

Share Transfer Module - tKey iOS SDK

The ShareTransferModule is a Swift module that provides functions for requesting, approving and transferring a share to another device.

To use the ShareTransferModule in your Swift project, you will need to import the module as follows:

import tkey_pkg ShareTransferModule is a class that provides the following methods:

Function Description Arguments Async return request_new_share request a new share threshold_key: ThresholdKey, user_agent: String, available_share_indexes: String Yes String add_custom_info_to_request Add custom info to share request threshold_key: ThresholdKey, enc_pub_key_x: String, custom_info: String Yes void look_for_request Returns an array of indexes of pending requests threshold_key: ThresholdKey Yes [String] approve_request approve the shareStore to be shared threshold_key: ThresholdKey, enc_pub_key_x: String, share_store: ShareStore Yes void approve_request_with_share_index approve sharing with share index threshold_key: ThresholdKey, enc_pub_key_x: String, share_index: String Yes void get_store Get share transfer store threshold_key: ThresholdKey Yes ShareTransferStore set_store Set share transfer store threshold_key: ThresholdKey, store: ShareTransferStore Yes Bool delete_store Delete share transfer store threshold_key: ThresholdKey, enc_pub_key_x: String Yes Bool get_current_encryption_key Get security questions stored in tKey threshold_key: ThresholdKey No String request_status_check start request status checking threshold_key: ThresholdKey, enc_pub_key_x: String, delete_request_on_completion: Bool Yes ShareStore cleanup_request cleanup the request threshold_key: ThresholdKey No Bool

request_new_share()

[â](#)

request_new_share(threshold_key: ThresholdKey, user_agent: String, available_share_indexes: String) async throws -> String

Request a new share for the given user.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. user_agent String A string representing the user's user agent. available_share_indexes String A string representing the available share indexes for the user. Returns

- String: A string representing the requested share.

add_custom_info_to_request()

[â](#)

add_custom_info_to_request(threshold_key: ThresholdKey, enc_pub_key_x: String, custom_info: String) async throws

Adds custom information to a share request.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. enc_pub_key_x String A string representing the user's encryption public key. custom_info String A string representing the custom information to add to the request.

look_for_request()

[â](#)

look_for_request(threshold_key: ThresholdKey) async throws -> [String]

Check the status of the user's share request.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. Returns

- [String]: An array of strings representing the status of the user's share request.

approve_request()

[^](#)

approve_request(threshold_key: ThresholdKey, enc_pub_key_x: String, share_store: ShareStore) async throws

Approves a share request for the user.

Parameters^{[^](#)}

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. enc_pub_key_x String A string representing the user's encryption public key. share_store ShareStore A ShareStore object representing the user's share store.

approve_request_with_share_index()

[^](#)

approve_request_with_share_index(threshold_key: ThresholdKey, enc_pub_key_x: String, share_index: String) async throws

Approves a share request for the user using a specific share index.

Parameters^{[^](#)}

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. enc_pub_key_x String A string representing the user's encryption public key. share_index String A string representing the specific share index to use for the share request.

get_store()

[^](#)

get_store(threshold_key: ThresholdKey) async throws -> ShareTransferStore

Get the user's share store.

Parameters^{[^](#)}

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. Returns

- ShareTransferStore: A ShareTransferStore object representing the user's share store.

set_store()

[^](#)

set_store(threshold_key: ThresholdKey, store: ShareTransferStore) async throws -> Bool

Set the user's share store.

Parameters^{[^](#)}

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. store ShareTransferStore A ShareTransferStore object representing the user's share store. Returns

- Bool: A boolean value indicating whether the operation was successful.

delete_store()

[^](#)

delete_store(threshold_key: ThresholdKey, enc_pub_key_x: String) async throws -> Bool

Delete the user's share store.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. enc_pub_key_x String A string representing the user's encryption public key. Returns

- Bool: A boolean value indicating whether the operation was successful.

get_current_encryption_key()

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get_current_encryption_key(threshold_key: ThresholdKey) throws -> String

This method is used to get the current encryption key for the given threshold_key.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. Returns

- String: A string value representing the current encryption key.

Throws

- ShareTransferError: If there is an issue with the underlying share transfer module.
- RuntimeError: If there is an issue with the runtime environment.

request_status_check()

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request_status_check(threshold_key: ThresholdKey, enc_pub_key_x: String, delete_request_on_completion: Bool) async throws -> ShareStore

This method is used to check the status of a request for the specified enc_pub_key_x under the given threshold_key.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. enc_pub_key_x String A string representing the user's encryption public key. delete_request_on_completion Bool A boolean value indicating whether the request should be deleted upon completion. Returns

- ShareStore: A ShareStore object representing the current status of the request.

Throws

- ShareTransferError: If there is an issue with the underlying share transfer module.
- RuntimeError: If there is an issue with the runtime environment.

cleanup_request()

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cleanup_request(threshold_key: ThresholdKey) throws

This method is used to clean up any remaining requests for the specified threshold_key.

Parameters^â

Parameters Type Description threshold_key ThresholdKey A ThresholdKey object representing the user's threshold key. Returns

- Void

Throws

- ShareTransferError: If there is an issue with the underlying share transfer module.
- RuntimeError: If there is an issue with the runtime environment.[Edit this page](#) [Previous Share Serialization Next Overview](#)

