

# 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<sup>â</sup>

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<sup>â</sup>

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<sup>â</sup>

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()

[â](#)

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()

[â](#)

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()

[â](#)

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()

[â](#)

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()

[â](#)

delete\_store(threshold\_key: ThresholdKey, enc\_pub\_key\_x: String ) async throws -> Bool

Delete the user's share store.

## Parameters<sup>â</sup>

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()

<sup>â</sup>

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<sup>â</sup>

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()

<sup>â</sup>

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<sup>â</sup>

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()

<sup>â</sup>

cleanup\_request(threshold\_key: ThresholdKey) throws

This method is used to clean up any remaining requests for the specified threshold\_key.

## Parameters<sup>â</sup>

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](#)  
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