Share Transfer Module

The SharetransferModule is an Android module that provides functions for requesting, approving and transfering a share to another device.

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

import

com . web3auth . tkey . ThresholdKey . ThresholdKey ; import

com . web3auth . tkey . ThresholdKey . Modules . SharetransferModule ; SharetransferModule is a class that provides the following methods:

Function Description Arguments Async return requestNewShare request a new share thresholdKey: ThresholdKey, userAgent: String, availableShareIndexes: String Yes String addCustomInfoToRequest Add custom info to share request thresholdKey: ThresholdKey, encPubKeyX: String, customInfo: String Yes void lookForRequest Returns an array of indexes of pending requests thresholdKey: ThresholdKey Yes [String] approveRequest approve the shareStore to be shared thresholdKey: ThresholdKey, encPubKeyX: String, store: ShareStore Yes void approveRequestWithShareIndex approve sharing with share index thresholdKey: ThresholdKey, encPubKeyX: String, shareIndex: String Yes void getStore Get share transfer store thresholdKey: ThresholdKey Yes ShareTransferStore setStore Set share transfer store thresholdKey: ThresholdKey, store: ShareTransferStore Yes Bool deleteStore Delete share transfer store thresholdKey: ThresholdKey, encPubKeyX: String Yes Bool getCurrentEncryptionKey Get security questions stored in tKey thresholdKey: ThresholdKey No String requestStatusCheck start request status checking thresholdKey: ThresholdKey, encPubKeyX: String, deleteRequestOnCompletion: Bool Yes ShareStore cleanupRequest cleanup the request thresholdKey: ThresholdKey No Bool

requestNewShare()

[â](#)

public static void requestNewShare(ThresholdKey thresholdKey, String userAgent, String availableShareIndexes, ThresholdKeyCallback callback)

Request a new share for the given user.

Parameters[â](#)

Parameters Type Description thresholdKey ThresholdKey A ThresholdKey object representing the user's threshold key. userAgent String A string representing the user's user agent. availableShareIndexes String A string representing the available share indexes for the user. Returns

- String: A string representing the requested share.

addCustomInfoToRequest()

[â](#)

public static void addCustomInfoToRequest(ThresholdKey thresholdKey, String encPubKeyX, String customInfo, ThresholdKeyCallback callback)

Adds custom information to a share request.

Parameters[â](#)

Parameters Type Description thresholdKey ThresholdKey A ThresholdKey object representing the user's threshold key. encPubKeyX String A string representing the user's encryption public key. customInfo String A string representing the custom information to add to the request.

lookForRequest()

[â](#)

public static void lookForRequest(ThresholdKey thresholdKey, ThresholdKeyCallback> callback)

Check the status of the user's share request.

Parameters[â](#)

Parameters Type Description thresholdKey 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.

approveRequest()

[â](#)

public static void approveRequest(ThresholdKey thresholdKey, String encPubKeyX, @Nullable ShareStore store, ThresholdKeyCallback callback)

Approves a share request for the user.

Parameters[â](#)

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

approveRequestWithShareIndex()

[â](#)

public static void approveRequestWithShareIndex(ThresholdKey thresholdKey, String encPubKeyX, String shareIndex, ThresholdKeyCallback callback)

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

Parameters[â](#)

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

getStore()

[â](#)

public static void getStore(ThresholdKey thresholdKey, ThresholdKeyCallback callback)

Get the user's share store.

Parameters[â](#)

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

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

setStore()

[â](#)

public static void setStore(ThresholdKey thresholdKey, ShareTransferStore store, ThresholdKeyCallback callback)

Set the user's share store.

Parameters[â](#)

Parameters Type Description thresholdKey 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.

deleteStore()

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public static void deleteStore(ThresholdKey thresholdKey, String encPubKeyX, ThresholdKeyCallback callback)

Delete the user's share store.

Parametersâ

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

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

getCurrentEncryptionKey()

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public static String getCurrentEncryptionKey(ThresholdKey thresholdKey) throws RuntimeError

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

Parametersâ

Parameters Type Description thresholdKey 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.

requestStatusCheck()

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public static void requestStatusCheck(ThresholdKey thresholdKey, String encPubKeyX, Boolean deleteRequestOnCompletion, ThresholdKeyCallback callback)

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

Parametersâ

Parameters Type Description thresholdKey ThresholdKey A ThresholdKey object representing the user's threshold key. encPubKeyX String A string representing the user's encryption public key. deleteRequestOnCompletion 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.

cleanupRequest()

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public static void cleanupRequest(ThresholdKey thresholdKey) throws RuntimeError

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

Parametersâ

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

Returns

- Void

Throws

- RuntimeError: If there is an issue with the runtime environment.