContextPtr ctx)
- void createTagRequest (Tag tag, IRequestContextPtr ctx)
- void updateTagRequest (Tag tag, IRequestContextPtr ctx)
- void untagAllRequest (Guid guid, IRequestContextPtr ctx)
- void expungeTagRequest (Guid guid, IRequestContextPtr ctx)
- void listSearchesRequest (IRequestContextPtr ctx)
- void getSearchRequest (Guid guid, IRequestContextPtr ctx)
- void createSearchRequest (SavedSearch search, IRequestContextPtr ctx)
- void updateSearchRequest (SavedSearch search, IRequestContextPtr ctx)
- void expungeSearchRequest (Guid guid, IRequestContextPtr ctx)
- void findNoteOffsetRequest (NoteFilter filter, Guid guid, IRequestContextPtr ctx)
- void findNotesMetadataRequest (NoteFilter filter, qint32 offset, qint32 maxNotes, NotesMetadataResultSpec resultSpec, IRequestContextPtr ctx)
- void findNoteCountsRequest (NoteFilter filter, bool withTrash, IRequestContextPtr ctx)
- void getNoteWithResultSpecRequest (Guid guid, NoteResultSpec resultSpec, IRequestContextPtr ctx)

- void getNoteRequest (Guid guid, bool withContent, bool withResourcesData, bool withResources↩ Recognition, bool withResourcesAlternateData, IRequestContextPtr ctx)
- void getNoteApplicationDataRequest (Guid guid, IRequestContextPtr ctx)
- void getNoteApplicationDataEntryRequest (Guid guid, QString key, IRequestContextPtr ctx)
- void setNoteApplicationDataEntryRequest (Guid guid, QString key, QString value, IRequestContextPtr ctx)
- void unsetNoteApplicationDataEntryRequest (Guid guid, QString key, IRequestContextPtr ctx)
- void getNoteContentRequest (Guid guid, IRequestContextPtr ctx)
- void getNoteSearchTextRequest (Guid guid, bool noteOnly, bool tokenizeForIndexing, IRequestContextPtr ctx)
- void getResourceSearchTextRequest (Guid guid, IRequestContextPtr ctx)
- void getNoteTagNamesRequest (Guid guid, IRequestContextPtr ctx)
- void createNoteRequest (Note note, IRequestContextPtr ctx)
- void updateNoteRequest (Note note, IRequestContextPtr ctx)
- void deleteNoteRequest (Guid guid, IRequestContextPtr ctx)
- void expungeNoteRequest (Guid guid, IRequestContextPtr ctx)
- void copyNoteRequest (Guid noteGuid, Guid toNotebookGuid, IRequestContextPtr ctx)
- void listNoteVersionsRequest (Guid noteGuid, IRequestContextPtr ctx)
- void getNoteVersionRequest (Guid noteGuid, qint32 updateSequenceNum, bool withResourcesData, bool withResourcesRecognition, bool withResourcesAlternateData, IRequestContextPtr ctx)
- void getResourceRequest (Guid guid, bool withData, bool withRecognition, bool withAttributes, bool with↩ AlternateData, IRequestContextPtr ctx)
- void getResourceApplicationDataRequest (Guid guid, IRequestContextPtr ctx)
- void getResourceApplicationDataEntryRequest (Guid guid, QString key, IRequestContextPtr ctx)
- void setResourceApplicationDataEntryRequest (Guid guid, QString key, QString value, IRequestContextPtr ctx)
- void unsetResourceApplicationDataEntryRequest (Guid guid, QString key, IRequestContextPtr ctx)
- void updateResourceRequest (Resource resource, IRequestContextPtr ctx)
- void getResourceDataRequest (Guid guid, IRequestContextPtr ctx)
- void getResourceByHashRequest (Guid noteGuid, QByteArray contentHash, bool withData, bool with↩ Recognition, bool withAlternateData, IRequestContextPtr ctx)
- void getResourceRecognitionRequest (Guid guid, IRequestContextPtr ctx)
- void getResourceAlternateDataRequest (Guid guid, IRequestContextPtr ctx)
- void getResourceAttributesRequest (Guid guid, IRequestContextPtr ctx)
- void getPublicNotebookRequest (UserID userId, QString publicUri, IRequestContextPtr ctx)
- void shareNotebookRequest (SharedNotebook sharedNotebook, QString message, IRequestContextPtr ctx)
- void createOrUpdateNotebookSharesRequest (NotebookShareTemplate shareTemplate, IRequestContext↩ Ptr ctx)
- void updateSharedNotebookRequest (SharedNotebook sharedNotebook, IRequestContextPtr ctx)
- void setNotebookRecipientSettingsRequest (QString notebookGuid, NotebookRecipientSettings recipient↩ Settings, IRequestContextPtr ctx)
- void listSharedNotebooksRequest (IRequestContextPtr ctx)
- void createLinkedNotebookRequest (LinkedNotebook linkedNotebook, IRequestContextPtr ctx)
- void updateLinkedNotebookRequest (LinkedNotebook linkedNotebook, IRequestContextPtr ctx)
- void listLinkedNotebooksRequest (IRequestContextPtr ctx)
- void expungeLinkedNotebookRequest (Guid guid, IRequestContextPtr ctx)
- void authenticateToSharedNotebookRequest (QString shareKeyOrGlobalId, IRequestContextPtr ctx)
- void getSharedNotebookByAuthRequest (IRequestContextPtr ctx)
- void emailNoteRequest (NoteEmailParameters parameters, IRequestContextPtr ctx)
- void shareNoteRequest (Guid guid, IRequestContextPtr ctx)
- void stopSharingNoteRequest (Guid guid, IRequestContextPtr ctx)
- void authenticateToSharedNoteRequest (QString guid, QString noteKey, IRequestContextPtr ctx)
- void findRelatedRequest (RelatedQuery query, RelatedResultSpec resultSpec, IRequestContextPtr ctx)
- void updateNoteIfUsnMatchesRequest (Note note, IRequestContextPtr ctx)
- void manageNotebookSharesRequest (ManageNotebookSharesParameters parameters, IRequestContext↩ Ptr ctx)

- void getNotebookSharesRequest (QString notebookGuid, IRequestContextPtr ctx)
- void getSyncStateRequestReady (QByteArray data)
- void getFilteredSyncChunkRequestReady (QByteArray data)
- void getLinkedNotebookSyncStateRequestReady (QByteArray data)
- void getLinkedNotebookSyncChunkRequestReady (QByteArray data)
- void listNotebooksRequestReady (QByteArray data)
- void listAccessibleBusinessNotebooksRequestReady (QByteArray data)
- void getNotebookRequestReady (QByteArray data)
- void getDefaultNotebookRequestReady (QByteArray data)
- void createNotebookRequestReady (QByteArray data)
- void updateNotebookRequestReady (QByteArray data)
- void expungeNotebookRequestReady (QByteArray data)
- void listTagsRequestReady (QByteArray data)
- void listTagsByNotebookRequestReady (QByteArray data)
- void getTagRequestReady (QByteArray data)
- void createTagRequestReady (QByteArray data)
- void updateTagRequestReady (QByteArray data)
- void untagAllRequestReady (QByteArray data)
- void expungeTagRequestReady (QByteArray data)
- void listSearchesRequestReady (QByteArray data)
- void getSearchRequestReady (QByteArray data)
- void createSearchRequestReady (QByteArray data)
- void updateSearchRequestReady (QByteArray data)
- void expungeSearchRequestReady (QByteArray data)
- void findNoteOffsetRequestReady (QByteArray data)
- void findNotesMetadataRequestReady (QByteArray data)
- void findNoteCountsRequestReady (QByteArray data)
- void getNoteWithResultSpecRequestReady (QByteArray data)
- void getNoteRequestReady (QByteArray data)
- void getNoteApplicationDataRequestReady (QByteArray data)
- void getNoteApplicationDataEntryRequestReady (QByteArray data)
- void setNoteApplicationDataEntryRequestReady (QByteArray data)
- void unsetNoteApplicationDataEntryRequestReady (QByteArray data)
- void getNoteContentRequestReady (QByteArray data)
- void getNoteSearchTextRequestReady (QByteArray data)
- void getResourceSearchTextRequestReady (QByteArray data)
- void getNoteTagNamesRequestReady (QByteArray data)
- void createNoteRequestReady (QByteArray data)
- void updateNoteRequestReady (QByteArray data)
- void deleteNoteRequestReady (QByteArray data)
- void expungeNoteRequestReady (QByteArray data)
- void copyNoteRequestReady (QByteArray data)
- void listNoteVersionsRequestReady (QByteArray data)
- void getNoteVersionRequestReady (QByteArray data)
- void getResourceRequestReady (QByteArray data)
- void getResourceApplicationDataRequestReady (QByteArray data)
- void getResourceApplicationDataEntryRequestReady (QByteArray data)
- void setResourceApplicationDataEntryRequestReady (QByteArray data)
- void unsetResourceApplicationDataEntryRequestReady (QByteArray data)
- void updateResourceRequestReady (QByteArray data)
- void getResourceDataRequestReady (QByteArray data)
- void getResourceByHashRequestReady (QByteArray data)
- void getResourceRecognitionRequestReady (QByteArray data)
- void getResourceAlternateDataRequestReady (QByteArray data)
- void getResourceAttributesRequestReady (QByteArray data)

- void getPublicNotebookRequestReady (QByteArray data)
- void shareNotebookRequestReady (QByteArray data)
- void createOrUpdateNotebookSharesRequestReady (QByteArray data)
- void updateSharedNotebookRequestReady (QByteArray data)
- void setNotebookRecipientSettingsRequestReady (QByteArray data)
- void listSharedNotebooksRequestReady (QByteArray data)
- void createLinkedNotebookRequestReady (QByteArray data)
- void updateLinkedNotebookRequestReady (QByteArray data)
- void listLinkedNotebooksRequestReady (QByteArray data)
- void expungeLinkedNotebookRequestReady (QByteArray data)
- void authenticateToSharedNotebookRequestReady (QByteArray data)
- void getSharedNotebookByAuthRequestReady (QByteArray data)
- void emailNoteRequestReady (QByteArray data)
- void shareNoteRequestReady (QByteArray data)
- void stopSharingNoteRequestReady (QByteArray data)
- void authenticateToSharedNoteRequestReady (QByteArray data)
- void findRelatedRequestReady (QByteArray data)
- void updateNoteIfUsnMatchesRequestReady (QByteArray data)
- void manageNotebookSharesRequestReady (QByteArray data)
- void getNotebookSharesRequestReady (QByteArray data)

Public Member Functions

- NoteStoreServer (QObject *parent=nullptr)

7.80.1 Detailed Description

The NoteStoreServer class represents customizable server for NoteStore requests. It is primarily used for testing of QEverCloud.

7.80.2 Constructor & Destructor Documentation

7.80.2.1 NoteStoreServer()

```
qevercloud::NoteStoreServer::NoteStoreServer (
            QObject * parent = nullptr )  [explicit]
```

7.80.3 Member Function Documentation

7.80.3.1 authenticateToSharedNotebookRequest

```
void qevercloud::NoteStoreServer::authenticateToSharedNotebookRequest (
            QString shareKeyOrGlobalId,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.2 authenticateToSharedNotebookRequestReady

```
void qevercloud::NoteStoreServer::authenticateToSharedNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.3 authenticateToSharedNoteRequest

```
void qevercloud::NoteStoreServer::authenticateToSharedNoteRequest (
            QString guid,
            QString noteKey,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.4 authenticateToSharedNoteRequestReady

```
void qevercloud::NoteStoreServer::authenticateToSharedNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.5 copyNoteRequest

```
void qevercloud::NoteStoreServer::copyNoteRequest (
            Guid noteGuid,
            Guid toNotebookGuid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.6 copyNoteRequestReady

```
void qevercloud::NoteStoreServer::copyNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.7 createLinkedNotebookRequest

```
void qevercloud::NoteStoreServer::createLinkedNotebookRequest (
            LinkedNotebook linkedNotebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.8 createLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::createLinkedNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.9 createNotebookRequest

```
void qevercloud::NoteStoreServer::createNotebookRequest (
            Notebook notebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.10 createNotebookRequestReady

```
void qevercloud::NoteStoreServer::createNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.11 createNoteRequest

```
void qevercloud::NoteStoreServer::createNoteRequest (
            Note note,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.12 createNoteRequestReady

```
void qevercloud::NoteStoreServer::createNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.13 createOrUpdateNotebookSharesRequest

```
void qevercloud::NoteStoreServer::createOrUpdateNotebookSharesRequest (
            NotebookShareTemplate shareTemplate,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.14 createOrUpdateNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::createOrUpdateNotebookSharesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.15 createSearchRequest

```
void qevercloud::NoteStoreServer::createSearchRequest (
            SavedSearch search,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.16 createSearchRequestReady

```
void qevercloud::NoteStoreServer::createSearchRequestReady (
            QByteArray data )  [signal]
```

7.80.3.17 createTagRequest

```
void qevercloud::NoteStoreServer::createTagRequest (
            Tag tag,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.18 createTagRequestReady

```
void qevercloud::NoteStoreServer::createTagRequestReady (
            QByteArray data )  [signal]
```

7.80.3.19 deleteNoteRequest

```
void qevercloud::NoteStoreServer::deleteNoteRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.20 deleteNoteRequestReady

```
void qevercloud::NoteStoreServer::deleteNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.21 emailNoteRequest

```
void qevercloud::NoteStoreServer::emailNoteRequest (
            NoteEmailParameters parameters,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.22 emailNoteRequestReady

```
void qevercloud::NoteStoreServer::emailNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.23 expungeLinkedNotebookRequest

```
void qevercloud::NoteStoreServer::expungeLinkedNotebookRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.24 expungeLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::expungeLinkedNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.25 expungeNotebookRequest

```
void qevercloud::NoteStoreServer::expungeNotebookRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.26 expungeNotebookRequestReady

```
void qevercloud::NoteStoreServer::expungeNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.27 expungeNoteRequest

```
void qevercloud::NoteStoreServer::expungeNoteRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.28 expungeNoteRequestReady

```
void qevercloud::NoteStoreServer::expungeNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.29 expungeSearchRequest

```
void qevercloud::NoteStoreServer::expungeSearchRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.30 expungeSearchRequestReady

```
void qevercloud::NoteStoreServer::expungeSearchRequestReady (
            QByteArray data )  [signal]
```

7.80.3.31 expungeTagRequest

```
void qevercloud::NoteStoreServer::expungeTagRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.32 expungeTagRequestReady

```
void qevercloud::NoteStoreServer::expungeTagRequestReady (
            QByteArray data )  [signal]
```

7.80.3.33 findNoteCountsRequest

```
void qevercloud::NoteStoreServer::findNoteCountsRequest (
            NoteFilter filter,
            bool withTrash,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.34 findNoteCountsRequestReady

```
void qevercloud::NoteStoreServer::findNoteCountsRequestReady (
            QByteArray data )  [signal]
```

7.80.3.35 findNoteOffsetRequest

```
void qevercloud::NoteStoreServer::findNoteOffsetRequest (
            NoteFilter filter,
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.36 findNoteOffsetRequestReady

```
void qevercloud::NoteStoreServer::findNoteOffsetRequestReady (
            QByteArray data )  [signal]
```

7.80.3.37 findNotesMetadataRequest

```
void qevercloud::NoteStoreServer::findNotesMetadataRequest (
            NoteFilter filter,
            qint32 offset,
            qint32 maxNotes,
            NotesMetadataResultSpec resultSpec,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.38 findNotesMetadataRequestReady

```
void qevercloud::NoteStoreServer::findNotesMetadataRequestReady (
            QByteArray data )  [signal]
```

7.80.3.39 findRelatedRequest

```
void qevercloud::NoteStoreServer::findRelatedRequest (
            RelatedQuery query,
            RelatedResultSpec resultSpec,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.40 findRelatedRequestReady

```
void qevercloud::NoteStoreServer::findRelatedRequestReady (
            QByteArray data )  [signal]
```

7.80.3.41 getDefaultNotebookRequest

```
void qevercloud::NoteStoreServer::getDefaultNotebookRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.42 getDefaultNotebookRequestReady

```
void qevercloud::NoteStoreServer::getDefaultNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.43 getFilteredSyncChunkRequest

```
void qevercloud::NoteStoreServer::getFilteredSyncChunkRequest (
            qint32 afterUSN,
            qint32 maxEntries,
            SyncChunkFilter filter,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.44 getFilteredSyncChunkRequestReady

```
void qevercloud::NoteStoreServer::getFilteredSyncChunkRequestReady (
            QByteArray data )  [signal]
```

7.80.3.45 getLinkedNotebookSyncChunkRequest

```
void qevercloud::NoteStoreServer::getLinkedNotebookSyncChunkRequest (
            LinkedNotebook linkedNotebook,
            qint32 afterUSN,
            qint32 maxEntries,
            bool fullSyncOnly,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.46 getLinkedNotebookSyncChunkRequestReady

```
void qevercloud::NoteStoreServer::getLinkedNotebookSyncChunkRequestReady (
            QByteArray data )  [signal]
```

7.80.3.47 getLinkedNotebookSyncStateRequest

```
void qevercloud::NoteStoreServer::getLinkedNotebookSyncStateRequest (
            LinkedNotebook linkedNotebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.48 getLinkedNotebookSyncStateRequestReady

```
void qevercloud::NoteStoreServer::getLinkedNotebookSyncStateRequestReady (
            QByteArray data )  [signal]
```

7.80.3.49 getNoteApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::getNoteApplicationDataEntryRequest (
            Guid guid,
            QString key,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.50 getNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::getNoteApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.51 getNoteApplicationDataRequest

```
void qevercloud::NoteStoreServer::getNoteApplicationDataRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.52 getNoteApplicationDataRequestReady

```
void qevercloud::NoteStoreServer::getNoteApplicationDataRequestReady (
            QByteArray data )  [signal]
```

7.80.3.53 getNotebookRequest

```
void qevercloud::NoteStoreServer::getNotebookRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.54 getNotebookRequestReady

```
void qevercloud::NoteStoreServer::getNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.55 getNotebookSharesRequest

```
void qevercloud::NoteStoreServer::getNotebookSharesRequest (
            QString notebookGuid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.56 getNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::getNotebookSharesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.57 getNoteContentRequest

```
void qevercloud::NoteStoreServer::getNoteContentRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.58 getNoteContentRequestReady

```
void qevercloud::NoteStoreServer::getNoteContentRequestReady (
            QByteArray data )  [signal]
```

7.80.3.59 getNoteRequest

```
void qevercloud::NoteStoreServer::getNoteRequest (
            Guid guid,
            bool withContent,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.60 getNoteRequestReady

```
void qevercloud::NoteStoreServer::getNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.61 getNoteSearchTextRequest

```
void qevercloud::NoteStoreServer::getNoteSearchTextRequest (
            Guid guid,
            bool noteOnly,
            bool tokenizeForIndexing,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.62 getNoteSearchTextRequestReady

```
void qevercloud::NoteStoreServer::getNoteSearchTextRequestReady (
            QByteArray data )  [signal]
```

7.80.3.63 getNoteTagNamesRequest

```
void qevercloud::NoteStoreServer::getNoteTagNamesRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.64 getNoteTagNamesRequestReady

```
void qevercloud::NoteStoreServer::getNoteTagNamesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.65 getNoteVersionRequest

```
void qevercloud::NoteStoreServer::getNoteVersionRequest (
            Guid noteGuid,
            qint32 updateSequenceNum,
            bool withResourcesData,
            bool withResourcesRecognition,
            bool withResourcesAlternateData,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.66 getNoteVersionRequestReady

```
void qevercloud::NoteStoreServer::getNoteVersionRequestReady (
            QByteArray data )  [signal]
```

7.80.3.67 getNoteWithResultSpecRequest

```
void qevercloud::NoteStoreServer::getNoteWithResultSpecRequest (
            Guid guid,
            NoteResultSpec resultSpec,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.68 getNoteWithResultSpecRequestReady

```
void qevercloud::NoteStoreServer::getNoteWithResultSpecRequestReady (
            QByteArray data )  [signal]
```

7.80.3.69 getPublicNotebookRequest

```
void qevercloud::NoteStoreServer::getPublicNotebookRequest (
            UserID userId,
            QString publicUri,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.70 getPublicNotebookRequestReady

```
void qevercloud::NoteStoreServer::getPublicNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.71 getResourceAlternateDataRequest

```
void qevercloud::NoteStoreServer::getResourceAlternateDataRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.72 getResourceAlternateDataRequestReady

```
void qevercloud::NoteStoreServer::getResourceAlternateDataRequestReady (
            QByteArray data )  [signal]
```

7.80.3.73 getResourceApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::getResourceApplicationDataEntryRequest (
            Guid guid,
            QString key,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.74 getResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::getResourceApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.75 getResourceApplicationDataRequest

```
void qevercloud::NoteStoreServer::getResourceApplicationDataRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.76 getResourceApplicationDataRequestReady

```
void qevercloud::NoteStoreServer::getResourceApplicationDataRequestReady (
            QByteArray data )  [signal]
```

7.80.3.77 getResourceAttributesRequest

```
void qevercloud::NoteStoreServer::getResourceAttributesRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.78 getResourceAttributesRequestReady

```
void qevercloud::NoteStoreServer::getResourceAttributesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.79 getResourceByHashRequest

```
void qevercloud::NoteStoreServer::getResourceByHashRequest (
            Guid noteGuid,
            QByteArray contentHash,
            bool withData,
            bool withRecognition,
            bool withAlternateData,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.80 getResourceByHashRequestReady

```
void qevercloud::NoteStoreServer::getResourceByHashRequestReady (
            QByteArray data )  [signal]
```

7.80.3.81 getResourceDataRequest

```
void qevercloud::NoteStoreServer::getResourceDataRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.82 getResourceDataRequestReady

```
void qevercloud::NoteStoreServer::getResourceDataRequestReady (
            QByteArray data )  [signal]
```

7.80.3.83 getResourceRecognitionRequest

```
void qevercloud::NoteStoreServer::getResourceRecognitionRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.84 getResourceRecognitionRequestReady

```
void qevercloud::NoteStoreServer::getResourceRecognitionRequestReady (
            QByteArray data )  [signal]
```

7.80.3.85 getResourceRequest

```
void qevercloud::NoteStoreServer::getResourceRequest (
            Guid guid,
            bool withData,
            bool withRecognition,
            bool withAttributes,
            bool withAlternateData,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.86 getResourceRequestReady

```
void qevercloud::NoteStoreServer::getResourceRequestReady (
            QByteArray data )  [signal]
```

7.80.3.87 getResourceSearchTextRequest

```
void qevercloud::NoteStoreServer::getResourceSearchTextRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.88 getResourceSearchTextRequestReady

```
void qevercloud::NoteStoreServer::getResourceSearchTextRequestReady (
            QByteArray data )  [signal]
```

7.80.3.89 getSearchRequest

```
void qevercloud::NoteStoreServer::getSearchRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.90 getSearchRequestReady

```
void qevercloud::NoteStoreServer::getSearchRequestReady (
            QByteArray data )  [signal]
```

7.80.3.91 getSharedNotebookByAuthRequest

```
void qevercloud::NoteStoreServer::getSharedNotebookByAuthRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.92 getSharedNotebookByAuthRequestReady

```
void qevercloud::NoteStoreServer::getSharedNotebookByAuthRequestReady (
            QByteArray data )  [signal]
```

7.80.3.93 getSyncStateRequest

```
void qevercloud::NoteStoreServer::getSyncStateRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.94 getSyncStateRequestReady

```
void qevercloud::NoteStoreServer::getSyncStateRequestReady (
            QByteArray data )  [signal]
```

7.80.3.95 getTagRequest

```
void qevercloud::NoteStoreServer::getTagRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.96 getTagRequestReady

```
void qevercloud::NoteStoreServer::getTagRequestReady (
            QByteArray data )  [signal]
```

7.80.3.97 listAccessibleBusinessNotebooksRequest

```
void qevercloud::NoteStoreServer::listAccessibleBusinessNotebooksRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.98 listAccessibleBusinessNotebooksRequestReady

```
void qevercloud::NoteStoreServer::listAccessibleBusinessNotebooksRequestReady (
            QByteArray data )  [signal]
```

7.80.3.99 listLinkedNotebooksRequest

```
void qevercloud::NoteStoreServer::listLinkedNotebooksRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.100 listLinkedNotebooksRequestReady

```
void qevercloud::NoteStoreServer::listLinkedNotebooksRequestReady (
            QByteArray data )  [signal]
```

7.80.3.101 listNotebooksRequest

```
void qevercloud::NoteStoreServer::listNotebooksRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.102 listNotebooksRequestReady

```
void qevercloud::NoteStoreServer::listNotebooksRequestReady (
            QByteArray data )  [signal]
```

7.80.3.103 listNoteVersionsRequest

```
void qevercloud::NoteStoreServer::listNoteVersionsRequest (
            Guid noteGuid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.104 listNoteVersionsRequestReady

```
void qevercloud::NoteStoreServer::listNoteVersionsRequestReady (
            QByteArray data )  [signal]
```

7.80.3.105 listSearchesRequest

```
void qevercloud::NoteStoreServer::listSearchesRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.106 listSearchesRequestReady

```
void qevercloud::NoteStoreServer::listSearchesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.107 listSharedNotebooksRequest

```
void qevercloud::NoteStoreServer::listSharedNotebooksRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.108 listSharedNotebooksRequestReady

```
void qevercloud::NoteStoreServer::listSharedNotebooksRequestReady (
            QByteArray data )  [signal]
```

7.80.3.109 listTagsByNotebookRequest

```
void qevercloud::NoteStoreServer::listTagsByNotebookRequest (
            Guid notebookGuid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.110 listTagsByNotebookRequestReady

```
void qevercloud::NoteStoreServer::listTagsByNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.111 listTagsRequest

```
void qevercloud::NoteStoreServer::listTagsRequest (
            IRequestContextPtr ctx )  [signal]
```

7.80.3.112 listTagsRequestReady

```
void qevercloud::NoteStoreServer::listTagsRequestReady (
            QByteArray data )  [signal]
```

7.80.3.113 manageNotebookSharesRequest

```
void qevercloud::NoteStoreServer::manageNotebookSharesRequest (
            ManageNotebookSharesParameters parameters,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.114 manageNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::manageNotebookSharesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.115 onAuthenticateToSharedNotebookRequestReady

```
void qevercloud::NoteStoreServer::onAuthenticateToSharedNotebookRequestReady (
            AuthenticationResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.116 onAuthenticateToSharedNoteRequestReady

```
void qevercloud::NoteStoreServer::onAuthenticateToSharedNoteRequestReady (
            AuthenticationResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.117 onCopyNoteRequestReady

```
void qevercloud::NoteStoreServer::onCopyNoteRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.118 onCreateLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::onCreateLinkedNotebookRequestReady (
            LinkedNotebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.119 onCreateNotebookRequestReady

```
void qevercloud::NoteStoreServer::onCreateNotebookRequestReady (
            Notebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.120 onCreateNoteRequestReady

```
void qevercloud::NoteStoreServer::onCreateNoteRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.121 onCreateOrUpdateNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::onCreateOrUpdateNotebookSharesRequestReady (
            CreateOrUpdateNotebookSharesResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.122 onCreateSearchRequestReady

```
void qevercloud::NoteStoreServer::onCreateSearchRequestReady (
            SavedSearch value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.123 onCreateTagRequestReady

```
void qevercloud::NoteStoreServer::onCreateTagRequestReady (
            Tag value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.124 onDeleteNoteRequestReady

```
void qevercloud::NoteStoreServer::onDeleteNoteRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.125 onEmailNoteRequestReady

```
void qevercloud::NoteStoreServer::onEmailNoteRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.126 onExpungeLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::onExpungeLinkedNotebookRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.127 onExpungeNotebookRequestReady

```
void qevercloud::NoteStoreServer::onExpungeNotebookRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.128 onExpungeNoteRequestReady

```
void qevercloud::NoteStoreServer::onExpungeNoteRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.129 onExpungeSearchRequestReady

```
void qevercloud::NoteStoreServer::onExpungeSearchRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.130 onExpungeTagRequestReady

```
void qevercloud::NoteStoreServer::onExpungeTagRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.131 onFindNoteCountsRequestReady

```
void qevercloud::NoteStoreServer::onFindNoteCountsRequestReady (
            NoteCollectionCounts value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.132 onFindNoteOffsetRequestReady

```
void qevercloud::NoteStoreServer::onFindNoteOffsetRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.133 onFindNotesMetadataRequestReady

```
void qevercloud::NoteStoreServer::onFindNotesMetadataRequestReady (
            NotesMetadataList value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.134 onFindRelatedRequestReady

```
void qevercloud::NoteStoreServer::onFindRelatedRequestReady (
            RelatedResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.135 onGetDefaultNotebookRequestReady

```
void qevercloud::NoteStoreServer::onGetDefaultNotebookRequestReady (
            Notebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.136 onGetFilteredSyncChunkRequestReady

```
void qevercloud::NoteStoreServer::onGetFilteredSyncChunkRequestReady (
            SyncChunk value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.137 onGetLinkedNotebookSyncChunkRequestReady

```
void qevercloud::NoteStoreServer::onGetLinkedNotebookSyncChunkRequestReady (
            SyncChunk value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.138 onGetLinkedNotebookSyncStateRequestReady

```
void qevercloud::NoteStoreServer::onGetLinkedNotebookSyncStateRequestReady (
            SyncState value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.139 onGetNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteApplicationDataEntryRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.140 onGetNoteApplicationDataRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteApplicationDataRequestReady (
            LazyMap value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.141 onGetNotebookRequestReady

```
void qevercloud::NoteStoreServer::onGetNotebookRequestReady (
            Notebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.142 onGetNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::onGetNotebookSharesRequestReady (
            ShareRelationships value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.143 onGetNoteContentRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteContentRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.144 onGetNoteRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.145 onGetNoteSearchTextRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteSearchTextRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.146 onGetNoteTagNamesRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteTagNamesRequestReady (
            QStringList value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.147 onGetNoteVersionRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteVersionRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.148 onGetNoteWithResultSpecRequestReady

```
void qevercloud::NoteStoreServer::onGetNoteWithResultSpecRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.149 onGetPublicNotebookRequestReady

```
void qevercloud::NoteStoreServer::onGetPublicNotebookRequestReady (
            Notebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.150 onGetResourceAlternateDataRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceAlternateDataRequestReady (
            QByteArray value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.151 onGetResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceApplicationDataEntryRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.152 onGetResourceApplicationDataRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceApplicationDataRequestReady (
            LazyMap value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.153 onGetResourceAttributesRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceAttributesRequestReady (
            ResourceAttributes value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.154 onGetResourceByHashRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceByHashRequestReady (
            Resource value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.155 onGetResourceDataRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceDataRequestReady (
            QByteArray value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.156 onGetResourceRecognitionRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceRecognitionRequestReady (
            QByteArray value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.157 onGetResourceRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceRequestReady (
            Resource value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.158 onGetResourceSearchTextRequestReady

```
void qevercloud::NoteStoreServer::onGetResourceSearchTextRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.159 onGetSearchRequestReady

```
void qevercloud::NoteStoreServer::onGetSearchRequestReady (
            SavedSearch value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.160 onGetSharedNotebookByAuthRequestReady

```
void qevercloud::NoteStoreServer::onGetSharedNotebookByAuthRequestReady (
            SharedNotebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.161 onGetSyncStateRequestReady

```
void qevercloud::NoteStoreServer::onGetSyncStateRequestReady (
            SyncState value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.162 onGetTagRequestReady

```
void qevercloud::NoteStoreServer::onGetTagRequestReady (
            Tag value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.163 onListAccessibleBusinessNotebooksRequestReady

```
void qevercloud::NoteStoreServer::onListAccessibleBusinessNotebooksRequestReady (
            QList< Notebook > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.164 onListLinkedNotebooksRequestReady

```
void qevercloud::NoteStoreServer::onListLinkedNotebooksRequestReady (
            QList< LinkedNotebook > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.165 onListNotebooksRequestReady

```
void qevercloud::NoteStoreServer::onListNotebooksRequestReady (
            QList< Notebook > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.166 onListNoteVersionsRequestReady

```
void qevercloud::NoteStoreServer::onListNoteVersionsRequestReady (
            QList< NoteVersionId > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.167 onListSearchesRequestReady

```
void qevercloud::NoteStoreServer::onListSearchesRequestReady (
            QList< SavedSearch > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.168 onListSharedNotebooksRequestReady

```
void qevercloud::NoteStoreServer::onListSharedNotebooksRequestReady (
            QList< SharedNotebook > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.169 onListTagsByNotebookRequestReady

```
void qevercloud::NoteStoreServer::onListTagsByNotebookRequestReady (
            QList< Tag > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.170 onListTagsRequestReady

```
void qevercloud::NoteStoreServer::onListTagsRequestReady (
            QList< Tag > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.171 onManageNotebookSharesRequestReady

```
void qevercloud::NoteStoreServer::onManageNotebookSharesRequestReady (
            ManageNotebookSharesResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.172 onRequest

```
void qevercloud::NoteStoreServer::onRequest (
            QByteArray data )  [slot]
```

7.80.3.173 onSetNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onSetNoteApplicationDataEntryRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.174 onSetNotebookRecipientSettingsRequestReady

```
void qevercloud::NoteStoreServer::onSetNotebookRecipientSettingsRequestReady (
            Notebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.175 onSetResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onSetResourceApplicationDataEntryRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.176 onShareNotebookRequestReady

```
void qevercloud::NoteStoreServer::onShareNotebookRequestReady (
            SharedNotebook value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.177 onShareNoteRequestReady

```
void qevercloud::NoteStoreServer::onShareNoteRequestReady (
            QString value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.178 onStopSharingNoteRequestReady

```
void qevercloud::NoteStoreServer::onStopSharingNoteRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.179 onUnsetNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onUnsetNoteApplicationDataEntryRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.180 onUnsetResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::onUnsetResourceApplicationDataEntryRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.181 onUntagAllRequestReady

```
void qevercloud::NoteStoreServer::onUntagAllRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.182 onUpdateLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::onUpdateLinkedNotebookRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.183 onUpdateNotebookRequestReady

```
void qevercloud::NoteStoreServer::onUpdateNotebookRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.184 onUpdateNoteIfUsnMatchesRequestReady

```
void qevercloud::NoteStoreServer::onUpdateNoteIfUsnMatchesRequestReady (
            UpdateNoteIfUsnMatchesResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.185 onUpdateNoteRequestReady

```
void qevercloud::NoteStoreServer::onUpdateNoteRequestReady (
            Note value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.186 onUpdateResourceRequestReady

```
void qevercloud::NoteStoreServer::onUpdateResourceRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.187 onUpdateSearchRequestReady

```
void qevercloud::NoteStoreServer::onUpdateSearchRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.188 onUpdateSharedNotebookRequestReady

```
void qevercloud::NoteStoreServer::onUpdateSharedNotebookRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.189 onUpdateTagRequestReady

```
void qevercloud::NoteStoreServer::onUpdateTagRequestReady (
            qint32 value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.80.3.190 setNoteApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::setNoteApplicationDataEntryRequest (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.191 setNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::setNoteApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.192 setNotebookRecipientSettingsRequest

```
void qevercloud::NoteStoreServer::setNotebookRecipientSettingsRequest (
            QString notebookGuid,
            NotebookRecipientSettings recipientSettings,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.193 setNotebookRecipientSettingsRequestReady

```
void qevercloud::NoteStoreServer::setNotebookRecipientSettingsRequestReady (
            QByteArray data )  [signal]
```

7.80.3.194 setResourceApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::setResourceApplicationDataEntryRequest (
            Guid guid,
            QString key,
            QString value,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.195 setResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::setResourceApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.196 shareNotebookRequest

```
void qevercloud::NoteStoreServer::shareNotebookRequest (
            SharedNotebook sharedNotebook,
            QString message,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.197 shareNotebookRequestReady

```
void qevercloud::NoteStoreServer::shareNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.198 shareNoteRequest

```
void qevercloud::NoteStoreServer::shareNoteRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.199 shareNoteRequestReady

```
void qevercloud::NoteStoreServer::shareNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.200 stopSharingNoteRequest

```
void qevercloud::NoteStoreServer::stopSharingNoteRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.201 stopSharingNoteRequestReady

```
void qevercloud::NoteStoreServer::stopSharingNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.202 unsetNoteApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::unsetNoteApplicationDataEntryRequest (
            Guid guid,
            QString key,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.203 unsetNoteApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::unsetNoteApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.204 unsetResourceApplicationDataEntryRequest

```
void qevercloud::NoteStoreServer::unsetResourceApplicationDataEntryRequest (
            Guid guid,
            QString key,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.205 unsetResourceApplicationDataEntryRequestReady

```
void qevercloud::NoteStoreServer::unsetResourceApplicationDataEntryRequestReady (
            QByteArray data )  [signal]
```

7.80.3.206 untagAllRequest

```
void qevercloud::NoteStoreServer::untagAllRequest (
            Guid guid,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.207 untagAllRequestReady

```
void qevercloud::NoteStoreServer::untagAllRequestReady (
            QByteArray data )  [signal]
```

7.80.3.208 updateLinkedNotebookRequest

```
void qevercloud::NoteStoreServer::updateLinkedNotebookRequest (
            LinkedNotebook linkedNotebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.209 updateLinkedNotebookRequestReady

```
void qevercloud::NoteStoreServer::updateLinkedNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.210 updateNotebookRequest

```
void qevercloud::NoteStoreServer::updateNotebookRequest (
            Notebook notebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.211 updateNotebookRequestReady

```
void qevercloud::NoteStoreServer::updateNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.212 updateNoteIfUsnMatchesRequest

```
void qevercloud::NoteStoreServer::updateNoteIfUsnMatchesRequest (
            Note note,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.213 updateNoteIfUsnMatchesRequestReady

```
void qevercloud::NoteStoreServer::updateNoteIfUsnMatchesRequestReady (
            QByteArray data )  [signal]
```

7.80.3.214 updateNoteRequest

```
void qevercloud::NoteStoreServer::updateNoteRequest (
            Note note,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.215 updateNoteRequestReady

```
void qevercloud::NoteStoreServer::updateNoteRequestReady (
            QByteArray data )  [signal]
```

7.80.3.216 updateResourceRequest

```
void qevercloud::NoteStoreServer::updateResourceRequest (
            Resource resource,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.217 updateResourceRequestReady

```
void qevercloud::NoteStoreServer::updateResourceRequestReady (
            QByteArray data )  [signal]
```

7.80.3.218 updateSearchRequest

```
void qevercloud::NoteStoreServer::updateSearchRequest (
            SavedSearch search,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.219 updateSearchRequestReady

```
void qevercloud::NoteStoreServer::updateSearchRequestReady (
            QByteArray data )  [signal]
```

7.80.3.220 updateSharedNotebookRequest

```
void qevercloud::NoteStoreServer::updateSharedNotebookRequest (
            SharedNotebook sharedNotebook,
            IRequestContextPtr ctx )  [signal]
```

7.80.3.221 updateSharedNotebookRequestReady

```
void qevercloud::NoteStoreServer::updateSharedNotebookRequestReady (
            QByteArray data )  [signal]
```

7.80.3.222 updateTagRequest

```
void qevercloud::NoteStoreServer::updateTagRequest (
            Tag tag,
            IRequestContextPtr ctx )  [signal]
```

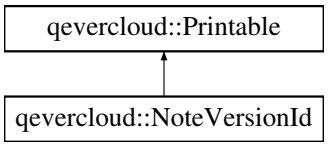
7.80.3.223 updateTagRequestReady

```
void qevercloud::NoteStoreServer::updateTagRequestReady (
            QByteArray data )  [signal]
```

7.81 qevercloud::NoteVersionId Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::NoteVersionId:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const NoteVersionId &other) const
- bool operator!= (const NoteVersionId &other) const

Public Attributes

- EverCloudLocalData localData
- qint32 updateSequenceNum = 0
- Timestamp updated = 0
- Timestamp saved = 0
- QString title
- Optional< UserID > lastEditorId

7.81.1 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.

7.81.2 Member Function Documentation

7.81.2.1 operator"!=()

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

7.81.2.2 operator==()

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

7.81.2.3 print()

```
virtual void qevercloud::NoteVersionId::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.81.3 Member Data Documentation

7.81.3.1 lastEditorId

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

The ID of the user who made the change to this version of the note. This will be unset if the note version was edited by the owner of the account.

7.81.3.2 localData

```
EverCloudLocalData qevercloud::NoteVersionId::localData
```

See the declaration of EverCloudLocalData for details

7.81.3.3 saved

```
Timestamp qevercloud::NoteVersionId::saved = 0
```

A timestamp that holds the date and time when this version of the note was backed up by Evernote's servers.

7.81.3.4 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.)

7.81.3.5 updated

```
Timestamp qevercloud::NoteVersionId::updated = 0
```

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.)

7.81.3.6 updateSequenceNum

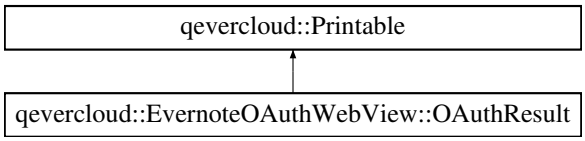
```
qint32 qevercloud::NoteVersionId::updateSequenceNum = 0
```

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.

7.82 qevercloud::EvernoteOAuthWebView::OAuthResult Struct Reference

`#include <OAuth.h>`

Inheritance diagram for qevercloud::EvernoteOAuthWebView::OAuthResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override

Public Attributes

- QString noteStoreUrl
- 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!
- QList< QNetworkCookie > cookies

7.82.1 Detailed Description

Holds data that is returned by Evernote on a successful authentication

7.82.2 Member Function Documentation

7.82.2.1 print()

```
virtual void qevercloud::EvernoteOAuthWebView::OAuthResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.82.3 Member Data Documentation

7.82.3.1 authenticationToken

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::authenticationToken
```

This is what this all was for!

Cookies set by Evernote during OAuth procedure. In April 2020 these cookies silently started to be required for UserStore API calls. Probably it was a bug on Evernote side which hopefully would be fixed at some point but nevertheless cookies set during OAuth procedure are now available as a part of OAuth result and can be used in subsequent calls to Evernote service. These cookies can be set when creating an instance of IRequestContext. Then this context can be used in QEverCloud calls. Cookies from context would propagate to HTTP requests performed by QEverCloud. See this thread on Evernote discussions for more details: https://discussion.evernote.com/topic/124257-calls-to-userstore-from-evernote-api-stopped-working

7.82.3.2 cookies

```
QList<QNetworkCookie> qevercloud::EvernoteOAuthWebView::OAuthResult::cookies
```

7.82.3.3 expires

```
Timestamp qevercloud::EvernoteOAuthWebView::OAuthResult::expires
```

authenticationToken time of expiration.

7.82.3.4 noteStoreUrl

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::noteStoreUrl
```

note store url for the user; no need to question UserStore::getNoteStoreUrl for it.

7.82.3.5 shardId

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::shardId
```

usually is not used

7.82.3.6 userId

```
UserID qevercloud::EvernoteOAuthWebView::OAuthResult::userId
```

same as PublicUserInfo::userId

7.82.3.7 webApiUrlPrefix

```
QString qevercloud::EvernoteOAuthWebView::OAuthResult::webApiUrlPrefix
```

see PublicUserInfo::webApiUrlPrefix

7.83 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
- bool operator== (const Optional< T > &other) const
- bool operator!= (const Optional< T > &other) const
- bool operator== (const T &other) const
- bool operator!= (const T &other) const
- Optional (Optional &&other)
- Optional & operator= (Optional &&other)
- Optional (T &&other)
- Optional & operator= (T &&other)

Friends

- template<typename X >
  class Optional
- void swap (Optional &first, Optional &second)

7.83.1 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 unassigned values throw exceptions. In this way errors are much harder to make and it's harder for them to slip through testing unnoticed too.

7.83.2 Constructor & Destructor Documentation

7.83.2.1 Optional() [1/7]

```
template<typename T>
qevercloud::Optional< T >::Optional ( )  [inline]
```

Default constructor. Default Optional is not set.

7.83.2.2 Optional() [2/7]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            const Optional< T > & o )  [inline]
```

Copy constructor.

7.83.2.3 Optional() [3/7]

```
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.

7.83.2.4 Optional() [4/7]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            const T & value )  [inline]
```

Initialization with a value of the type T. Note: it's implicit.

7.83.2.5 Optional() [5/7]

```
template<typename T>
template<typename X >
qevercloud::Optional< T >::Optional (
            const X & value )  [inline]
```

Template initialization with a value of any compatible type.

7.83.2.6 Optional() [6/7]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            Optional< T > && other )  [inline]
```

7.83.2.7 Optional() [7/7]

```
template<typename T>
qevercloud::Optional< T >::Optional (
            T && other )  [inline]
```

7.83.3 Member Function Documentation

7.83.3.1 clear()

```
template<typename T>
void qevercloud::Optional< T >::clear ( )  [inline]
```

Clears an Optional.

```
Optional<int> o(1);
o.clear();
cout << o; // exception
```

7.83.3.2 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

7.83.3.3 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.

7.83.3.4 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.

7.83.3.5 operator const T &()

```
template<typename T>
qevercloud::Optional< T >::operator const T & ( ) const  [inline]
```

Implicit conversion of Optional<T> to T.

const version.

7.83.3.6 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.

7.83.3.7 operator"!=() [1/2]

```
template<typename T>
bool qevercloud::Optional< T >::operator!= (
            const Optional< T > & other ) const  [inline]
```

7.83.3.8 operator"!=() [2/2]

```
template<typename T>
bool qevercloud::Optional< T >::operator!= (
            const T & other ) const  [inline]
```

7.83.3.9 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.

7.83.3.10 operator->() [2/2]

```
template<typename T>
const T* qevercloud::Optional< T >::operator-> ( ) const  [inline]
```

const version.

7.83.3.11 operator=() [1/6]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            const Optional< T > & o )  [inline]
```

Assignment.

7.83.3.12 operator=() [2/6]

```
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.

7.83.3.13 operator=() [3/6]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            const T & value )  [inline]
```

Assignment with a value of the type T.

7.83.3.14 operator=() [4/6]

```
template<typename T>
template<typename X >
Optional& qevercloud::Optional< T >::operator= (
            const X & value )  [inline]
```

Template assignment with a value of any compatible type.

7.83.3.15 operator=() [5/6]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            Optional< T > && other )  [inline]
```

7.83.3.16 operator=() [6/6]

```
template<typename T>
Optional& qevercloud::Optional< T >::operator= (
            T && other )  [inline]
```

7.83.3.17 operator==() [1/2]

```
template<typename T>
bool qevercloud::Optional< T >::operator== (
            const Optional< T > & other ) const  [inline]
```

7.83.3.18 operator==() [2/2]

```
template<typename T>
bool qevercloud::Optional< T >::operator== (
            const T & other ) const  [inline]
```

7.83.3.19 ref() [1/2]

```
template<typename T>
const T& qevercloud::Optional< T >::ref ( ) const  [inline]
```

Returs a reference to the holded value.

const version.

7.83.3.20 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
```

7.83.3.21 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.

7.83.4 Friends And Related Function Documentation

7.83.4.1 Optional

```
template<typename T>
template<typename X >
friend class Optional  [friend]
```

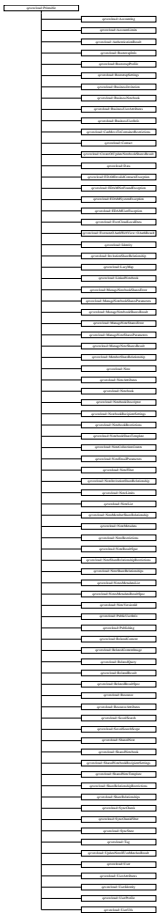
7.83.4.2 swap

```
template<typename T>
void swap (
            Optional< T > & first,
            Optional< T > & second )  [friend]
```

7.84 qevercloud::Printable Class Reference

```
#include <Printable.h>
```

Inheritance diagram for qevercloud::Printable:



Public Member Functions

- Printable ()=default
- virtual ~Printable ()=default
- virtual void print (QTextStream &strm) const =0
- virtual QString toString () const

Friends

- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &strm, const Printable &printable)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &dbg, const Printable &printable)

7.84.1 Constructor & Destructor Documentation

7.84.1.1 Printable()

```
qevercloud::Printable::Printable ( )  [default]
```

7.84.1.2 ~Printable()

```
virtual qevercloud::Printable::~Printable ( )  [virtual], [default]
```

7.84.2 Member Function Documentation

7.84.2.1 print()

```
virtual void qevercloud::Printable::print (
            QTextStream & strm ) const  [pure virtual]
```

Implemented in qevercloud::ManageNoteSharesResult, qevercloud::ManageNoteSharesError, qevercloud::CreateOrUpdateNotebookSharesResult, qevercloud::NotebookShareTemplate, qevercloud::SharedNoteTemplate, qevercloud::ManageNotebookSharesResult, qevercloud::ManageNotebookSharesError, qevercloud::ManageNotebookSharesParameters, qevercloud::ShareRelationships, qevercloud::InvitationShareRelationship, qevercloud::UpdateNoteIfUsnMatchesResult, qevercloud::RelatedResult, qevercloud::NoteEmailParameters, qevercloud::NotesMetadataList, qevercloud::NoteMetadata, qevercloud::NoteList, qevercloud::SyncChunk, qevercloud::EDAMInvalidContactsException, qevercloud::EDAMNotFoundException, qevercloud::EDAMSystemException, qevercloud::EDAMUserException, qevercloud::BootstrapInfo, qevercloud::BootstrapProfile, qevercloud::BootstrapSettings, qevercloud::AuthenticationResult, qevercloud::UserUrls, qevercloud::PublicUserInfo, qevercloud::UserIdentity, qevercloud::BusinessInvitation, qevercloud::RelatedContent, qevercloud::RelatedContentImage, qevercloud::UserProfile, qevercloud::NotebookDescriptor, qevercloud::LinkedNotebook, qevercloud::Notebook, qevercloud::NotebookRestrictions, qevercloud::CanMoveToContainerRestrictions, qevercloud::SharedNotebook, qevercloud::NotebookRecipientSettings, qevercloud::SharedNotebookRecipientSettings, qevercloud::SavedSearch, qevercloud::SavedSearchScope, qevercloud::BusinessNotebook, qevercloud::Publishing, qevercloud::Note, qevercloud::NoteLimits, qevercloud::NoteRestrictions, qevercloud::SharedNote, qevercloud::NoteAttributes, qevercloud::Resource, qevercloud::ResourceAttributes, qevercloud::LazyMap, qevercloud::Tag, qevercloud::Identity, qevercloud::Contact, qevercloud::User, qevercloud::AccountLimits, qevercloud::BusinessUserInfo, qevercloud::Accounting, qevercloud::BusinessUserAttributes, qevercloud::UserAttributes, qevercloud::Data, qevercloud::ManageNoteSharesParameters, qevercloud::NoteShareRelationships, qevercloud::NoteInvitationShareRelationship, qevercloud::NoteMemberShareRelationship, qevercloud::NoteShareRelationshipRestrictions, qevercloud::MemberShareRelationship, qevercloud::ShareRelationshipRestrictions, qevercloud::RelatedResultSpec, qevercloud::RelatedQuery, qevercloud::NoteVersionId, qevercloud::NoteResultSpec, qevercloud::NoteCollectionCounts, qevercloud::NotesMetadataResultSpec, qevercloud::NoteFilter, qevercloud::SyncChunkFilter, qevercloud::SyncState, qevercloud::EvernoteOAuthWebView::OAuthResult, and qevercloud::EverCloudLocalData.

7.84.2.2 toString()

```
virtual QString qevercloud::Printable::toString ( ) const  [virtual]
```

7.84.3 Friends And Related Function Documentation

7.84.3.1 operator<< [1/2]

```
QEVERCLOUD_EXPORT QTextStream& operator<< (
            QTextStream & strm,
            const Printable & printable )  [friend]
```

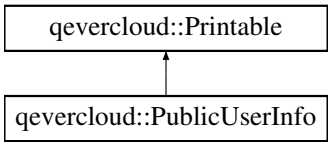
7.84.3.2 operator<< [2/2]

```
QEVERCLOUD_EXPORT QDebug& operator<< (
            QDebug & dbg,
            const Printable & printable )  [friend]
```

7.85 qevercloud::PublicUserInfo Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::PublicUserInfo:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const PublicUserInfo &other) const
- bool operator!= (const PublicUserInfo &other) const

Public Attributes

- EverCloudLocalData localData
- UserID userId = 0
- Optional< ServiceLevel > serviceLevel
- Optional< QString > username
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix

7.85.1 Detailed Description

This structure is used to provide publicly-available user information about a particular account.

7.85.2 Member Function Documentation

7.85.2.1 operator"!=()

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

7.85.2.2 operator==()

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

7.85.2.3 print()

```
virtual void qevercloud::PublicUserInfo::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.85.3 Member Data Documentation

7.85.3.1 localData

```
EverCloudLocalData qevercloud::PublicUserInfo::localData
```

See the declaration of EverCloudLocalData for details

7.85.3.2 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.

7.85.3.3 serviceLevel

```
Optional< ServiceLevel > qevercloud::PublicUserInfo::serviceLevel
```

The service level of the account.

7.85.3.4 userId

```
UserID qevercloud::PublicUserInfo::userId = 0
```

The unique numeric user identifier for the user account.

7.85.3.5 username

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

NOT DOCUMENTED

7.85.3.6 webApiUrlPrefix

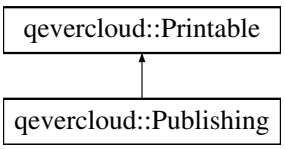
```
Optional< QString > qevercloud::PublicUserInfo::webApiUrlPrefix
```

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.

7.86 qevercloud::Publishing Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Publishing:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Publishing &other) const
- bool operator!= (const Publishing &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > uri
- Optional< NoteSortOrder > order
- Optional< bool > ascending
- Optional< QString > publicDescription

7.86.1 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.

7.86.2 Member Function Documentation

7.86.2.1 operator"!=()

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

7.86.2.2 operator==()

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

7.86.2.3 print()

```
virtual void qevercloud::Publishing::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.86.3 Member Data Documentation

7.86.3.1 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).

7.86.3.2 localData

```
EverCloudLocalData qevercloud::Publishing::localData
```

See the declaration of EverCloudLocalData for details

7.86.3.3 order

```
Optional< NoteSortOrder > qevercloud::Publishing::order
```

When the notes are publicly displayed, they will be sorted based on the requested criteria.

7.86.3.4 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

7.86.3.5 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

7.87 qevercloud::QAssociativeContainerConstReferenceWrapper< Container > Class Template Reference

```
#include <Helpers.h>
```

Classes

- struct iterator

Public Member Functions

- QAssociativeContainerConstReferenceWrapper (const Container &container)
- iterator begin () const
- iterator end () const

7.87.1 Constructor & Destructor Documentation

7.87.1.1 QAssociativeContainerConstReferenceWrapper()

```
template<typename Container >
qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::QAssociativeContainer↩
ConstReferenceWrapper (
            const Container & container )  [inline]
```

7.87.2 Member Function Documentation

7.87.2.1 begin()

```
template<typename Container >
iterator qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::begin ( ) const
[inline]
```

7.87.2.2 end()

```
template<typename Container >
iterator qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::end ( ) const
[inline]
```

7.88 qevercloud::QAssociativeContainerReferenceWrapper< Container > Class Template Reference

```
#include <Helpers.h>
```

Classes

- struct iterator

Public Member Functions

- QAssociativeContainerReferenceWrapper (Container &container)
- iterator begin ()
- iterator end ()

7.88.1 Constructor & Destructor Documentation

7.88.1.1 QAssociativeContainerReferenceWrapper()

```
template<typename Container >
qevercloud::QAssociativeContainerReferenceWrapper< Container >::QAssociativeContainerReference↩
Wrapper (
            Container & container )  [inline]
```

7.88.2 Member Function Documentation

7.88.2.1 begin()

```
template<typename Container >
iterator qevercloud::QAssociativeContainerReferenceWrapper< Container >::begin ( )  [inline]
```

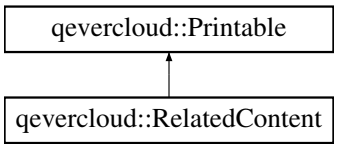
7.88.2.2 end()

```
template<typename Container >
iterator qevercloud::QAssociativeContainerReferenceWrapper< Container >::end ( )  [inline]
```

7.89 qevercloud::RelatedContent Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::RelatedContent:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const RelatedContent &other) const
- bool operator!= (const RelatedContent &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > contentId
- Optional< QString > title
- Optional< QString > url
- Optional< QString > sourceId
- Optional< QString > sourceUrl
- Optional< QString > sourceFaviconUrl
- Optional< QString > sourceName
- Optional< Timestamp > date
- Optional< QString > teaser
- Optional< QList< RelatedContentImage > > thumbnails
- Optional< RelatedContentType > contentType
- Optional< RelatedContentAccess > accessType
- Optional< QString > visibleUrl
- Optional< QString > clipUrl
- Optional< Contact > contact
- Optional< QStringList > authors

Properties

- Optional QList

7.89.1 Detailed Description

A structure identifying one snippet of related content (some information that is not part of an Evernote account but might still be relevant to the user).

7.89.2 Member Function Documentation

7.89.2.1 operator"!=()

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

7.89.2.2 operator==()

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

7.89.2.3 print()

```
virtual void qevercloud::RelatedContent::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.89.3 Member Data Documentation

7.89.3.1 accessType

```
Optional< RelatedContentAccess > qevercloud::RelatedContent::accessType
```

An indication of how this content can be accessed. This type influences the semantics of the `url` parameter.

7.89.3.2 authors

```
Optional< QStringList > qevercloud::RelatedContent::authors
```

For News articles only. A list of names of the article authors, if available.

7.89.3.3 clipUrl

```
Optional< QString > qevercloud::RelatedContent::clipUrl
```

If set, the client should use this URL for clipping purposes, instead of the URL that was used to retrieve the content. The clipUrl may directly point to an .enex file, for example.

7.89.3.4 contact

```
Optional< Contact > qevercloud::RelatedContent::contact
```

If set, the client may use this Contact for messaging purposes. This will typically only be set for user profiles.

7.89.3.5 contentId

```
Optional< QString > qevercloud::RelatedContent::contentId
```

An identifier that uniquely identifies the content.

7.89.3.6 contentType

```
Optional< RelatedContentType > qevercloud::RelatedContent::contentType
```

The type of this related content.

7.89.3.7 date

```
Optional< Timestamp > qevercloud::RelatedContent::date
```

A timestamp telling the user about the recency of the content.

7.89.3.8 localData

```
EverCloudLocalData qevercloud::RelatedContent::localData
```

See the declaration of EverCloudLocalData for details

7.89.3.9 sourceFaviconUrl

```
Optional< QString > qevercloud::RelatedContent::sourceFaviconUrl
```

The favicon URL of the source which the content belongs to.

7.89.3.10 sourceId

```
Optional< QString > qevercloud::RelatedContent::sourceId
```

An identifier that uniquely identifies the source.

7.89.3.11 sourceName

```
Optional< QString > qevercloud::RelatedContent::sourceName
```

A human-readable name of the source that provided this content.

7.89.3.12 sourceUrl

```
Optional< QString > qevercloud::RelatedContent::sourceUrl
```

A URL the client can access to know more about the source.

7.89.3.13 teaser

```
Optional< QString > qevercloud::RelatedContent::teaser
```

A teaser text to show to the user; usually the first few sentences of the content, excluding the title.

7.89.3.14 thumbnails

```
Optional<QList<RelatedContentImage> > qevercloud::RelatedContent::thumbnails
```

A list of thumbnails the client can show in the snippet.

7.89.3.15 title

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

The main title to show.

7.89.3.16 url

```
Optional< QString > qevercloud::RelatedContent::url
```

The URL the client can use to retrieve the content.

7.89.3.17 visibleUrl

```
Optional< QString > qevercloud::RelatedContent::visibleUrl
```

If set, the client should show this URL to the user, instead of the URL that was used to retrieve the content. This URL should be used when opening the content in an external browser window, or when sharing with another person.

7.89.4 Property Documentation

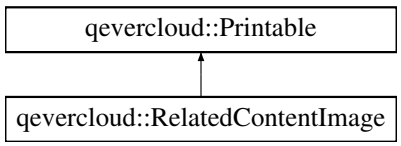
7.89.4.1 QList

```
Optional qevercloud::RelatedContent::QList
```

7.90 qevercloud::RelatedContentImage Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::RelatedContentImage:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const RelatedContentImage &other) const
- bool operator!= (const RelatedContentImage &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > url
- Optional< qint32 > width
- Optional< qint32 > height
- Optional< double > pixelRatio
- Optional< qint32 > fileSize

7.90.1 Detailed Description

An external image that can be shown with a related content snippet, usually either a JPEG or PNG image. It is up to the client which image(s) are shown, depending on available screen real estate, resolution and aspect ratio.

7.90.2 Member Function Documentation

7.90.2.1 operator"!=()

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

7.90.2.2 operator==()

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

7.90.2.3 print()

```
virtual void qevercloud::RelatedContentImage::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.90.3 Member Data Documentation

7.90.3.1 fileSize

```
Optional< qint32 > qevercloud::RelatedContentImage::fileSize
```

the size of the image file, in bytes

7.90.3.2 height

```
Optional< qint32 > qevercloud::RelatedContentImage::height
```

The height of the image, in pixels.

7.90.3.3 localData

```
EverCloudLocalData qevercloud::RelatedContentImage::localData
```

See the declaration of EverCloudLocalData for details

7.90.3.4 pixelRatio

```
Optional< double > qevercloud::RelatedContentImage::pixelRatio
```

the pixel ratio (usually either 1.0, 1.5 or 2.0)

7.90.3.5 url

```
Optional< QString > qevercloud::RelatedContentImage::url
```

The external URL of the image

7.90.3.6 width

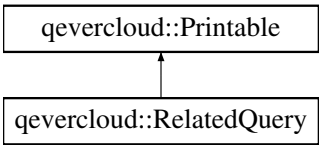
```
Optional< qint32 > qevercloud::RelatedContentImage::width
```

The width of the image, in pixels.

7.91 qevercloud::RelatedQuery Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::RelatedQuery:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const RelatedQuery &other) const
- bool operator!= (const RelatedQuery &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > noteGuid
- Optional< QString > plainText
- Optional< NoteFilter > filter
- Optional< QString > referenceUri
- Optional< QString > context
- Optional< QString > cacheKey

7.91.1 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.

7.91.2 Member Function Documentation

7.91.2.1 operator"!=()

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

7.91.2.2 operator==()

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

7.91.2.3 print()

```
virtual void qevercloud::RelatedQuery::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.91.3 Member Data Documentation

7.91.3.1 cacheKey

```
Optional< QString > qevercloud::RelatedQuery::cacheKey
```

If set and non-empty, this is an indicator for the server whether it is actually necessary to perform a new findRelated call at all. Cache Keys are opaque strings which are returned by the server as part of "RelatedResult" in response to a "NoteStore.findRelated" query. Cache Keys are inherently query specific.

If set to an empty string, this indicates that the server should generate a cache key in the response as part of "RelatedResult".

If not set, the server will not attempt to generate a cache key at all.

7.91.3.2 context

```
Optional< QString > qevercloud::RelatedQuery::context
```

Specifies the context to consider when determining related results. Clients must leave this value unset unless they wish to explicitly specify a known non-default context.

7.91.3.3 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*.

7.91.3.4 localData

```
EverCloudLocalData qevercloud::RelatedQuery::localData
```

See the declaration of EverCloudLocalData for details

7.91.3.5 noteGuid

```
Optional< QString > qevercloud::RelatedQuery::noteGuid
```

The GUID of an existing note in your account for which related entities will be found.

7.91.3.6 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.

7.91.3.7 referenceUri

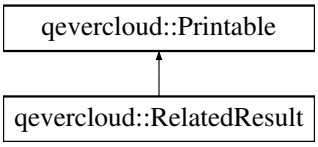
```
Optional< QString > qevercloud::RelatedQuery::referenceUri
```

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.

7.92 qevercloud::RelatedResult Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::RelatedResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const RelatedResult &other) const
- bool operator!= (const RelatedResult &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QList< Note > > notes
- Optional< QList< Notebook > > notebooks
- Optional< QList< Tag > > tags
- Optional< QList< NotebookDescriptor > > containingNotebooks
- Optional< QString > debugInfo
- Optional< QList< UserProfile > > experts
- Optional< QList< RelatedContent > > relatedContent
- Optional< QString > cacheKey
- Optional< qint32 > cacheExpires

Properties

- Optional QList

7.92.1 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.

7.92.2 Member Function Documentation

7.92.2.1 operator"!=()

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

7.92.2.2 operator==()

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

7.92.2.3 print()

```
virtual void qevercloud::RelatedResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.92.3 Member Data Documentation

7.92.3.1 cacheExpires

```
Optional< qint32 > qevercloud::RelatedResult::cacheExpires
```

If set, clients should reuse this response for any situations where the same input parameters are applicable for up to this many seconds after receiving this result.

After this time has passed, the client may request a new result from the service, but it should supply the stored cacheKey to the service when checking for an update.

7.92.3.2 cacheKey

```
Optional< QString > qevercloud::RelatedResult::cacheKey
```

If set and non-empty, this cache key may be used in subsequent "NoteStore.findRelated" calls (via "RelatedQuery") to re-use previous responses that were cached on the client-side, instead of actually performing another search.

If set to an empty string, this indicates that the server could not determine a specific key for this response, but the client should nevertheless remove any previously cached result for this request.

If unset/null, it is up to the client whether to re-use cached results or to use the server's response.

If set to the exact non-empty cache key that was specified in "RelatedQuery.cacheKey", this indicates that the server decided that cached results could be reused.

Depending on the cache key specified in the query, the "RelatedResult" may only be partially filled. For each set field, the client should replace the corresponding part in the previously cached result with the new partial result.

For example, for a specific query that has both "RelatedResultSpec.maxNotes" and "RelatedResultSpec.max↩ RelatedContent" set to positive values, the server may decide that the previously requested and cached *Related Content* are unchanged, but new results for *Related Notes* are available. The response will have a new cache key and have "RelatedResult.notes" set, but have "RelatedResult.relatedContent" unset (not just empty, but really unset).

In this situation, the client should replace any cached notes with the newly returned "RelatedResult.notes", but it can re-use the previously cached entries for "RelatedResult.relatedContent". List fields that are set, but empty indicate that no results could be found; the cache should be updated correspondingly.

7.92.3.3 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.

7.92.3.4 debugInfo

```
Optional< QString > qevercloud::RelatedResult::debugInfo
```

NOT DOCUMENTED

7.92.3.5 experts

```
Optional<QList<UserProfile> > qevercloud::RelatedResult::experts
```

If experts have been requested to be included, this will return a list of users within your business who have knowledge about the specified query.

7.92.3.6 localData

```
EverCloudLocalData qevercloud::RelatedResult::localData
```

See the declaration of EverCloudLocalData for details

7.92.3.7 notebooks

```
Optional<QList<Notebook> > qevercloud::RelatedResult::notebooks
```

If notebooks have been requested to be included, this will be the list of notebooks.

7.92.3.8 notes

```
Optional<QList<Note> > qevercloud::RelatedResult::notes
```

If notes have been requested to be included, this will be the list of notes.

7.92.3.9 relatedContent

```
Optional<QList<RelatedContent> > qevercloud::RelatedResult::relatedContent
```

If related content has been requested to be included, this will be the list of related content snippets.

7.92.3.10 tags

```
Optional<QList<Tag> > qevercloud::RelatedResult::tags
```

If tags have been requested to be included, this will be the list of tags.

7.92.4 Property Documentation

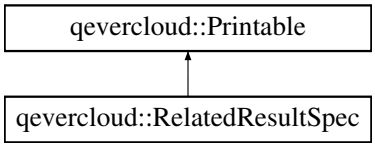
7.92.4.1 QList

```
Optional qevercloud::RelatedResult::QList
```

7.93 qevercloud::RelatedResultSpec Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::RelatedResultSpec:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const RelatedResultSpec &other) const
- bool operator!= (const RelatedResultSpec &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint32 > maxNotes
- Optional< qint32 > maxNotebooks
- Optional< qint32 > maxTags
- Optional< bool > writableNotebooksOnly
- Optional< bool > includeContainingNotebooks
- Optional< bool > includeDebugInfo
- Optional< qint32 > maxExperts
- Optional< qint32 > maxRelatedContent
- Optional< QSet< RelatedContentType > > relatedContentTypes

Properties

- Optional QSet

7.93.1 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.

7.93.2 Member Function Documentation

7.93.2.1 operator"!=()

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

7.93.2.2 operator==()

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

7.93.2.3 print()

```
virtual void qevercloud::RelatedResultSpec::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.93.3 Member Data Documentation

7.93.3.1 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.

7.93.3.2 includeDebugInfo

```
Optional< bool > qevercloud::RelatedResultSpec::includeDebugInfo
```

If set to `true`, indicate that debug information should be returned in the 'debugInfo' field of RelatedResult. Note that the call may be slower if this flag is set.

7.93.3.3 localData

```
EverCloudLocalData qevercloud::RelatedResultSpec::localData
```

See the declaration of EverCloudLocalData for details

7.93.3.4 maxExperts

```
Optional< qint32 > qevercloud::RelatedResultSpec::maxExperts
```

This can only be used when making a findRelated call against a business. Find users within your business who have knowledge about the specified query. No more than this many users will be returned. Any value greater than EDAM_RELATED_MAX_EXPERTS will be silently capped.

7.93.3.5 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.

7.93.3.6 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.

7.93.3.7 maxRelatedContent

```
Optional< qint32 > qevercloud::RelatedResultSpec::maxRelatedContent
```

Return snippets of related content that is related to the query, but no more than this many. Any value greater than EDAM_RELATED_MAX_RELATED_CONTENT will be silently capped. If you do not set this field, then no related content will be returned.

7.93.3.8 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.

7.93.3.9 relatedContentTypes

```
Optional<QSet<RelatedContentType> > qevercloud::RelatedResultSpec::relatedContentTypes
```

Specifies the types of Related Content that should be returned.

7.93.3.10 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.

7.93.4 Property Documentation

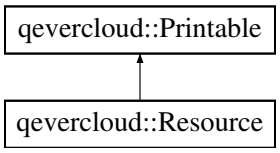
7.93.4.1 QSet

```
Optional qevercloud::RelatedResultSpec::QSet
```

7.94 qevercloud::Resource Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::Resource:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Resource &other) const
- bool operator!= (const Resource &other) const

Public Attributes

- EverCloudLocalData localData
- 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

7.94.1 Detailed Description

Every media file that is embedded or attached to a note is represented through a Resource entry.

7.94.2 Member Function Documentation

7.94.2.1 operator"!=()

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

7.94.2.2 operator==()

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

7.94.2.3 print()

```
virtual void qevercloud::Resource::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.94.3 Member Data Documentation

7.94.3.1 active

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

If the resource is active or not.

7.94.3.2 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.

7.94.3.3 attributes

```
Optional< ResourceAttributes > qevercloud::Resource::attributes
```

A list of the attributes for this resource.

7.94.3.4 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.

7.94.3.5 duration

```
Optional< qint16 > qevercloud::Resource::duration
```

DEPRECATED: ignored.

7.94.3.6 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

7.94.3.7 height

```
Optional< qint16 > qevercloud::Resource::height
```

If set, this contains the display height of this resource, in pixels.

7.94.3.8 localData

```
EverCloudLocalData qevercloud::Resource::localData
```

See the declaration of EverCloudLocalData for details

7.94.3.9 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

7.94.3.10 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

7.94.3.11 recognition

```
Optional< Data > qevercloud::Resource::recognition
```

If set, this will hold the encoded data that provides information on search and recognition within this resource.

7.94.3.12 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.

7.94.3.13 width

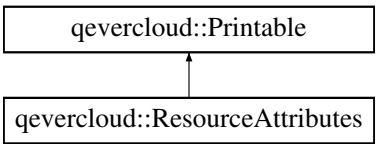
```
Optional< qint16 > qevercloud::Resource::width
```

If set, this contains the display width of this resource, in pixels.

7.95 qevercloud::ResourceAttributes Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ResourceAttributes:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ResourceAttributes &other) const
- bool operator!= (const ResourceAttributes &other) const

Public Attributes

- EverCloudLocalData localData
- 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

7.95.1 Detailed Description

Structure holding the optional attributes of a Resource

7.95.2 Member Function Documentation

7.95.2.1 operator"!=()

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

7.95.2.2 operator==()

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

7.95.2.3 print()

```
virtual void qevercloud::ResourceAttributes::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.95.3 Member Data Documentation

7.95.3.1 altitude

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

the altitude where the resource was captured

7.95.3.2 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

7.95.3.3 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).

7.95.3.4 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

7.95.3.5 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

7.95.3.6 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.

7.95.3.7 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.

7.95.3.8 latitude

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

the latitude where the resource was captured

7.95.3.9 localData

```
EverCloudLocalData qevercloud::ResourceAttributes::localData
```

See the declaration of EverCloudLocalData for details

7.95.3.10 longitude

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

the longitude where the resource was captured

7.95.3.11 recoType

```
Optional< QString > qevercloud::ResourceAttributes::recoType
```

DEPRECATED - this field is no longer set by the service, so should be ignored.

7.95.3.12 sourceURL

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

the original location where the resource was hosted
Length: EDAM_ATTRIBUTE_LEN_MIN - EDAM_ATTRIBUTE_LEN_MAX

7.95.3.13 timestamp

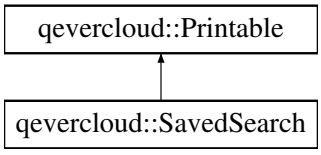
```
Optional< Timestamp > qevercloud::ResourceAttributes::timestamp
```

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)

7.96 qevercloud::SavedSearch Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SavedSearch:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SavedSearch &other) const
- bool operator!= (const SavedSearch &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Guid > guid
- Optional< QString > name
- Optional< QString > query
- Optional< QueryFormat > format
- Optional< qint32 > updateSequenceNum
- Optional< SavedSearchScope > scope

7.96.1 Detailed Description

A named search associated with the account that can be quickly re-used.

7.96.2 Member Function Documentation

7.96.2.1 operator"!=()

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

7.96.2.2 operator==()

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

7.96.2.3 print()

```
virtual void qevercloud::SavedSearch::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.96.3 Member Data Documentation

7.96.3.1 format

`Optional< QueryFormat > qevercloud::SavedSearch::format`

The format of the query string, to determine how to parse and process it.

7.96.3.2 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

7.96.3.3 localData

`EverCloudLocalData qevercloud::SavedSearch::localData`

See the declaration of EverCloudLocalData for details

7.96.3.4 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

7.96.3.5 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

7.96.3.6 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.

7.96.3.7 updateSequenceNum

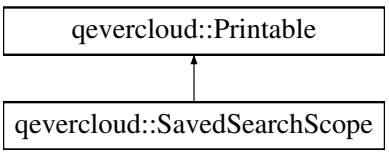
```
Optional< qint32 > qevercloud::SavedSearch::updateSequenceNum
```

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.

7.97 qevercloud::SavedSearchScope Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SavedSearchScope:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SavedSearchScope &other) const
- bool operator!= (const SavedSearchScope &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > includeAccount
- Optional< bool > includePersonalLinkedNotebooks
- Optional< bool > includeBusinessLinkedNotebooks

7.97.1 Detailed Description

A structure defining the scope of a SavedSearch.

7.97.2 Member Function Documentation

7.97.2.1 operator"!=()

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

7.97.2.2 operator==()

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

7.97.2.3 print()

```
virtual void qevercloud::SavedSearchScope::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.97.3 Member Data Documentation

7.97.3.1 includeAccount

```
Optional< bool > qevercloud::SavedSearchScope::includeAccount
```

The search should include notes from the account that contains the SavedSearch.

7.97.3.2 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.

7.97.3.3 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.

7.97.3.4 localData

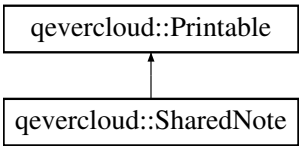
```
EverCloudLocalData qevercloud::SavedSearchScope::localData
```

See the declaration of EverCloudLocalData for details

7.98 qevercloud::SharedNote Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::SharedNote:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SharedNote &other) const
- bool operator!= (const SharedNote &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< UserID > sharerUserID
- Optional< Identity > recipientIdentity
- Optional< SharedNotePrivilegeLevel > privilege
- Optional< Timestamp > serviceCreated
- Optional< Timestamp > serviceUpdated
- Optional< Timestamp > serviceAssigned

7.98.1 Detailed Description

Represents a relationship between a note and a single share invitation recipient. The recipient is identified via an Identity, and has a given privilege that specifies what actions they may take on the note.

7.98.2 Member Function Documentation

7.98.2.1 operator"!=()

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

7.98.2.2 operator==()

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

7.98.2.3 print()

```
virtual void qevercloud::SharedNote::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.98.3 Member Data Documentation

7.98.3.1 localData

```
EverCloudLocalData qevercloud::SharedNote::localData
```

See the declaration of EverCloudLocalData for details

7.98.3.2 privilege

```
Optional< SharedNotePrivilegeLevel > qevercloud::SharedNote::privilege
```

The privilege level that the share grants to the recipient.

7.98.3.3 recipientIdentity

```
Optional< Identity > qevercloud::SharedNote::recipientIdentity
```

The identity of the recipient of the share. For a given note, there may be only one SharedNote per recipient identity. Only recipientIdentity.id is guaranteed to be set. Other fields on the Identity may or my not be set based on the requesting user's relationship with the recipient.

7.98.3.4 serviceAssigned

```
Optional< Timestamp > qevercloud::SharedNote::serviceAssigned
```

The time at which the share was assigned to a specific recipient user ID.

7.98.3.5 serviceCreated

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

The time at which the share was created.

7.98.3.6 serviceUpdated

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

The time at which the share was last updated.

7.98.3.7 sharerUserID

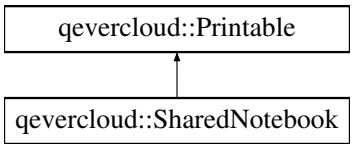
```
Optional< UserID > qevercloud::SharedNote::sharerUserID
```

The user ID of the user who shared the note with the recipient.

7.99 qevercloud::SharedNotebook Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SharedNotebook:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SharedNotebook &other) const
- bool operator!= (const SharedNotebook &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< qint64 > id
- Optional< UserID > userId
- Optional< Guid > notebookGuid
- Optional< QString > email
- Optional< IdentityID > recipientIdentityId
- Optional< bool > notebookModifiable
- Optional< Timestamp > serviceCreated
- Optional< Timestamp > serviceUpdated
- Optional< QString > globalId
- Optional< QString > username
- Optional< SharedNotebookPrivilegeLevel > privilege
- Optional< SharedNotebookRecipientSettings > recipientSettings
- Optional< UserID > sharerUserId
- Optional< QString > recipientUsername
- Optional< UserID > recipientUserId
- Optional< Timestamp > serviceAssigned

7.99.1 Detailed Description

Shared notebooks represent a relationship between a notebook and a single share invitation recipient.

7.99.2 Member Function Documentation

7.99.2.1 operator"!=()

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

7.99.2.2 operator==()

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

7.99.2.3 print()

```
virtual void qevercloud::SharedNotebook::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.99.3 Member Data Documentation

7.99.3.1 email

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

A string containing a display name for the recipient of the share. This may be an email address, a phone number, a full name, or some other descriptive string This field is read-only to clients. It will be filled in by the service when returning shared notebooks.

7.99.3.2 globalId

```
Optional< QString > qevercloud::SharedNotebook::globalId
```

An immutable, opaque string that acts as a globally unique identifier for this shared notebook record. You can use this field to match linked notebook and shared notebook records as well as to create new LinkedNotebook records. This field replaces the deprecated shareKey field.

7.99.3.3 id

```
Optional< qint64 > qevercloud::SharedNotebook::id
```

The primary identifier of the share, which is not globally unique.

7.99.3.4 localData

```
EverCloudLocalData qevercloud::SharedNotebook::localData
```

See the declaration of EverCloudLocalData for details

7.99.3.5 notebookGuid

```
Optional< Guid > qevercloud::SharedNotebook::notebookGuid
```

The GUID of the notebook that has been shared.

7.99.3.6 notebookModifiable

```
Optional< bool > qevercloud::SharedNotebook::notebookModifiable
```

DEPRECATED

7.99.3.7 privilege

```
Optional< SharedNotebookPrivilegeLevel > qevercloud::SharedNotebook::privilege
```

The privilege level granted to the notebook, activity stream, and invitations. See the corresponding enumeration for details.

7.99.3.8 recipientIdentityId

```
Optional< IdentityID > qevercloud::SharedNotebook::recipientIdentityId
```

The IdentityID of the share recipient. If present, only the user who has claimed that identity may access this share.

7.99.3.9 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.

7.99.3.10 recipientUserId

`Optional< UserID > qevercloud::SharedNotebook::recipientUserId`

The id of the user who can access this share. This is the id for the user with the username in recipientUsername. This value is read-only and set by the service. Value set by clients will be ignored. This field may be unset for unjoined notebooks and is always set if serviceAssigned is set. Clients should prefer this field over recipient↩ Username unless they need to use usernames directly.

7.99.3.11 recipientUsername

`Optional< QString > qevercloud::SharedNotebook::recipientUsername`

The username of the user who can access this share. This is the username for the user with the id in recipientUserId. This value can be set by clients when calling shareNotebook(...), and that will result in the created SharedNotebook being assigned to a user. This value is always set if serviceAssigned is set.

7.99.3.12 serviceAssigned

`Optional< Timestamp > qevercloud::SharedNotebook::serviceAssigned`

The date this SharedNotebook was assigned (i.e. has been associated with an Evernote user whose user ID is set in recipientUserId). Unset if the SharedNotebook is not assigned. This field is a read-only value that is set by the service.

7.99.3.13 serviceCreated

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

The date that the owner first created the share with the specific email address.

7.99.3.14 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 (i.e. when the username is bound to that shared notebook), and also when the SharedNotebook privilege is updated as part of a shareNotebook(...) call, as well as on any calls to updateSharedNotebook(...).

7.99.3.15 sharerUserId

`Optional< UserID > qevercloud::SharedNotebook::sharerUserId`

The user id of the user who shared a notebook via this shared notebook instance. This may not be the same as userId, since a user with full access to a notebook may have created a new share for that notebook. For Business, this represents the user who shared the business notebook. This field is currently unset for a SharedNotebook created by joining a notebook that has been published to the business.

7.99.3.16 userId

```
Optional< UserID > qevercloud::SharedNotebook::userId
```

The user id of the owner of the notebook.

7.99.3.17 username

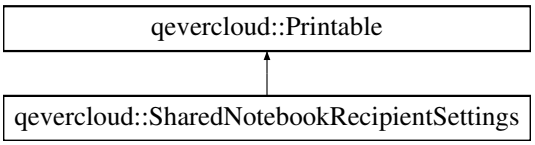
```
Optional< QString > qevercloud::SharedNotebook::username
```

DEPRECATED. The username of the user who can access this share. This value is read-only to clients. It will be filled in by the service when returning shared notebooks.

7.100 qevercloud::SharedNotebookRecipientSettings Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SharedNotebookRecipientSettings:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SharedNotebookRecipientSettings &other) const
- bool operator!= (const SharedNotebookRecipientSettings &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > reminderNotifyEmail
- Optional< bool > reminderNotifyInApp

7.100.1 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.

7.100.2 Member Function Documentation

7.100.2.1 operator"!=()

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

7.100.2.2 operator==()

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

7.100.2.3 print()

```
virtual void qevercloud::SharedNotebookRecipientSettings::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.100.3 Member Data Documentation

7.100.3.1 localData

```
EverCloudLocalData qevercloud::SharedNotebookRecipientSettings::localData
```

See the declaration of EverCloudLocalData for details

7.100.3.2 reminderNotifyEmail

```
Optional< bool > qevercloud::SharedNotebookRecipientSettings::reminderNotifyEmail
```

Indicates that the user wishes to receive daily e-mail notifications for reminders associated with the 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.

7.100.3.3 reminderNotifyInApp

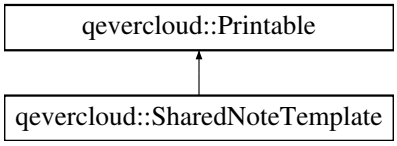
```
Optional< bool > qevercloud::SharedNotebookRecipientSettings::reminderNotifyInApp
```

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.

7.101 qevercloud::SharedNoteTemplate Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SharedNoteTemplate:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SharedNoteTemplate &other) const
- bool operator!= (const SharedNoteTemplate &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Guid > noteGuid
- Optional< MessageThreadID > recipientThreadId
- Optional< QList< Contact > > recipientContacts
- Optional< SharedNotePrivilegeLevel > privilege

Properties

- Optional QList

7.101.1 Detailed Description

A structure used to share a note with one or more recipients at a given privilege.

7.101.2 Member Function Documentation

7.101.2.1 operator"!=()

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

7.101.2.2 operator==()

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

7.101.2.3 print()

```
virtual void qevercloud::SharedNoteTemplate::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.101.3 Member Data Documentation

7.101.3.1 localData

```
EverCloudLocalData qevercloud::SharedNoteTemplate::localData
```

See the declaration of EverCloudLocalData for details

7.101.3.2 noteGuid

```
Optional< Guid > qevercloud::SharedNoteTemplate::noteGuid
```

The GUID of the note.

7.101.3.3 privilege

```
Optional< SharedNotePrivilegeLevel > qevercloud::SharedNoteTemplate::privilege
```

The privilege level to be granted.

7.101.3.4 recipientContacts

```
Optional<QList<Contact> > qevercloud::SharedNoteTemplate::recipientContacts
```

The recipients of the note share specified as a list of contacts. This should only be set if the sharing takes place before the thread is created. Use recipientThreadId instead when sharing with an existing thread. Either this field or recipientThreadId must be set.

7.101.3.5 recipientThreadId

```
Optional< MessageThreadID > qevercloud::SharedNoteTemplate::recipientThreadId
```

The recipients of the note share specified as a messaging thread ID. If you have an existing messaging thread to share the note with, specify its ID here instead of recipientContacts in order to properly support defunct identities. The sharer must be a participant of the thread. Either this field or recipientContacts must be set.

7.101.4 Property Documentation

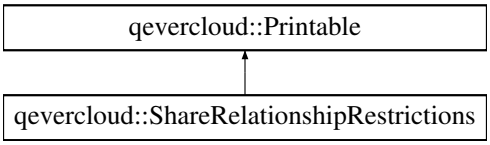
7.101.4.1 QList

```
Optional qevercloud::SharedNoteTemplate::QList
```

7.102 qevercloud::ShareRelationshipRestrictions Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ShareRelationshipRestrictions:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ShareRelationshipRestrictions &other) const
- bool operator!= (const ShareRelationshipRestrictions &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< bool > noSetReadOnly
- Optional< bool > noSetReadPlusActivity
- Optional< bool > noSetModify
- Optional< bool > noSetFullAccess

7.102.1 Detailed Description

NO DOC COMMENT ID FOUND

7.102.2 Member Function Documentation

7.102.2.1 operator"!=()

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

7.102.2.2 operator==()

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

7.102.2.3 print()

```
virtual void qevercloud::ShareRelationshipRestrictions::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.102.3 Member Data Documentation

7.102.3.1 localData

```
EverCloudLocalData qevercloud::ShareRelationshipRestrictions::localData
```

See the declaration of EverCloudLocalData for details

7.102.3.2 noSetFullAccess

```
Optional< bool > qevercloud::ShareRelationshipRestrictions::noSetFullAccess
```

NOT DOCUMENTED

7.102.3.3 noSetModify

```
Optional< bool > qevercloud::ShareRelationshipRestrictions::noSetModify
```

NOT DOCUMENTED

7.102.3.4 noSetReadOnly

```
Optional< bool > qevercloud::ShareRelationshipRestrictions::noSetReadOnly
```

NOT DOCUMENTED

7.102.3.5 noSetReadPlusActivity

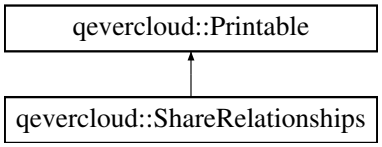
```
Optional< bool > qevercloud::ShareRelationshipRestrictions::noSetReadPlusActivity
```

NOT DOCUMENTED

7.103 qevercloud::ShareRelationships Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::ShareRelationships:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const ShareRelationships &other) const
- bool operator!= (const ShareRelationships &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QList< InvitationShareRelationship > > invitations
- Optional< QList< MemberShareRelationship > > memberships
- Optional< ShareRelationshipRestrictions > invitationRestrictions

Properties

- Optional QList

7.103.1 Detailed Description

Captures a collection of share relationships for a notebook, for example, as returned by the getNotebookShares method. The share relationships fall into two broad categories: members, and invitations that can be used to become members.

7.103.2 Member Function Documentation

7.103.2.1 operator"!=()

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

7.103.2.2 operator==()

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

7.103.2.3 print()

```
virtual void qevercloud::ShareRelationships::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.103.3 Member Data Documentation

7.103.3.1 invitationRestrictions

```
Optional< ShareRelationshipRestrictions > qevercloud::ShareRelationships::invitationRestrictions
```

The restrictions on what privileges may be granted to invitees to this notebook. These restrictions may be specific to the calling user or to the notebook itself. They represent the union of all possible invite cases, so it is possible that once the recipient of the invitation has been identified by the service, such as by a business auto-join, the actual assigned privilege may change.

7.103.3.2 invitations

```
Optional<QList<InvitationShareRelationship> > qevercloud::ShareRelationships::invitations
```

A list of open invitations that can be redeemed into memberships to the notebook.

7.103.3.3 localData

```
EverCloudLocalData qevercloud::ShareRelationships::localData
```

See the declaration of EverCloudLocalData for details

7.103.3.4 memberships

```
Optional<QList<MemberShareRelationship> > qevercloud::ShareRelationships::memberships
```

A list of memberships of the notebook. A member is identified by their Evernote UserID and has rights to access the notebook.

7.103.4 Property Documentation

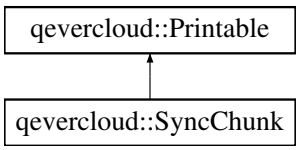
7.103.4.1 QList

```
Optional qevercloud::ShareRelationships::QList
```

7.104 qevercloud::SyncChunk Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SyncChunk:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SyncChunk &other) const
- bool operator!= (const SyncChunk &other) const

Public Attributes

- EverCloudLocalData localData
- Timestamp currentTime = 0
- Optional< qint32 > chunkHighUSN
- qint32 updateCount = 0
- 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

Properties

- Optional QList

7.104.1 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).

7.104.2 Member Function Documentation

7.104.2.1 operator"!=()

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

7.104.2.2 operator==()

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

7.104.2.3 print()

```
virtual void qevercloud::SyncChunk::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.104.3 Member Data Documentation

7.104.3.1 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.

7.104.3.2 currentTime

```
Timestamp qevercloud::SyncChunk::currentTime = 0
```

The server's current date and time.

7.104.3.3 expungedLinkedNotebooks

```
Optional<QList<Guid> > qevercloud::SyncChunk::expungedLinkedNotebooks
```

If present, the GUIDs of all of the LinkedNotebooks that were permanently expunged in this chunk.

7.104.3.4 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.

7.104.3.5 expungedNotes

```
Optional<QList<Guid> > qevercloud::SyncChunk::expungedNotes
```

If present, the GUIDs of all of the notes that were permanently expunged in this chunk.

7.104.3.6 expungedSearches

```
Optional<QList<Guid> > qevercloud::SyncChunk::expungedSearches
```

If present, the GUIDs of all of the saved searches that were permanently expunged in this chunk.

7.104.3.7 expungedTags

```
Optional<QList<Guid> > qevercloud::SyncChunk::expungedTags
```

If present, the GUIDs of all of the tags that were permanently expunged in this chunk.

7.104.3.8 linkedNotebooks

```
Optional<QList<LinkedNotebook> > qevercloud::SyncChunk::linkedNotebooks
```

If present, this is a list of non-expunged LinkedNotebooks that have a USN in this chunk.

7.104.3.9 localData

```
EverCloudLocalData qevercloud::SyncChunk::localData
```

See the declaration of EverCloudLocalData for details

7.104.3.10 notebooks

```
Optional<QList<Notebook> > qevercloud::SyncChunk::notebooks
```

If present, this is a list of non-expunged notebooks that have a USN in this chunk.

7.104.3.11 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.

7.104.3.12 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.

7.104.3.13 searches

```
Optional<QList<SavedSearch> > qevercloud::SyncChunk::searches
```

If present, this is a list of non-expunged searches that have a USN in this chunk.

7.104.3.14 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.

7.104.3.15 updateCount

```
qint32 qevercloud::SyncChunk::updateCount = 0
```

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.

7.104.4 Property Documentation

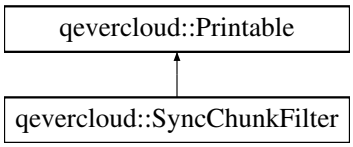
7.104.4.1 QList

```
Optional qevercloud::SyncChunk::QList
```

7.105 qevercloud::SyncChunkFilter Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::SyncChunkFilter:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SyncChunkFilter &other) const
- bool operator!= (const SyncChunkFilter &other) const

Public Attributes

- EverCloudLocalData localData
- 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< bool > includeSharedNotes
- Optional< bool > omitSharedNotebooks
- Optional< QString > requireNoteContentClass
- Optional< QSet< QString > > notebookGuids

Properties

- Optional QSet

7.105.1 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.

7.105.2 Member Function Documentation

7.105.2.1 operator"!=()

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

7.105.2.2 operator==()

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

7.105.2.3 print()

```
virtual void qevercloud::SyncChunkFilter::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.105.3 Member Data Documentation

7.105.3.1 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.

7.105.3.2 includeLinkedNotebooks

```
Optional< bool > qevercloud::SyncChunkFilter::includeLinkedNotebooks
```

If true, then the server will include the SyncChunks.linkedNotebooks field.

7.105.3.3 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.

7.105.3.4 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.

7.105.3.5 includeNotebooks

```
Optional< bool > qevercloud::SyncChunkFilter::includeNotebooks
```

If true, then the server will include the SyncChunks.notebooks field

7.105.3.6 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.

7.105.3.7 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.

7.105.3.8 includeNotes

```
Optional< bool > qevercloud::SyncChunkFilter::includeNotes
```

If true, then the server will include the SyncChunks.notes field

7.105.3.9 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.

7.105.3.10 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.

7.105.3.11 includeSearches

```
Optional< bool > qevercloud::SyncChunkFilter::includeSearches
```

If true, then the server will include the SyncChunks.searches field

7.105.3.12 includeSharedNotes

```
Optional< bool > qevercloud::SyncChunkFilter::includeSharedNotes
```

If true, then the service will include the sharedNotes field on all notes that are in SyncChunk.notes. If 'includeNotes' is false, then this will have no effect.

7.105.3.13 includeTags

```
Optional< bool > qevercloud::SyncChunkFilter::includeTags
```

If true, then the server will include the SyncChunks.tags field

7.105.3.14 localData

```
EverCloudLocalData qevercloud::SyncChunkFilter::localData
```

See the declaration of EverCloudLocalData for details

7.105.3.15 notebookGuids

```
Optional<QSet<QString> > qevercloud::SyncChunkFilter::notebookGuids
```

If set, then restrict the returned notebooks, notes, and resources to those associated with one of the notebooks whose GUID is provided in this list. If not set, then no filtering on notebook GUID will be performed. If you set this field, you may not also set includeExpunged else an EDAMUserException with an error code of DATA_CONFL↩ ICT will be thrown. You only need to set this field if you want to restrict the returned entities more than what your authentication token allows you to access. For example, there is no need to set this field for single notebook tokens such as for shared notebooks. You can use this field to synchronize a newly discovered business notebook while incrementally synchronizing a business account, in which case you will only need to consider setting includeNotes, includeNotebooks, includeNoteAttributes, includeNoteResources, and maybe some of the "FullMap" fields.

7.105.3.16 omitSharedNotebooks

```
Optional< bool > qevercloud::SyncChunkFilter::omitSharedNotebooks
```

NOT DOCUMENTED

7.105.3.17 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.

7.105.4 Property Documentation

7.105.4.1 QSet

```
Optional qevercloud::SyncChunkFilter::QSet
```

7.106 qevercloud::IDurableService::SyncRequest Struct Reference

`#include <DurableService.h>`

Public Member Functions

- SyncRequest (const char *name, QString description, SyncServiceCall &&call)

Public Attributes

- const char * m_name
- QString m_description
- SyncServiceCall m_call

7.106.1 Constructor & Destructor Documentation

7.106.1.1 SyncRequest()

```
qevercloud::IDurableService::SyncRequest::SyncRequest (
            const char * name,
            QString description,
            SyncServiceCall && call )  [inline]
```

7.106.2 Member Data Documentation

7.106.2.1 m_call

```
SyncServiceCall qevercloud::IDurableService::SyncRequest::m_call
```

7.106.2.2 m_description

```
QString qevercloud::IDurableService::SyncRequest::m_description
```

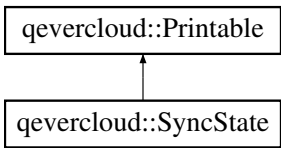
7.106.2.3 m_name

```
const char* qevercloud::IDurableService::SyncRequest::m_name
```

7.107 qevercloud::SyncState Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::SyncState:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const SyncState &other) const
- bool operator!= (const SyncState &other) const

Public Attributes

- EverCloudLocalData localData
- Timestamp currentTime = 0
- Timestamp fullSyncBefore = 0
- qint32 updateCount = 0
- Optional< qint64 > uploaded
- Optional< Timestamp > userLastUpdated
- Optional< MessageEventID > userMaxMessageEventId

7.107.1 Detailed Description

This structure encapsulates the information about the state of the user's account for the purpose of "state based" synchronization.

7.107.2 Member Function Documentation

7.107.2.1 operator"!=()

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

7.107.2.2 operator==()

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

7.107.2.3 print()

```
virtual void qevercloud::SyncState::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.107.3 Member Data Documentation

7.107.3.1 currentTime

```
Timestamp qevercloud::SyncState::currentTime = 0
```

The server's current date and time.

7.107.3.2 fullSyncBefore

```
Timestamp qevercloud::SyncState::fullSyncBefore = 0
```

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.

7.107.3.3 localData

```
EverCloudLocalData qevercloud::SyncState::localData
```

See the declaration of EverCloudLocalData for details

7.107.3.4 updateCount

```
qint32 qevercloud::SyncState::updateCount = 0
```

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.

7.107.3.5 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.

7.107.3.6 userLastUpdated

```
Optional< Timestamp > qevercloud::SyncState::userLastUpdated
```

The last time when a user's account level information was changed. This value is the latest time when a modification was made to any of the following: accounting information (billing, quota, premium status, etc.), user attributes and business user information (business name, business user attributes, etc.) if the user is in a business. Clients who need to maintain account information about a User should watch this field for updates rather than polling User↩ Store.getUser for updates. Here is the basic flow that clients should follow:

1. Call NoteStore.getSyncState to retrieve the SyncState object
2. Compare SyncState.userLastUpdated to previously stored value: if (SyncState.userLastUpdated > previousValue) call UserStore.getUser to get the latest User object; else do nothing;
3. Update previousValue = SyncState.userLastUpdated

7.107.3.7 userMaxMessageEventId

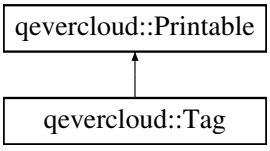
```
Optional< MessageEventID > qevercloud::SyncState::userMaxMessageEventId
```

The greatest MessageEventID for this user's account. Clients that do a full sync should store this value locally and compare their local copy to the value returned by getSyncState to determine if they need to sync with MessageStore. This value will be omitted if the user has never sent or received a message.

7.108 qevercloud::Tag Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::Tag:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const Tag &other) const
- bool operator!= (const Tag &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Guid > guid
- Optional< QString > name
- Optional< Guid > parentGuid
- Optional< qint32 > updateSequenceNum

7.108.1 Detailed Description

A tag within a user's account is a unique name which may be organized a simple hierarchy.

7.108.2 Member Function Documentation

7.108.2.1 operator"!=()

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

7.108.2.2 operator==()

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

7.108.2.3 print()

```
virtual void qevercloud::Tag::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.108.3 Member Data Documentation

7.108.3.1 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

7.108.3.2 localData

```
EverCloudLocalData qevercloud::Tag::localData
```

See the declaration of EverCloudLocalData for details

7.108.3.3 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

7.108.3.4 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

7.108.3.5 updateSequenceNum

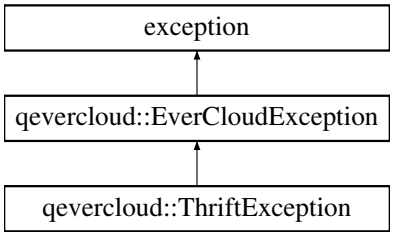
```
Optional< qint32 > qevercloud::Tag::updateSequenceNum
```

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.

7.109 qevercloud::ThriftException Class Reference

```
#include <Exceptions.h>
```

Inheritance diagram for qevercloud::ThriftException:



Public Types

- enum Type {
  Type::UNKNOWN = 0, Type::UNKNOWN_METHOD = 1, Type::INVALID_MESSAGE_TYPE = 2, Type::W↩
  RONG_METHOD_NAME = 3,
  Type::BAD_SEQUENCE_ID = 4, Type::MISSING_RESULT = 5, Type::INTERNAL_ERROR = 6, Type::PR↩
  OTOCOL_ERROR = 7,
  Type::INVALID_DATA = 8 }

Public Member Functions

- ThriftException ()
- ThriftException (Type type)
- ThriftException (Type type, QString message)
- virtual ~ThriftException () noexcept override
- bool operator== (const ThriftException &other) const
- bool operator!= (const ThriftException &other) const
- Type type () const
- const char * what () const noexcept override
- virtual EverCloudExceptionDataPtr exceptionData () const override

Protected Attributes

- Type m_type

Friends

- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &strm, const Type type)

7.109.1 Detailed Description

Errors of the Thrift protocol level. It could be wrongly formatted parameters or return values for example.

7.109.2 Member Enumeration Documentation

7.109.2.1 Type

```
enum qevercloud::ThriftException::Type  [strong]
```

Enumerator

UNKNOWN	
UNKNOWN_METHOD	
INVALID_MESSAGE_TYPE	
WRONG_METHOD_NAME	
BAD_SEQUENCE_ID	
MISSING_RESULT	
INTERNAL_ERROR	
PROTOCOL_ERROR	
INVALID_DATA	

7.109.3 Constructor & Destructor Documentation

7.109.3.1 ThriftException() [1/3]

```
qevercloud::ThriftException::ThriftException ( )
```

7.109.3.2 ThriftException() [2/3]

```
qevercloud::ThriftException::ThriftException (
            Type type )
```

7.109.3.3 ThriftException() [3/3]

```
qevercloud::ThriftException::ThriftException (
            Type type,
            QString message )
```

7.109.3.4 ~ThriftException()

```
virtual qevercloud::ThriftException::~ThriftException ( )  [override], [virtual], [noexcept]
```

7.109.4 Member Function Documentation

7.109.4.1 exceptionData()

```
virtual EverCloudExceptionDataPtr qevercloud::ThriftException::exceptionData ( ) const  [override],
[virtual]
```

Reimplemented from qevercloud::EverCloudException.

7.109.4.2 operator"!=()

```
bool qevercloud::ThriftException::operator!= (
            const ThriftException & other ) const
```

7.109.4.3 operator==()

```
bool qevercloud::ThriftException::operator== (
            const ThriftException & other ) const
```

7.109.4.4 type()

```
Type qevercloud::ThriftException::type ( ) const
```

7.109.4.5 what()

```
const char* qevercloud::ThriftException::what ( ) const  [override], [virtual], [noexcept]
```

Reimplemented from qevercloud::EverCloudException.

7.109.5 Friends And Related Function Documentation

7.109.5.1 operator<<

```
QEVERCLOUD_EXPORT QTextStream& operator<< (
            QTextStream & strm,
            const Type type )  [friend]
```

7.109.6 Member Data Documentation

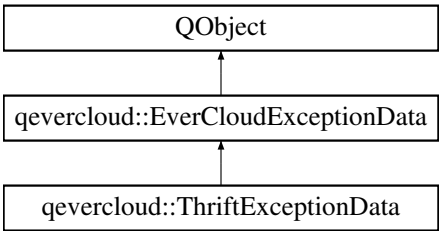
7.109.6.1 m_type

```
Type qevercloud::ThriftException::m_type  [protected]
```

7.110 qevercloud::ThriftExceptionData Class Reference

`#include <Exceptions.h>`

Inheritance diagram for qevercloud::ThriftExceptionData:



Public Member Functions

- ThriftExceptionData (QString error, ThriftException::Type type)
- virtual void throwException () const override

Protected Attributes

- ThriftException::Type m_type

Additional Inherited Members

7.110.1 Detailed Description

Asynchronous API counterpart of ThriftException. See EverCloudExceptionData for more details.

7.110.2 Constructor & Destructor Documentation

7.110.2.1 ThriftExceptionData()

```
qevercloud::ThriftExceptionData::ThriftExceptionData (
            QString error,
            ThriftException::Type type )  [explicit]
```

7.110.3 Member Function Documentation

7.110.3.1 throwException()

```
virtual void qevercloud::ThriftExceptionData::throwException ( ) const  [override], [virtual]
```

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

Reimplemented from qevercloud::EverCloudExceptionData.

7.110.4 Member Data Documentation

7.110.4.1 m_type

```
ThriftException::Type qevercloud::ThriftExceptionData::m_type  [protected]
```

7.111 qevercloud::Thumbnail Class Reference

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

```
#include <Thumbnail.h>
```

Public Types

- enum ImageType { ImageType::PNG, ImageType::JPEG, ImageType::GIF, ImageType::BMP }

Public Member Functions

- Thumbnail ()

  Default constructor.
- Thumbnail (QString host, QString shardId, QString authenticationToken, int size=300, ImageType image↩ Type=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 imageType)
- QByteArray download (Guid guid, const bool isPublic=false, const bool isResourceGuid=false, const qint64 timeoutMsec=30000)

  Downloads the thumbnail for a resource or a note.
- AsyncResult * downloadAsync (Guid guid, const bool isPublic=false, const bool isResourceGuid=false, const qint64 timeoutMsec=30000)
- std::pair< QNetworkRequest, QByteArray > createPostRequest (qevercloud::Guid guid, bool isPublic=false, bool isResourceGuid=false)

  Prepares a POST request for a thumbnail download.

Friends

- QEVERCLOUD_EXPORT QTextStream & operator<< (QTextStream &strm, const ImageType imageType)
- QEVERCLOUD_EXPORT QDebug & operator<< (QDebug &dbg, const ImageType imageType)

7.111.1 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 default 300x300 PNG images are requested.

7.111.2 Member Enumeration Documentation

7.111.2.1 ImageType

```
enum qevercloud::Thumbnail::ImageType  [strong]
```

Specifies image type of the returned thumbnail.

Can be PNG, JPEG, GIF or BMP.

Enumerator

PNG	
JPEG	
GIF	
BMP	

7.111.3 Constructor & Destructor Documentation

7.111.3.1 Thumbnail() [1/2]

```
qevercloud::Thumbnail::Thumbnail ( )
```

Default constructor.

host, shardId, authenticationToken have to be specified before calling download or createPostRequest

7.111.3.2 Thumbnail() [2/2]

```
qevercloud::Thumbnail::Thumbnail (
            QString host,
            QString shardId,
            QString authenticationToken,
            int size = 300,
            ImageType 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 default 300 is used.
imageType	Thumbnail image type. See ImageType. By default PNG is used.

7.111.3.3 ~Thumbnail()

```
virtual qevercloud::Thumbnail::~Thumbnail ( )  [virtual]
```

7.111.4 Member Function Documentation

7.111.4.1 createPostRequest()

```
std::pair<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.

7.111.4.2 download()

```
QByteArray qevercloud::Thumbnail::download (
            Guid guid,
            const bool isPublic = false,
            const bool isResourceGuid = false,
            const qint64 timeoutMsec = 30000 )
```

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.
timeoutMsec	Timeout for download request in milliseconds

Returns

downloaded data.

7.111.4.3 downloadAsync()

```
AsyncResult* qevercloud::Thumbnail::downloadAsync (
            Guid guid,
            const bool isPublic = false,
            const bool isResourceGuid = false,
            const qint64 timeoutMsec = 30000 )
```

Asynchronous version of download function

7.111.4.4 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.

7.111.4.5 setHost()

```
Thumbnail& qevercloud::Thumbnail::setHost (
            QString host )
```

Parameters

host	www.evernote.com or sandbox.evernote.com

7.111.4.6 setImageType()

```
Thumbnail& qevercloud::Thumbnail::setImageType (
            ImageType imageType )
```

Parameters

imageType	Thumbnail image type. See ImageType. By default PNG is used.

7.111.4.7 setShardId()

```
Thumbnail& qevercloud::Thumbnail::setShardId (
            QString shardId )
```

Parameters

shardId	You can get the value from UserStore service or as a result of an authentication.

7.111.4.8 setSize()

```
Thumbnail& qevercloud::Thumbnail::setSize (
            int size )
```

Parameters

size	The size of the thumbnail. Evernote supports values from from 1 to 300. By default 300 is used.

7.111.5 Friends And Related Function Documentation

7.111.5.1 operator<< [1/2]

```
QEVERCLOUD_EXPORT QTextStream& operator<< (
            QTextStream & strm,
            const ImageType imageType )  [friend]
```

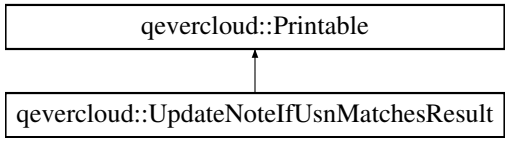
7.111.5.2 operator<< [2/2]

```
QEVERCLOUD_EXPORT QDebug& operator<< (
            QDebug & dbg,
            const ImageType imageType )  [friend]
```

7.112 qevercloud::UpdateNoteIfUsnMatchesResult Struct Reference

`#include <Types.h>`

Inheritance diagram for qevercloud::UpdateNoteIfUsnMatchesResult:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const UpdateNoteIfUsnMatchesResult &other) const
- bool operator!= (const UpdateNoteIfUsnMatchesResult &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< Note > note
- Optional< bool > updated

7.112.1 Detailed Description

The result of a call to updateNoteIfUsnMatches, which optionally updates a note based on the current value of the note's update sequence number on the service.

7.112.2 Member Function Documentation

7.112.2.1 operator"!=()

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

7.112.2.2 operator==()

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

7.112.2.3 print()

```
virtual void qevercloud::UpdateNoteIfUsnMatchesResult::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.112.3 Member Data Documentation

7.112.3.1 localData

```
EverCloudLocalData qevercloud::UpdateNoteIfUsnMatchesResult::localData
```

See the declaration of EverCloudLocalData for details

7.112.3.2 note

```
Optional< Note > qevercloud::UpdateNoteIfUsnMatchesResult::note
```

Either the current state of the note if `updated` is false or the result of updating the note as would be done via the `updateNote` method. If the note was not updated, you will receive a Note that does not include note content, resources data, resources recognition data, or resources alternate data. You can check for updates to these large objects by checking the Data.bodyHash values and downloading accordingly.

7.112.3.3 updated

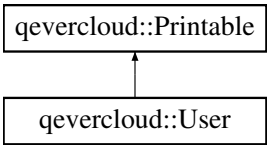
```
Optional< bool > qevercloud::UpdateNoteIfUsnMatchesResult::updated
```

Whether or not the note was updated by the operation.

7.113 qevercloud::User Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::User:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const User &other) const
- bool operator!= (const User &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< UserID > id
- Optional< QString > username
- Optional< QString > email
- Optional< QString > name
- Optional< QString > timezone
- Optional< PrivilegeLevel > privilege
- Optional< ServiceLevel > serviceLevel
- Optional< Timestamp > created
- Optional< Timestamp > updated
- Optional< Timestamp > deleted
- Optional< bool > active
- Optional< QString > shardId
- Optional< UserAttributes > attributes
- Optional< Accounting > accounting
- Optional< BusinessUserInfo > businessUserInfo
- Optional< QString > photoUrl
- Optional< Timestamp > photoLastUpdated
- Optional< AccountLimits > accountLimits

7.113.1 Detailed Description

This represents the information about a single user account.

7.113.2 Member Function Documentation

7.113.2.1 operator"!=()

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

7.113.2.2 operator==()

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

7.113.2.3 print()

```
virtual void qevercloud::User::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.113.3 Member Data Documentation

7.113.3.1 accounting

```
Optional< Accounting > qevercloud::User::accounting
```

Bookkeeping information for the user's subscription.

7.113.3.2 accountLimits

```
Optional< AccountLimits > qevercloud::User::accountLimits
```

Account limits applicable for this user.

7.113.3.3 active

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

If the user account is available for login and synchronization, this flag will be set to true.

7.113.3.4 attributes

```
Optional< UserAttributes > qevercloud::User::attributes
```

If present, this will contain a list of the attributes for this user account.

7.113.3.5 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.

7.113.3.6 created

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

The date and time when this user account was created in the service.

7.113.3.7 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.

7.113.3.8 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

7.113.3.9 id

```
Optional< UserID > qevercloud::User::id
```

The unique numeric identifier for the account, which will not change for the lifetime of the account.

7.113.3.10 localData

```
EverCloudLocalData qevercloud::User::localData
```

See the declaration of EverCloudLocalData for details

7.113.3.11 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

7.113.3.12 photoLastUpdated

`Optional< Timestamp > qevercloud::User::photoLastUpdated`

The time at which the photo at 'photoUrl' was last updated by this User. This field will be null if the User never set a profile photo. This field is filled in by the service and is read-only to clients.

7.113.3.13 photoUrl

`Optional< QString > qevercloud::User::photoUrl`

The URL of the photo that represents this User. This field is filled in by the service and is read-only to clients. If `photoLastUpdated` is not set, this url will point to a placeholder user photo generated by the service.

7.113.3.14 privilege

`Optional< PrivilegeLevel > qevercloud::User::privilege`

NOT DOCUMENTED

7.113.3.15 serviceLevel

`Optional< ServiceLevel > qevercloud::User::serviceLevel`

The level of service the user currently receives. This will always be populated for users retrieved from the Evernote service.

7.113.3.16 shardId

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

DEPRECATED - Client applications should have no need to use this field.

7.113.3.17 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

7.113.3.18 updated

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

The date and time when this user account was last modified in the service.

7.113.3.19 username

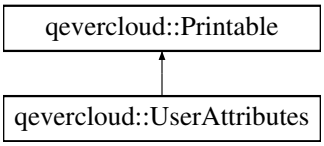
```
Optional< QString > qevercloud::User::username
```

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

7.114 qevercloud::UserAttributes Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::UserAttributes:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const UserAttributes &other) const
- bool operator!= (const UserAttributes &other) const

Public Attributes

- EverCloudLocalData localData
- 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 > useEmailAutoFiling
- Optional< ReminderEmailConfig > reminderEmailConfig
- Optional< Timestamp > emailAddressLastConfirmed
- Optional< Timestamp > passwordUpdated
- Optional< bool > salesforcePushEnabled
- Optional< bool > shouldLogClientEvent
- Optional< bool > optOutMachineLearning

7.114.1 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.

7.114.2 Member Function Documentation

7.114.2.1 operator"!=()

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

7.114.2.2 operator==()

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

7.114.2.3 print()

```
virtual void qevercloud::UserAttributes::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.114.3 Member Data Documentation

7.114.3.1 businessAddress

```
Optional< QString > qevercloud::UserAttributes::businessAddress
```

A string recording the business address of a Sponsored Account user who has requested invoicing.

7.114.3.2 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.

7.114.3.3 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

7.114.3.4 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.

7.114.3.5 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.

7.114.3.6 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.

7.114.3.7 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

7.114.3.8 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.

7.114.3.9 educationalDiscount

```
Optional< bool > qevercloud::UserAttributes::educationalDiscount
```

NOT DOCUMENTED

7.114.3.10 emailAddressLastConfirmed

```
Optional< Timestamp > qevercloud::UserAttributes::emailAddressLastConfirmed
```

If set, this contains the time at which the user last confirmed that the configured email address for this account is correct and up-to-date. If this is unset that indicates that the user's email address is unverified.

7.114.3.11 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.

7.114.3.12 groupName

```
Optional< QString > qevercloud::UserAttributes::groupName
```

A name identifier used to identify a particular set of branding and light customization.

7.114.3.13 hideSponsorBilling

```
Optional< bool > qevercloud::UserAttributes::hideSponsorBilling
```

A flag indicating whether to hide the billing information on a sponsored account owner's settings page

7.114.3.14 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

7.114.3.15 localData

```
EverCloudLocalData qevercloud::UserAttributes::localData
```

See the declaration of EverCloudLocalData for details

7.114.3.16 maxReferrals

```
Optional< qint32 > qevercloud::UserAttributes::maxReferrals
```

The number of referrals that the user is permitted to make.

7.114.3.17 optOutMachineLearning

```
Optional< bool > qevercloud::UserAttributes::optOutMachineLearning
```

If set to True, no Machine Learning nor human review will be done to this user's note contents.

7.114.3.18 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.

7.114.3.19 passwordUpdated

```
Optional< Timestamp > qevercloud::UserAttributes::passwordUpdated
```

If set, this contains the time at which the user's password last changed. This will be unset for users created before the addition of this field who have not changed their passwords since the addition of this field.

7.114.3.20 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.

7.114.3.21 preferredCountry

```
Optional< QString > qevercloud::UserAttributes::preferredCountry
```

Preferred country code based on ISO 3166-1-alpha-2 indicating the users preferred country

7.114.3.22 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).

7.114.3.23 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

7.114.3.24 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.

7.114.3.25 refererCode

```
Optional< QString > qevercloud::UserAttributes::refererCode
```

A code indicating where the user was sent from. AKA promotion code

7.114.3.26 referralCount

```
Optional< qint32 > qevercloud::UserAttributes::referralCount
```

The number of referrals sent from this account.

7.114.3.27 referralProof

```
Optional< QString > qevercloud::UserAttributes::referralProof
```

NOT DOCUMENTED

7.114.3.28 reminderEmailConfig

```
Optional< ReminderEmailConfig > 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.

7.114.3.29 salesforcePushEnabled

```
Optional< bool > qevercloud::UserAttributes::salesforcePushEnabled
```

NOT DOCUMENTED

7.114.3.30 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.

7.114.3.31 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.

7.114.3.32 shouldLogClientEvent

```
Optional< bool > qevercloud::UserAttributes::shouldLogClientEvent
```

If set to True, the server will record LogRequest send from clients of this user as ClientEventLog.

7.114.3.33 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.

7.114.3.34 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.

7.114.3.35 useEmailAutoFiling

```
Optional< bool > qevercloud::UserAttributes::useEmailAutoFiling
```

A flag indicating whether the user chooses to allow Evernote to automatically file and tag emailed notes

7.114.3.36 viewedPromotions

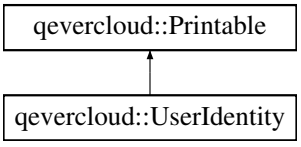
```
Optional< QStringList > qevercloud::UserAttributes::viewedPromotions
```

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

7.115 qevercloud::UserIdentity Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::UserIdentity:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const UserIdentity &other) const
- bool operator!= (const UserIdentity &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< UserIdentityType > type
- Optional< QString > stringIdentifier
- Optional< qint64 > longIdentifier

7.115.1 Detailed Description

A structure that holds user identifying information such as an email address, Evernote user ID, or an identifier from a 3rd party service. An instance consists of a type and a value, where the value will be stored in one of the value fields depending upon the data type required for the identity type.

When used with shared notebook invitations, a UserIdentity identifies a particular person who may not (yet) have an Evernote UserID UserIdentity but who has (almost) unique access to the service endpoint described by the UserIdentity. For example, an e-mail UserIdentity can identify the person who receives e-mail at the given address, and who can therefore read the share key that has a cryptographic signature from the Evernote service. With the share key, this person can supply their Evernote UserID via an authentication token to join the notebook (authenticateToSharedNotebook), at which time we have associated the e-mail UserIdentity with an Evernote UserID UserIdentity. Note that using shared notebook records, the relationship between Evernote UserIDs and e-mail addresses is many to many.

Note that the identifier may not directly identify a particular Evernote UserID UserIdentity without further verification. For example, an e-mail UserIdentity may be associated with an invitation to join a notebook (via a shared notebook record), but until a user uses a share key, that was sent to that e-mail address, to join the notebook, we do not know an Evernote UserID UserIdentity ID to match the e-mail address.

7.115.2 Member Function Documentation

7.115.2.1 operator"!=()

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

7.115.2.2 operator==()

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

7.115.2.3 print()

```
virtual void qevercloud::UserIdentity::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.115.3 Member Data Documentation

7.115.3.1 localData

```
EverCloudLocalData qevercloud::UserIdentity::localData
```

See the declaration of EverCloudLocalData for details

7.115.3.2 longIdentifier

```
Optional< qint64 > qevercloud::UserIdentity::longIdentifier
```

NOT DOCUMENTED

7.115.3.3 stringIdentifier

```
Optional< QString > qevercloud::UserIdentity::stringIdentifier
```

NOT DOCUMENTED

7.115.3.4 type

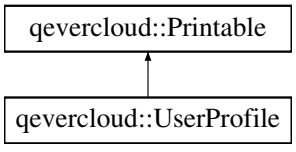
```
Optional< UserIdentityType > qevercloud::UserIdentity::type
```

NOT DOCUMENTED

7.116 qevercloud::UserProfile Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::UserProfile:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const UserProfile &other) const
- bool operator!= (const UserProfile &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< UserID > id
- Optional< QString > name
- Optional< QString > email
- Optional< QString > username
- Optional< BusinessUserAttributes > attributes
- Optional< Timestamp > joined
- Optional< Timestamp > photoLastUpdated
- Optional< QString > photoUrl
- Optional< BusinessUserRole > role
- Optional< BusinessUserStatus > status

7.116.1 Detailed Description

This structure represents profile information for a user in a business.

7.116.2 Member Function Documentation

7.116.2.1 operator"!=()

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

7.116.2.2 operator==()

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

7.116.2.3 print()

```
virtual void qevercloud::UserProfile::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.116.3 Member Data Documentation

7.116.3.1 attributes

```
Optional< BusinessUserAttributes > qevercloud::UserProfile::attributes
```

The user's business specific attributes.

7.116.3.2 email

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

The user's business email address. If the user has not registered their business email address, this field will be empty.

7.116.3.3 id

```
Optional< UserID > qevercloud::UserProfile::id
```

The numeric identifier that uniquely identifies a user.

7.116.3.4 joined

```
Optional< Timestamp > qevercloud::UserProfile::joined
```

The time when the user joined the business

7.116.3.5 localData

```
EverCloudLocalData qevercloud::UserProfile::localData
```

See the declaration of EverCloudLocalData for details

7.116.3.6 name

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

The full name of the user.

7.116.3.7 photoLastUpdated

```
Optional< Timestamp > qevercloud::UserProfile::photoLastUpdated
```

The time when the user's profile photo was most recently updated

7.116.3.8 photoUrl

```
Optional< QString > qevercloud::UserProfile::photoUrl
```

A URL identifying a copy of the user's current profile photo

7.116.3.9 role

```
Optional< BusinessUserRole > qevercloud::UserProfile::role
```

The BusinessUserRole for the user

7.116.3.10 status

```
Optional< BusinessUserStatus > qevercloud::UserProfile::status
```

The BusinessUserStatus for the user

7.116.3.11 username

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

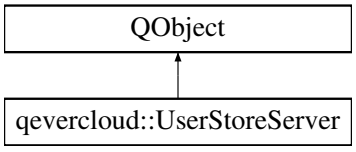
The user's Evernote username.

7.117 qevercloud::UserStoreServer Class Reference

The UserStoreServer class represents customizable server for UserStore requests. It is primarily used for testing of QEverCloud.

```
#include <Servers.h>
```

Inheritance diagram for qevercloud::UserStoreServer:



Public Slots

- void onRequest (QByteArray data)
- void onCheckVersionRequestReady (bool value, EverCloudExceptionDataPtr exceptionData)
- void onGetBootstrapInfoRequestReady (BootstrapInfo value, EverCloudExceptionDataPtr exceptionData)
- void onAuthenticateLongSessionRequestReady (AuthenticationResult value, EverCloudExceptionDataPtr exceptionData)
- void onCompleteTwoFactorAuthenticationRequestReady (AuthenticationResult value, EverCloudException↩ DataPtr exceptionData)
- void onRevokeLongSessionRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onAuthenticateToBusinessRequestReady (AuthenticationResult value, EverCloudExceptionDataPtr exceptionData)
- void onGetUserRequestReady (User value, EverCloudExceptionDataPtr exceptionData)
- void onGetPublicUserInfoRequestReady (PublicUserInfo value, EverCloudExceptionDataPtr exceptionData)
- void onGetUserUrlsRequestReady (UserUrls value, EverCloudExceptionDataPtr exceptionData)
- void onInviteToBusinessRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onRemoveFromBusinessRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onUpdateBusinessUserIdentifierRequestReady (EverCloudExceptionDataPtr exceptionData)
- void onListBusinessUsersRequestReady (QList< UserProfile > value, EverCloudExceptionDataPtr exceptionData)
- void onListBusinessInvitationsRequestReady (QList< BusinessInvitation > value, EverCloudException↩ DataPtr exceptionData)
- void onGetAccountLimitsRequestReady (AccountLimits value, EverCloudExceptionDataPtr exceptionData)

Signals

- void checkVersionRequest (QString clientName, qint16 edamVersionMajor, qint16 edamVersionMinor, I↩ RequestContextPtr ctx)
- void getBootstrapInfoRequest (QString locale, IRequestContextPtr ctx)
- void authenticateLongSessionRequest (QString username, QString password, QString consumerKey, Q↩ String consumerSecret, QString deviceIdentifier, QString deviceDescription, bool supportsTwoFactor, I↩ RequestContextPtr ctx)
- void completeTwoFactorAuthenticationRequest (QString oneTimeCode, QString deviceIdentifier, QString deviceDescription, IRequestContextPtr ctx)
- void revokeLongSessionRequest (IRequestContextPtr ctx)
- void authenticateToBusinessRequest (IRequestContextPtr ctx)
- void getUserRequest (IRequestContextPtr ctx)
- void getPublicUserInfoRequest (QString username, IRequestContextPtr ctx)
- void getUserUrlsRequest (IRequestContextPtr ctx)
- void inviteToBusinessRequest (QString emailAddress, IRequestContextPtr ctx)
- void removeFromBusinessRequest (QString emailAddress, IRequestContextPtr ctx)
- void updateBusinessUserIdentifierRequest (QString oldEmailAddress, QString newEmailAddress, I↩ RequestContextPtr ctx)
- void listBusinessUsersRequest (IRequestContextPtr ctx)
- void listBusinessInvitationsRequest (bool includeRequestedInvitations, IRequestContextPtr ctx)
- void getAccountLimitsRequest (ServiceLevel serviceLevel, IRequestContextPtr ctx)
- void checkVersionRequestReady (QByteArray data)
- void getBootstrapInfoRequestReady (QByteArray data)
- void authenticateLongSessionRequestReady (QByteArray data)
- void completeTwoFactorAuthenticationRequestReady (QByteArray data)
- void revokeLongSessionRequestReady (QByteArray data)
- void authenticateToBusinessRequestReady (QByteArray data)
- void getUserRequestReady (QByteArray data)
- void getPublicUserInfoRequestReady (QByteArray data)

- void getUserUrlsRequestReady (QByteArray data)
- void inviteToBusinessRequestReady (QByteArray data)
- void removeFromBusinessRequestReady (QByteArray data)
- void updateBusinessUserIdentifierRequestReady (QByteArray data)
- void listBusinessUsersRequestReady (QByteArray data)
- void listBusinessInvitationsRequestReady (QByteArray data)
- void getAccountLimitsRequestReady (QByteArray data)

Public Member Functions

- UserStoreServer (QObject *parent=nullptr)

7.117.1 Detailed Description

The UserStoreServer class represents customizable server for UserStore requests. It is primarily used for testing of QEverCloud.

7.117.2 Constructor & Destructor Documentation

7.117.2.1 UserStoreServer()

```
qevercloud::UserStoreServer::UserStoreServer (
            QObject * parent = nullptr )  [explicit]
```

7.117.3 Member Function Documentation

7.117.3.1 authenticateLongSessionRequest

```
void qevercloud::UserStoreServer::authenticateLongSessionRequest (
            QString username,
            QString password,
            QString consumerKey,
            QString consumerSecret,
            QString deviceIdentifier,
            QString deviceDescription,
            bool supportsTwoFactor,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.2 authenticateLongSessionRequestReady

```
void qevercloud::UserStoreServer::authenticateLongSessionRequestReady (
            QByteArray data )  [signal]
```

7.117.3.3 authenticateToBusinessRequest

```
void qevercloud::UserStoreServer::authenticateToBusinessRequest (
            IRequestContextPtr ctx )  [signal]
```

7.117.3.4 authenticateToBusinessRequestReady

```
void qevercloud::UserStoreServer::authenticateToBusinessRequestReady (
            QByteArray data )  [signal]
```

7.117.3.5 checkVersionRequest

```
void qevercloud::UserStoreServer::checkVersionRequest (
            QString clientName,
            qint16 edamVersionMajor,
            qint16 edamVersionMinor,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.6 checkVersionRequestReady

```
void qevercloud::UserStoreServer::checkVersionRequestReady (
            QByteArray data )  [signal]
```

7.117.3.7 completeTwoFactorAuthenticationRequest

```
void qevercloud::UserStoreServer::completeTwoFactorAuthenticationRequest (
            QString oneTimeCode,
            QString deviceIdentifier,
            QString deviceDescription,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.8 completeTwoFactorAuthenticationRequestReady

```
void qevercloud::UserStoreServer::completeTwoFactorAuthenticationRequestReady (
            QByteArray data )  [signal]
```

7.117.3.9 getAccountLimitsRequest

```
void qevercloud::UserStoreServer::getAccountLimitsRequest (
            ServiceLevel serviceLevel,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.10 getAccountLimitsRequestReady

```
void qevercloud::UserStoreServer::getAccountLimitsRequestReady (
            QByteArray data )  [signal]
```

7.117.3.11 getBootstrapInfoRequest

```
void qevercloud::UserStoreServer::getBootstrapInfoRequest (
            QString locale,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.12 getBootstrapInfoRequestReady

```
void qevercloud::UserStoreServer::getBootstrapInfoRequestReady (
            QByteArray data )  [signal]
```

7.117.3.13 getPublicUserInfoRequest

```
void qevercloud::UserStoreServer::getPublicUserInfoRequest (
            QString username,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.14 getPublicUserInfoRequestReady

```
void qevercloud::UserStoreServer::getPublicUserInfoRequestReady (
            QByteArray data )  [signal]
```

7.117.3.15 getUserRequest

```
void qevercloud::UserStoreServer::getUserRequest (
            IRequestContextPtr ctx )  [signal]
```

7.117.3.16 getUserRequestReady

```
void qevercloud::UserStoreServer::getUserRequestReady (
            QByteArray data )  [signal]
```

7.117.3.17 getUserUrlsRequest

```
void qevercloud::UserStoreServer::getUserUrlsRequest (
            IRequestContextPtr ctx )  [signal]
```

7.117.3.18 getUserUrlsRequestReady

```
void qevercloud::UserStoreServer::getUserUrlsRequestReady (
            QByteArray data )  [signal]
```

7.117.3.19 inviteToBusinessRequest

```
void qevercloud::UserStoreServer::inviteToBusinessRequest (
            QString emailAddress,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.20 inviteToBusinessRequestReady

```
void qevercloud::UserStoreServer::inviteToBusinessRequestReady (
            QByteArray data )  [signal]
```

7.117.3.21 listBusinessInvitationsRequest

```
void qevercloud::UserStoreServer::listBusinessInvitationsRequest (
            bool includeRequestedInvitations,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.22 listBusinessInvitationsRequestReady

```
void qevercloud::UserStoreServer::listBusinessInvitationsRequestReady (
            QByteArray data )  [signal]
```

7.117.3.23 listBusinessUsersRequest

```
void qevercloud::UserStoreServer::listBusinessUsersRequest (
            IRequestContextPtr ctx )  [signal]
```

7.117.3.24 listBusinessUsersRequestReady

```
void qevercloud::UserStoreServer::listBusinessUsersRequestReady (
            QByteArray data )  [signal]
```

7.117.3.25 onAuthenticateLongSessionRequestReady

```
void qevercloud::UserStoreServer::onAuthenticateLongSessionRequestReady (
            AuthenticationResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.26 onAuthenticateToBusinessRequestReady

```
void qevercloud::UserStoreServer::onAuthenticateToBusinessRequestReady (
            AuthenticationResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.27 onCheckVersionRequestReady

```
void qevercloud::UserStoreServer::onCheckVersionRequestReady (
            bool value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.28 onCompleteTwoFactorAuthenticationRequestReady

```
void qevercloud::UserStoreServer::onCompleteTwoFactorAuthenticationRequestReady (
            AuthenticationResult value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.29 onGetAccountLimitsRequestReady

```
void qevercloud::UserStoreServer::onGetAccountLimitsRequestReady (
            AccountLimits value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.30 onGetBootstrapInfoRequestReady

```
void qevercloud::UserStoreServer::onGetBootstrapInfoRequestReady (
            BootstrapInfo value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.31 onGetPublicUserInfoRequestReady

```
void qevercloud::UserStoreServer::onGetPublicUserInfoRequestReady (
            PublicUserInfo value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.32 onGetUserRequestReady

```
void qevercloud::UserStoreServer::onGetUserRequestReady (
            User value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.33 onGetUserUrlsRequestReady

```
void qevercloud::UserStoreServer::onGetUserUrlsRequestReady (
            UserUrls value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.34 onInviteToBusinessRequestReady

```
void qevercloud::UserStoreServer::onInviteToBusinessRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.35 onListBusinessInvitationsRequestReady

```
void qevercloud::UserStoreServer::onListBusinessInvitationsRequestReady (
            QList< BusinessInvitation > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.36 onListBusinessUsersRequestReady

```
void qevercloud::UserStoreServer::onListBusinessUsersRequestReady (
            QList< UserProfile > value,
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.37 onRemoveFromBusinessRequestReady

```
void qevercloud::UserStoreServer::onRemoveFromBusinessRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.38 onRequest

```
void qevercloud::UserStoreServer::onRequest (
            QByteArray data )  [slot]
```

7.117.3.39 onRevokeLongSessionRequestReady

```
void qevercloud::UserStoreServer::onRevokeLongSessionRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.40 onUpdateBusinessUserIdentifierRequestReady

```
void qevercloud::UserStoreServer::onUpdateBusinessUserIdentifierRequestReady (
            EverCloudExceptionDataPtr exceptionData )  [slot]
```

7.117.3.41 removeFromBusinessRequest

```
void qevercloud::UserStoreServer::removeFromBusinessRequest (
            QString emailAddress,
            IRequestContextPtr ctx )  [signal]
```

7.117.3.42 removeFromBusinessRequestReady

```
void qevercloud::UserStoreServer::removeFromBusinessRequestReady (
            QByteArray data )  [signal]
```

7.117.3.43 revokeLongSessionRequest

```
void qevercloud::UserStoreServer::revokeLongSessionRequest (
            IRequestContextPtr ctx )  [signal]
```

7.117.3.44 revokeLongSessionRequestReady

```
void qevercloud::UserStoreServer::revokeLongSessionRequestReady (
            QByteArray data )  [signal]
```

7.117.3.45 updateBusinessUserIdentifierRequest

```
void qevercloud::UserStoreServer::updateBusinessUserIdentifierRequest (
            QString oldEmailAddress,
            QString newEmailAddress,
            IRequestContextPtr ctx )  [signal]
```

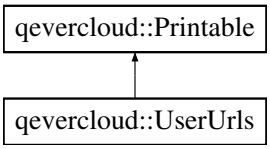
7.117.3.46 updateBusinessUserIdentifierRequestReady

```
void qevercloud::UserStoreServer::updateBusinessUserIdentifierRequestReady (
            QByteArray data )  [signal]
```

7.118 qevercloud::UserUrls Struct Reference

```
#include <Types.h>
```

Inheritance diagram for qevercloud::UserUrls:



Public Member Functions

- virtual void print (QTextStream &strm) const override
- bool operator== (const UserUrls &other) const
- bool operator!= (const UserUrls &other) const

Public Attributes

- EverCloudLocalData localData
- Optional< QString > noteStoreUrl
- Optional< QString > webApiUrlPrefix
- Optional< QString > userStoreUrl
- Optional< QString > utilityUrl
- Optional< QString > messageStoreUrl
- Optional< QString > userWebSocketUrl

7.118.1 Member Function Documentation

7.118.1.1 operator"!=()

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

7.118.1.2 operator==()

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

7.118.1.3 print()

```
virtual void qevercloud::UserUrls::print (
            QTextStream & strm ) const  [override], [virtual]
```

Implements qevercloud::Printable.

7.118.2 Member Data Documentation

7.118.2.1 localData

```
EverCloudLocalData qevercloud::UserUrls::localData
```

See the declaration of EverCloudLocalData for details

7.118.2.2 messageStoreUrl

```
Optional< QString > qevercloud::UserUrls::messageStoreUrl
```

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

7.118.2.3 noteStoreUrl

```
Optional< QString > qevercloud::UserUrls::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.

7.118.2.4 userStoreUrl

```
Optional< QString > qevercloud::UserUrls::userStoreUrl
```

This field will contain the full URL that clients should use to make UserStore requests after successfully authenticating. I.e. this is the URL that should be used to create the Thrift HTTP client transport to send messages to the UserStore service for this account.

7.118.2.5 userWebSocketUrl

```
Optional< QString > qevercloud::UserUrls::userWebSocketUrl
```

This field will contain the full URL that clients should use when opening a persistent web socket to receive notification of events for the authenticated user.

7.118.2.6 utilityUrl

```
Optional< QString > qevercloud::UserUrls::utilityUrl
```

This field will contain the full URL that clients should use to make Utility 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 Utility service for the account.

7.118.2.7 webApiUrlPrefix

```
Optional< QString > qevercloud::UserUrls::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.

Chapter 8

File Documentation

8.1 AsyncResult.h File Reference

```
#include "EverCloudException.h"
#include "Export.h"
#include "Helpers.h"
#include "RequestContext.h"
#include <QNetworkRequest>
#include <QObject>
#include <QUuid>
```

Classes

- class qevercloud::AsyncResult

  Returned by asynchonous versions of functions.

Namespaces

- qevercloud

8.2 Constants.h File Reference

```
#include "../Export.h"
```

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_TIFF
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MIME_TYPE_BMP
- 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 QSet< QString > qevercloud::EDAM_INDEXABLE_PLAINTEXT_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_WORKSPACE_NAME_LEN_MIN
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_WORKSPACE_NAME_LEN_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_WORKSPACE_DESCRIPTION_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_WORKSPACE_NAME_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 QString qevercloud::EDAM_BUSINESS_MARKETING_CODE_REGEX_↩ PATTERN
- 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_USER_WORKSPACES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_NOTEBOOKS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_BUSINESS_WORKSPACES_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_FIRST_↩ MONTH

- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS_NEXT_↩ MONTH
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_PLUS
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_SURVEY_THRESHOLD
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS
- QEVERCLOUD_EXPORT const qint64 qevercloud::EDAM_USER_UPLOAD_LIMIT_BUSINESS_PER_U↩ SER
- 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_BUSINESS_SHARED_NOTEB↩ OOK_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTEBOOK_PERSONAL_SHARED_NOTEB↩ OOK_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_BUSINESS_SHARED_NOTE_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_PERSONAL_SHARED_NOTE_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 QString qevercloud::EDAM_SOURCE_APPLICATION_POSTIT
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_MOLESKINE
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_EN_SCANSNAP
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_EWC
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_ANDROID_SHA↩ RE_EXTENSION
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_IOS_SHARE_EX↩ TENSION
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_APPLICATION_WEB_CLIPPER
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_SOURCE_OUTLOOK_CLIPPER
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_UNTITLED
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_LOW
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_MEDIUM
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_TITLE_QUALITY_HIGH
- 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_RELATED_MAX_EXPERTS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_RELATED_MAX_RELATED_CONTENT

- 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 qint32 qevercloud::EDAM_PREFERENCE_ONLY_ONE_VALUE_LEN_M↩AX
- 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_ONLY_ONE_VALUE_REGEX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_SHORTCUTS
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_BUSINESS_DEFAULT_NO↩TEBOOK
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PREFERENCE_BUSINESS_QUICKNOTE
- 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 qint32 qevercloud::EDAM_FIND_CONTACT_DEFAULT_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_FIND_CONTACT_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_NOTE_LOCK_VIEWERS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_GET_ORDERS_MAX_RESULTS
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_BODY_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_BODY_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_RECIPIENTS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENTS_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENT_TITLE_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_ATTACHMENT_TITLE_REGEX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_MESSAGE_ATTACHMENT_SNIPPET_LEN_↩MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_MESSAGE_ATTACHMENT_SNIPPET_REG↩EX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_USER_PROFILE_PHOTO_MAX_BYTES
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_PROMOTION_ID_LEN_MAX
- QEVERCLOUD_EXPORT const QString qevercloud::EDAM_PROMOTION_ID_REGEX
- QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_APP_RATING_MIN
- QEVERCLOUD_EXPORT const qint16 qevercloud::EDAM_APP_RATING_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_SNIPPETS_NOTES_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_CONNECTED_IDENTITY_REQUEST_MAX
- QEVERCLOUD_EXPORT const qint32 qevercloud::EDAM_OPEN_ID_ACCESS_TOKEN_MAX
- 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_WEB_CLIP_SIMPLIFIED
- 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 DurableService.h File Reference

```
#include "AsyncResult.h"
#include "Export.h"
#include "RequestContext.h"
#include <QDateTime>
#include <QVariant>
#include <functional>
#include <memory>
#include <utility>
```

Classes

- struct qevercloud::IRetryPolicy
- class qevercloud::IDurableService
- struct qevercloud::IDurableService::SyncRequest
- struct qevercloud::IDurableService::AsyncRequest

Namespaces

- qevercloud

Typedefs

- using qevercloud::IRetryPolicyPtr = std::shared_ptr< IRetryPolicy >
- using qevercloud::IDurableServicePtr = std::shared_ptr< IDurableService >

Functions

- QEVERCLOUD_EXPORT IRetryPolicyPtr qevercloud::newRetryPolicy ()
- QEVERCLOUD_EXPORT IRetryPolicyPtr qevercloud::nullRetryPolicy ()
- QEVERCLOUD_EXPORT IDurableServicePtr qevercloud::newDurableService (IRetryPolicyPtr={}, IRequestContextPtr={})

8.4 EDAMErrorCode.h File Reference

```
#include "../Export.h"
#include "../Helpers.h"
#include <QDebug>
#include <QMetaType>
#include <QTextStream>
```

Namespaces

- qevercloud

Enumerations

- enum qevercloud::EDAMErrorCode {
  qevercloud::EDAMErrorCode::UNKNOWN = 1, qevercloud::EDAMErrorCode::BAD_DATA_FORMAT = 2,
  qevercloud::EDAMErrorCode::PERMISSION_DENIED = 3, qevercloud::EDAMErrorCode::INTERNAL_ER↩
  ROR = 4,
  qevercloud::EDAMErrorCode::DATA_REQUIRED = 5, qevercloud::EDAMErrorCode::LIMIT_REACHED = 6,
  qevercloud::EDAMErrorCode::QUOTA_REACHED = 7, qevercloud::EDAMErrorCode::INVALID_AUTH = 8,
  qevercloud::EDAMErrorCode::AUTH_EXPIRED = 9, qevercloud::EDAMErrorCode::DATA_CONFLICT = 10,
  qevercloud::EDAMErrorCode::ENML_VALIDATION = 11, qevercloud::EDAMErrorCode::SHARD_UNAVAI↩
  LABLE = 12,
  qevercloud::EDAMErrorCode::LEN_TOO_SHORT = 13, qevercloud::EDAMErrorCode::LEN_TOO_LONG =
  14, qevercloud::EDAMErrorCode::TOO_FEW = 15, qevercloud::EDAMErrorCode::TOO_MANY = 16,
  qevercloud::EDAMErrorCode::UNSUPPORTED_OPERATION = 17, qevercloud::EDAMErrorCode::TAKE↩
  N_DOWN = 18, qevercloud::EDAMErrorCode::RATE_LIMIT_REACHED = 19, qevercloud::EDAMError↩
  Code::BUSINESS_SECURITY_LOGIN_REQUIRED = 20,
  qevercloud::EDAMErrorCode::DEVICE_LIMIT_REACHED = 21, qevercloud::EDAMErrorCode::OPENID_↩
  ALREADY_TAKEN = 22, qevercloud::EDAMErrorCode::INVALID_OPENID_TOKEN = 23, qevercloud::ED↩
  AMErrorCode::USER_NOT_ASSOCIATED = 24,
  qevercloud::EDAMErrorCode::USER_NOT_REGISTERED = 25, qevercloud::EDAMErrorCode::USER_AL↩
  READY_ASSOCIATED = 26, qevercloud::EDAMErrorCode::ACCOUNT_CLEAR = 27, qevercloud::EDAM↩
  ErrorCode::SSO_AUTHENTICATION_REQUIRED = 28 }
- enum qevercloud::EDAMInvalidContactReason { qevercloud::EDAMInvalidContactReason::BAD_ADDRE↩
  SS, qevercloud::EDAMInvalidContactReason::DUPLICATE_CONTACT, qevercloud::EDAMInvalidContact↩
  Reason::NO_CONNECTION }
- enum qevercloud::ShareRelationshipPrivilegeLevel { qevercloud::ShareRelationshipPrivilegeLevel::RE↩
  AD_NOTEBOOK = 0, qevercloud::ShareRelationshipPrivilegeLevel::READ_NOTEBOOK_PLUS_ACTI↩
  VITY = 10, qevercloud::ShareRelationshipPrivilegeLevel::MODIFY_NOTEBOOK_PLUS_ACTIVITY = 20,
  qevercloud::ShareRelationshipPrivilegeLevel::FULL_ACCESS = 30 }
- enum qevercloud::PrivilegeLevel {
  qevercloud::PrivilegeLevel::NORMAL = 1, qevercloud::PrivilegeLevel::PREMIUM = 3, qevercloud::Privilege↩
  Level::VIP = 5, qevercloud::PrivilegeLevel::MANAGER = 7,
  qevercloud::PrivilegeLevel::SUPPORT = 8, qevercloud::PrivilegeLevel::ADMIN = 9 }
- enum qevercloud::ServiceLevel { qevercloud::ServiceLevel::BASIC = 1, qevercloud::ServiceLevel::PLUS = 2,
  qevercloud::ServiceLevel::PREMIUM = 3, qevercloud::ServiceLevel::BUSINESS = 4 }
- enum qevercloud::QueryFormat { qevercloud::QueryFormat::USER = 1, qevercloud::QueryFormat::SEXP =
  2 }
- enum qevercloud::NoteSortOrder {
  qevercloud::NoteSortOrder::CREATED = 1, qevercloud::NoteSortOrder::UPDATED = 2, qevercloud::Note↩
  SortOrder::RELEVANCE = 3, qevercloud::NoteSortOrder::UPDATE_SEQUENCE_NUMBER = 4,
  qevercloud::NoteSortOrder::TITLE = 5 }
- enum qevercloud::PremiumOrderStatus {
  qevercloud::PremiumOrderStatus::NONE = 0, qevercloud::PremiumOrderStatus::PENDING = 1, qevercloud↩
  ::PremiumOrderStatus::ACTIVE = 2, qevercloud::PremiumOrderStatus::FAILED = 3,
  qevercloud::PremiumOrderStatus::CANCELLATION_PENDING = 4, qevercloud::PremiumOrderStatus::C↩
  ANCELED = 5 }
- enum qevercloud::SharedNotebookPrivilegeLevel {
  qevercloud::SharedNotebookPrivilegeLevel::READ_NOTEBOOK = 0, qevercloud::SharedNotebook↩
  PrivilegeLevel::MODIFY_NOTEBOOK_PLUS_ACTIVITY = 1, qevercloud::SharedNotebookPrivilegeLevel↩
  ::READ_NOTEBOOK_PLUS_ACTIVITY = 2, qevercloud::SharedNotebookPrivilegeLevel::GROUP = 3,
  qevercloud::SharedNotebookPrivilegeLevel::FULL_ACCESS = 4, qevercloud::SharedNotebookPrivilege↩
  Level::BUSINESS_FULL_ACCESS = 5 }

- enum qevercloud::SharedNotePrivilegeLevel { qevercloud::SharedNotePrivilegeLevel::READ_NOTE = 0, qevercloud::SharedNotePrivilegeLevel::MODIFY_NOTE = 1, qevercloud::SharedNotePrivilegeLevel::FUL↩ L_ACCESS = 2 }
- enum qevercloud::SponsoredGroupRole { qevercloud::SponsoredGroupRole::GROUP_MEMBER = 1, qevercloud::SponsoredGroupRole::GROUP_ADMIN = 2, qevercloud::SponsoredGroupRole::GROUP_↩ OWNER = 3 }
- enum qevercloud::BusinessUserRole { qevercloud::BusinessUserRole::ADMIN = 1, qevercloud::Business↩ UserRole::NORMAL = 2 }
- enum qevercloud::BusinessUserStatus { qevercloud::BusinessUserStatus::ACTIVE = 1, qevercloud::↩ BusinessUserStatus::DEACTIVATED = 2 }
- enum qevercloud::SharedNotebookInstanceRestrictions { qevercloud::SharedNotebookInstanceRestrictions↩ ::ASSIGNED = 1, qevercloud::SharedNotebookInstanceRestrictions::NO_SHARED_NOTEBOOKS = 2 }
- enum qevercloud::ReminderEmailConfig { qevercloud::ReminderEmailConfig::DO_NOT_SEND = 1, qevercloud::ReminderEmailConfig::SEND_DAILY_EMAIL = 2 }
- enum qevercloud::BusinessInvitationStatus { qevercloud::BusinessInvitationStatus::APPROVED = 0, qevercloud::BusinessInvitationStatus::REQUESTED = 1, qevercloud::BusinessInvitationStatus::REDEE↩ MED = 2 }
- enum qevercloud::ContactType { qevercloud::ContactType::EVERNOTE = 1, qevercloud::ContactType::SMS = 2, qevercloud::ContactType::↩ FACEBOOK = 3, qevercloud::ContactType::EMAIL = 4, qevercloud::ContactType::TWITTER = 5, qevercloud::ContactType::LINKEDIN = 6 }
- enum qevercloud::EntityType { qevercloud::EntityType::NOTE = 1, qevercloud::EntityType::NOTEBOOK = 2, qevercloud::EntityType::WORKSPACE = 3 }
- enum qevercloud::RecipientStatus { qevercloud::RecipientStatus::NOT_IN_MY_LIST = 1, qevercloud::↩ RecipientStatus::IN_MY_LIST = 2, qevercloud::RecipientStatus::IN_MY_LIST_AND_DEFAULT_NOTEBO↩ OK = 3 }
- enum qevercloud::CanMoveToContainerStatus { qevercloud::CanMoveToContainerStatus::CAN_BE_MOV↩ ED = 1, qevercloud::CanMoveToContainerStatus::INSUFFICIENT_ENTITY_PRIVILEGE = 2, qevercloud::↩ CanMoveToContainerStatus::INSUFFICIENT_CONTAINER_PRIVILEGE = 3 }
- enum qevercloud::RelatedContentType { qevercloud::RelatedContentType::NEWS_ARTICLE = 1, qevercloud↩ ::RelatedContentType::PROFILE_PERSON = 2, qevercloud::RelatedContentType::PROFILE_ORGANIZA↩ TION = 3, qevercloud::RelatedContentType::REFERENCE_MATERIAL = 4 }
- enum qevercloud::RelatedContentAccess { qevercloud::RelatedContentAccess::NOT_ACCESSIBLE = 0, qevercloud::RelatedContentAccess::DIRECT_LINK_ACCESS_OK = 1, qevercloud::RelatedContent↩ Access::DIRECT_LINK_LOGIN_REQUIRED = 2, qevercloud::RelatedContentAccess::DIRECT_LINK_EM↩ BEDDED_VIEW = 3 }
- enum qevercloud::UserIdentityType { qevercloud::UserIdentityType::EVERNOTE_USERID = 1, qevercloud↩ ::UserIdentityType::EMAIL = 2, qevercloud::UserIdentityType::IDENTITYID = 3 }

Functions

- uint qevercloud::qHash (EDAMErrorCode value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const EDAMError↩ Code value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const EDAMErrorCode value)
- uint qevercloud::qHash (EDAMInvalidContactReason value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const EDAM↩ InvalidContactReason value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const EDAMInvalidContact↩ Reason value)
- uint qevercloud::qHash (ShareRelationshipPrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Share↩ RelationshipPrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const ShareRelationship↩ PrivilegeLevel value)

- uint qevercloud::qHash (PrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const PrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const PrivilegeLevel value)
- uint qevercloud::qHash (ServiceLevel value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const ServiceLevel value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const ServiceLevel value)
- uint qevercloud::qHash (QueryFormat value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const QueryFormat value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const QueryFormat value)
- uint qevercloud::qHash (NoteSortOrder value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const NoteSort↩ Order value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const NoteSortOrder value)
- uint qevercloud::qHash (PremiumOrderStatus value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Premium↩ OrderStatus value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const PremiumOrderStatus value)
- uint qevercloud::qHash (SharedNotebookPrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Shared↩ NotebookPrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const SharedNotebook↩ PrivilegeLevel value)
- uint qevercloud::qHash (SharedNotePrivilegeLevel value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const SharedNote↩ PrivilegeLevel value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const SharedNotePrivilege↩ Level value)
- uint qevercloud::qHash (SponsoredGroupRole value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Sponsored↩ GroupRole value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const SponsoredGroupRole value)
- uint qevercloud::qHash (BusinessUserRole value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Business↩ UserRole value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const BusinessUserRole value)
- uint qevercloud::qHash (BusinessUserStatus value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Business↩ UserStatus value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const BusinessUserStatus value)
- uint qevercloud::qHash (SharedNotebookInstanceRestrictions value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Shared↩ NotebookInstanceRestrictions value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const SharedNotebook↩ InstanceRestrictions value)
- uint qevercloud::qHash (ReminderEmailConfig value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const Reminder↩ EmailConfig value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const ReminderEmailConfig value)

- uint qevercloud::qHash (BusinessInvitationStatus value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const BusinessInvitationStatus value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const BusinessInvitationStatus value)
- uint qevercloud::qHash (ContactType value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const ContactType value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const ContactType value)
- uint qevercloud::qHash (EntityType value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const EntityType value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const EntityType value)
- uint qevercloud::qHash (RecipientStatus value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const RecipientStatus value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const RecipientStatus value)
- uint qevercloud::qHash (CanMoveToContainerStatus value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const CanMoveToContainerStatus value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const CanMoveToContainerStatus value)
- uint qevercloud::qHash (RelatedContentType value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const RelatedContentType value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const RelatedContentType value)
- uint qevercloud::qHash (RelatedContentAccess value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const RelatedContentAccess value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const RelatedContentAccess value)
- uint qevercloud::qHash (UserIdentityType value)
- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const UserIdentityType value)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const UserIdentityType value)

8.5 EventLoopFinisher.h File Reference

```
#include "Export.h"
#include "Helpers.h"
#include <QEventLoop>
#include <QObject>
```

Classes

- class qevercloud::EventLoopFinisher

Namespaces

- qevercloud

8.6 EverCloudException.h File Reference

```
#include "Export.h"
#include "Helpers.h"
#include <QObject>
#include <QString>
#include <exception>
#include <memory>
```

Classes

- class qevercloud::EverCloudException
- class qevercloud::EverCloudExceptionData

  EverCloudException counterpart for asynchronous API.
- class qevercloud::EvernoteException
- class qevercloud::EvernoteExceptionData

Namespaces

- qevercloud

Typedefs

- using qevercloud::EverCloudExceptionDataPtr = std::shared_ptr< EverCloudExceptionData >

Variables

- class QEVERCLOUD_EXPORT qevercloud::EverCloudExceptionData

8.7 Exceptions.h File Reference

```
#include "EverCloudException.h"
#include "Export.h"
#include "Optional.h"
#include "generated/EDAMErrorCode.h"
#include "generated/Types.h"
#include <QNetworkReply>
#include <QObject>
#include <QString>
```

Classes

- class qevercloud::NetworkException

  The NetworkException class represents QNetworkReply level errors.
- class qevercloud::NetworkExceptionData
- class qevercloud::ThriftException
- class qevercloud::ThriftExceptionData
- class qevercloud::EDAMUserExceptionData
- class qevercloud::EDAMSystemExceptionData
- class qevercloud::EDAMNotFoundExceptionData
- class qevercloud::EDAMInvalidContactsExceptionData
- class qevercloud::EDAMSystemExceptionRateLimitReached
- class qevercloud::EDAMSystemExceptionRateLimitReachedData
- class qevercloud::EDAMSystemExceptionAuthExpired
- class qevercloud::EDAMSystemExceptionAuthExpiredData

Namespaces

- qevercloud

8.8 Export.h File Reference

```
#include <QtCore/QtGlobal>
```

Macros

- #define QEVERCLOUD_EXPORT Q_DECL_IMPORT

8.8.1 Macro Definition Documentation

8.8.1.1 QEVERCLOUD_EXPORT

```
#define QEVERCLOUD_EXPORT Q_DECL_IMPORT
```

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8.9 Globals.h File Reference

```
#include "Export.h"
#include <QNetworkProxy>
```

Namespaces

- qevercloud

Functions

- QEVERCLOUD_EXPORT QNetworkProxy qevercloud::evernoteNetworkProxy ()
- QEVERCLOUD_EXPORT void qevercloud::setEvernoteNetworkProxy (QNetworkProxy proxy)
- QEVERCLOUD_EXPORT void qevercloud::resetEvernoteNetworkProxy ()
- QEVERCLOUD_EXPORT int qevercloud::libraryVersion ()
- QEVERCLOUD_EXPORT void qevercloud::initializeQEverCloud ()

8.10 Helpers.h File Reference

```
#include <QtGlobal>
#include <QObject>
#include "VersionInfo.h"
```

Classes

- class qevercloud::QAssociativeContainerReferenceWrapper< Container >
- struct qevercloud::QAssociativeContainerReferenceWrapper< Container >::iterator
- class qevercloud::QAssociativeContainerConstReferenceWrapper< Container >
- struct qevercloud::QAssociativeContainerConstReferenceWrapper< Container >::iterator

Namespaces

- qevercloud

Functions

- template<class Container >
  QAssociativeContainerReferenceWrapper< Container > qevercloud::toRange (Container &container)
- template<class Container >
  QAssociativeContainerConstReferenceWrapper< Container > qevercloud::toRange (const Container &container)

8.11 InkNoteImageDownloader.h File Reference

```
#include "AsyncResult.h"
#include "Export.h"
#include "generated/Types.h"
#include <QByteArray>
#include <QString>
#include <QNetworkAccessManager>
```

Classes

- class qevercloud::InkNoteImageDownloader

  the InkNoteImageDownloader class is for downloading the images of ink notes which can be created with the official Evernote client on Windows (only with it, at least at the time of this writing).

Namespaces

- qevercloud

8.12 Log.h File Reference

```
#include "Export.h"
#include "Helpers.h"
#include <QDateTime>
#include <QDebug>
#include <QObject>
#include <QTextStream>
#include <memory>
```

Classes

- class qevercloud::ILogger

Namespaces

- qevercloud

Macros

- #define __QEVERCLOUD_LOG_BASE(component, level, message)
- #define QEC_TRACE(component, message) __QEVERCLOUD_LOG_BASE(component, LogLevel::Trace, message) \
- #define QEC_DEBUG(component, message) __QEVERCLOUD_LOG_BASE(component, LogLevel::Debug, message) \
- #define QEC_INFO(component, message) __QEVERCLOUD_LOG_BASE(component, LogLevel::Info, message) \
- #define QEC_WARNING(component, message) __QEVERCLOUD_LOG_BASE(component, LogLevel::↩ Warn, message) \
- #define QEC_ERROR(component, message) __QEVERCLOUD_LOG_BASE(component, LogLevel::Error, message) \

Typedefs

- using qevercloud::ILoggerPtr = std::shared_ptr< ILogger >

Enumerations

- enum qevercloud::LogLevel {
  qevercloud::LogLevel::Trace = 0, qevercloud::LogLevel::Debug, qevercloud::LogLevel::Info, qevercloud::↩
  LogLevel::Warn,
  qevercloud::LogLevel::Error }

Functions

- QEVERCLOUD_EXPORT QTextStream & qevercloud::operator<< (QTextStream &out, const LogLevel level)
- QEVERCLOUD_EXPORT QDebug & qevercloud::operator<< (QDebug &out, const LogLevel level)
- QEVERCLOUD_EXPORT ILoggerPtr qevercloud::logger ()
- QEVERCLOUD_EXPORT void qevercloud::setLogger (ILoggerPtr logger)
- QEVERCLOUD_EXPORT ILoggerPtr qevercloud::nullLogger ()
- QEVERCLOUD_EXPORT ILoggerPtr qevercloud::newStdErrLogger (LogLevel level=LogLevel::Warn)

8.12.1 Macro Definition Documentation

8.12.1.1 __QEVERCLOUD_LOG_BASE

```
#define __QEVERCLOUD_LOG_BASE(
                component,
                level,
                message )
```

Value:

```
{                                                                       \
        auto __qevercloudLogger = ::qevercloud::logger();                   \
        if (__qevercloudLogger->shouldLog(level, component))               \
        {                                                                   \
            QString msg;                                                    \
            QDebug dbg(&msg);                                               \
            dbg.nospace();                                                  \
            dbg.noquote();                                                  \
            dbg << message;                                                 \
            __qevercloudLogger->log(                                        \
                level,                                                      \
                component,                                                  \
                __FILE__,                                                   \
                __LINE__,                                                   \
                QDateTime::currentMSecsSinceEpoch(),                        \
                msg);                                                       \
        }                                                                   \
    }                                                                       \
```

8.12.1.2 QEC_DEBUG

```
#define QEC_DEBUG(
                component,
                message ) __QEVERCLOUD_LOG_BASE(component, LogLevel::Debug, message) \
```

8.12.1.3 QEC_ERROR

```
#define QEC_ERROR(
              component,
              message ) __QEVERCLOUD_LOG_BASE(component, LogLevel::Error, message) \
```

8.12.1.4 QEC_INFO

```
#define QEC_INFO(
              component,
              message ) __QEVERCLOUD_LOG_BASE(component, LogLevel::Info, message) \
```

8.12.1.5 QEC_TRACE

```
#define QEC_TRACE(
              component,
              message ) __QEVERCLOUD_LOG_BASE(component, LogLevel::Trace, message) \
```

8.12.1.6 QEC_WARNING

```
#define QEC_WARNING(
              component,
              message ) __QEVERCLOUD_LOG_BASE(component, LogLevel::Warn, message) \
```

8.13 OAuth.h File Reference

```
#include "Export.h"
#include "Helpers.h"
#include "Printable.h"
#include "generated/Types.h"
#include <QDialog>
#include <QList>
#include <QNetworkCookie>
#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.

8.14 Optional.h File Reference

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

Classes

- class qevercloud::Optional< T >

Namespaces

- qevercloud

8.15 Printable.h File Reference

```
#include "Export.h"
#include <QTextStream>
#include <QDebug>
```

Classes

- class qevercloud::Printable

Namespaces

- qevercloud

8.16 QEverCloud.h File Reference

```
#include "AsyncResult.h"
#include "DurableService.h"
#include "EventLoopFinisher.h"
#include "EverCloudException.h"
#include "Exceptions.h"
#include "Export.h"
#include "Globals.h"
#include "Helpers.h"
#include "InkNoteImageDownloader.h"
#include "Log.h"
#include "Optional.h"
#include "Printable.h"
#include "RequestContext.h"
#include "Thumbnail.h"
#include "VersionInfo.h"
#include "generated/EDAMErrorCode.h"
#include "generated/Constants.h"
#include "generated/Services.h"
#include "generated/Types.h"
```

8.17 QEverCloudOAuth.h File Reference

```
#include "OAuth.h"
#include "QEverCloud.h"
```

8.18 README.md File Reference

8.19 RequestContext.h File Reference

```
#include "Export.h"
#include <QDebug>
#include <QList>
#include <QNetworkCookie>
#include <QTextStream>
#include <QUuid>
#include <memory>
```

Classes

- class qevercloud::IRequestContext

Namespaces

- qevercloud

Typedefs

- using qevercloud::IRequestContextPtr = std::shared_ptr< IRequestContext >

Functions

- QEVERCLOUD_EXPORT IRequestContextPtr qevercloud::newRequestContext (QString authentication↩ Token={}, qint64 requestTimeout=DEFAULT_REQUEST_TIMEOUT_MSEC, bool increaseRequest↩ TimeoutExponentially=DEFAULT_REQUEST_TIMEOUT_EXPONENTIAL_INCREASE, qint64 max↩ RequestTimeout=DEFAULT_MAX_REQUEST_TIMEOUT_MSEC, quint32 maxRequestRetryCount=D↩ EFAULT_MAX_REQUEST_RETRY_COUNT, QList< QNetworkCookie > cookies={})

8.20 Servers.h File Reference

```
#include "../Export.h"
#include "../Optional.h"
#include "../RequestContext.h"
#include "Constants.h"
#include "Types.h"
#include <QObject>
#include <functional>
```

Classes

- class qevercloud::NoteStoreServer

  The NoteStoreServer class represents customizable server for NoteStore requests. It is primarily used for testing of QEverCloud.

- class qevercloud::UserStoreServer

  The UserStoreServer class represents customizable server for UserStore requests. It is primarily used for testing of QEverCloud.

Namespaces

- qevercloud

8.21 Services.h File Reference

```
#include "../Export.h"
#include "../AsyncResult.h"
#include "../DurableService.h"
#include "../Optional.h"
#include "../RequestContext.h"
#include "Constants.h"
#include "Types.h"
#include <QObject>
```

Classes

- class qevercloud::INoteStore
- class qevercloud::IUserStore

Namespaces

- qevercloud

Typedefs

- using qevercloud::INoteStorePtr = std::shared_ptr< INoteStore >
- using qevercloud::IUserStorePtr = std::shared_ptr< IUserStore >

Functions

- QEVERCLOUD_EXPORT INoteStore * qevercloud::newNoteStore (QString noteStoreUrl={}, IRequest↩ ContextPtr ctx={}, QObject *parent=nullptr, IRetryPolicyPtr retryPolicy={})
- QEVERCLOUD_EXPORT IUserStore * qevercloud::newUserStore (QString userStoreUrl={}, IRequest↩ ContextPtr ctx={}, QObject *parent=nullptr, IRetryPolicyPtr retryPolicy={})

8.22 Thumbnail.h File Reference

```
#include "AsyncResult.h"
#include "Export.h"
#include "generated/Types.h"
#include <QByteArray>
#include <QNetworkAccessManager>
#include <QString>
#include <utility>
```

Classes

- class qevercloud::Thumbnail

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

Namespaces

- qevercloud

8.23 Types.h File Reference

```
#include "../Export.h"
#include "../Optional.h"
#include "../Printable.h"
#include "EDAMErrorCode.h"
#include <QByteArray>
#include <QDateTime>
#include <QHash>
#include <QList>
#include <QMap>
#include <QMetaType>
#include <QSet>
#include <QStringList>
#include <QVariant>
```

Classes

- class qevercloud::EverCloudLocalData

  The EverCloudLocalData class contains several data elements which are not synchronized with Evernote service but which are nevertheless useful in applications using QEverCloud to implement feature rich full sync Evernote clients. Values of this class' types are contained within QEverCloud types corresponding to actual Evernote API types.
- struct qevercloud::SyncState
- struct qevercloud::SyncChunkFilter
- struct qevercloud::NoteFilter
- struct qevercloud::NotesMetadataResultSpec
- struct qevercloud::NoteCollectionCounts
- struct qevercloud::NoteResultSpec
- struct qevercloud::NoteVersionId
- struct qevercloud::RelatedQuery
- struct qevercloud::RelatedResultSpec
- struct qevercloud::ShareRelationshipRestrictions
- struct qevercloud::MemberShareRelationship
- struct qevercloud::NoteShareRelationshipRestrictions
- struct qevercloud::NoteMemberShareRelationship
- struct qevercloud::NoteInvitationShareRelationship
- struct qevercloud::NoteShareRelationships
- struct qevercloud::ManageNoteSharesParameters
- struct qevercloud::Data
- struct qevercloud::UserAttributes
- struct qevercloud::BusinessUserAttributes
- struct qevercloud::Accounting
- struct qevercloud::BusinessUserInfo
- struct qevercloud::AccountLimits
- struct qevercloud::User
- struct qevercloud::Contact
- struct qevercloud::Identity
- struct qevercloud::Tag
- struct qevercloud::LazyMap
- struct qevercloud::ResourceAttributes
- struct qevercloud::Resource
- struct qevercloud::NoteAttributes
- struct qevercloud::SharedNote

- struct qevercloud::NoteRestrictions
- struct qevercloud::NoteLimits
- struct qevercloud::Note
- struct qevercloud::Publishing
- struct qevercloud::BusinessNotebook
- struct qevercloud::SavedSearchScope
- struct qevercloud::SavedSearch
- struct qevercloud::SharedNotebookRecipientSettings
- struct qevercloud::NotebookRecipientSettings
- struct qevercloud::SharedNotebook
- struct qevercloud::CanMoveToContainerRestrictions
- struct qevercloud::NotebookRestrictions
- struct qevercloud::Notebook
- struct qevercloud::LinkedNotebook
- struct qevercloud::NotebookDescriptor
- struct qevercloud::UserProfile
- struct qevercloud::RelatedContentImage
- struct qevercloud::RelatedContent
- struct qevercloud::BusinessInvitation
- struct qevercloud::UserIdentity
- struct qevercloud::PublicUserInfo
- struct qevercloud::UserUrls
- struct qevercloud::AuthenticationResult
- struct qevercloud::BootstrapSettings
- struct qevercloud::BootstrapProfile
- struct qevercloud::BootstrapInfo
- class qevercloud::EDAMUserException
- class qevercloud::EDAMSystemException
- class qevercloud::EDAMNotFoundException
- class qevercloud::EDAMInvalidContactsException
- struct qevercloud::SyncChunk
- struct qevercloud::NoteList
- struct qevercloud::NoteMetadata
- struct qevercloud::NotesMetadataList
- struct qevercloud::NoteEmailParameters
- struct qevercloud::RelatedResult
- struct qevercloud::UpdateNoteIfUsnMatchesResult
- struct qevercloud::InvitationShareRelationship
- struct qevercloud::ShareRelationships
- struct qevercloud::ManageNotebookSharesParameters
- struct qevercloud::ManageNotebookSharesError
- struct qevercloud::ManageNotebookSharesResult
- struct qevercloud::SharedNoteTemplate
- struct qevercloud::NotebookShareTemplate
- struct qevercloud::CreateOrUpdateNotebookSharesResult
- struct qevercloud::ManageNoteSharesError
- struct qevercloud::ManageNoteSharesResult

Namespaces

- qevercloud

Typedefs

- using qevercloud::InvalidationSequenceNumber = qint64
- using qevercloud::IdentityID = qint64
- using qevercloud::UserID = qint32
- using qevercloud::Guid = QString
- using qevercloud::Timestamp = qint64
- using qevercloud::MessageEventID = qint64
- using qevercloud::MessageThreadID = qint64

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