

Share Transfer Module

The SharetransferModule is an Android module that provides functions for requesting, approving and transferring 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 |
| addCustomInfoToRequest | Add custom info to share request | thresholdKey: ThresholdKey, encPubKeyX: String, customInfo: String | Yes |
| lookForRequest | Returns an array of indexes of pending requests | thresholdKey: ThresholdKey | Yes |
| approveRequest | approve the shareStore to be shared | thresholdKey: ThresholdKey, encPubKeyX: String, store: ShareStore | Yes |
| approveRequestWithShareIndex | approve sharing with share index | thresholdKey: ThresholdKey, encPubKeyX: String, shareIndex: String | Yes |
| getStore | Get share transfer store | thresholdKey: ThresholdKey | Yes |
| ShareTransferStore | setStore Set share transfer store | thresholdKey: ThresholdKey, store: ShareTransferStore | Yes |
| deleteStore | Delete share transfer store | thresholdKey: ThresholdKey, encPubKeyX: String | Yes |
| getCurrentEncryptionKey | Get security questions stored in tKey | thresholdKey: ThresholdKey | No |
| requestStatusCheck | start request status checking | thresholdKey: ThresholdKey, encPubKeyX: String | No |
| deleteRequestOnCompletion | cleanupRequest cleanup the request | thresholdKey: ThresholdKey | No |

requestNewShare()

[^](#)

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

Request a new share for the given user.

Parameters^{[^](#)}

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()

[^](#)

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

Adds custom information to a share request.

Parameters^{[^](#)}

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()

[^](#)

```
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()

[â](#)

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

Delete the user's share store.

Parameters

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()

[â](#)

```
public static String getCurrentEncryptionKey(ThresholdKey thresholdKey) throws RuntimeException
```

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

Parameters

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

requestStatusCheck()

[â](#)

```
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.

Parameters

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

cleanupRequest()

[â](#)

```
public static void cleanupRequest(ThresholdKey thresholdKey) throws RuntimeException
```

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

Parameters

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.[Edit this page](#) [Previous](#) [Share](#) [Serialization Module](#) [Next](#) [SafeAuth](#)