

# Share Transfer Module - tKey JS SDK

[@tkey/share-transfer](#)

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The Share Transfer Module helps you transfer a share to another device/ storage.

## Installationâ

- npm
- Yarn
- pnpm

npm install --save @tkey/share-transfer yarn add @tkey/share-transfer pnpm add @tkey/share-transfer

## Initializationâ

```
import
{
  ShareTransferModule
}
from
"@tkey/share-transfer" ; const shareTransferModule =
new
ShareTransferModule ( ) ;
```

## Usageâ

With theShareTransferModule , you have access to the multiple functions as mentioned in the type reference, however, the most important ones are:

### Request a New Share from a Deviceâ

requestNewShare ( userAgent :

string , availableShareIndexes :

Array < string

, callback ? :

( err ? :

ITkeyError , shareStore ? :

ShareStore )

=>

void ) :

Promise < string

; \* userAgent \* : The user agent of the client that is requesting a new share. \* availableShareIndexes \* : An array of share indexes that are available for the client. \* callback \* : A callback function that is called when the request is complete.

### Returnâ

- Promise

- : Share index of the new share.

### Example

```
const result_requestNewShare =
await ( tKey . modules . shareTransfer
as
ShareTransferModule ) . requestNewShare ( navigator . userAgent , tKey . getCurrentShareIndexes ( ) ) ;
```

### Look for Requests from Another Device

```
lookForRequests(): Promise< >;
```

### Return

- Promise< >
- : An array of indexes of pending requests

### Example

```
const requests =
await
( tKey . modules . shareTransfer
ShareTransferModule ) . lookForRequests ( ) ;
```

### Approve request from Another Device

```
approveRequest(encPubKeyX: string, shareStore?: ShareStore): Promise< >;
```

- encPubKeyX
- : The public key of the share that is being approved.
- shareStore
- : The share store that is being approved.

### Example

```
const requests =
await ( tKey . modules . shareTransfer
as
ShareTransferModule ) . lookForRequests ( ) ; let shareToShare ; try
{ shareToShare =
await ( tKey . modules . webStorage
as
WebStorageModule ) . getDeviceShare ( ) ; }
catch
( err )
{ console . error ( "No on device share found. Generating a new share" ) ; const newShare =
await tKey . generateNewShare ( ) ; shareToShare = newShare . newShareStores [ newShare . newShareIndex . toString (
"hex" ) ] ; } await ( tKey . modules . shareTransfer
as
ShareTransferModule ) . approveRequest ( requests [ 0 ] , shareToShare ) ;
```

# Type Reference<sup>â</sup>

## ShareTransferModule

<sup>â</sup>

declare

class

ShareTransferModule

implements

IModule

{ moduleName :

string ; tbSDK :

ITKeyApi ; currentEncKey :

BN ; requestStatusCheckId :

number ; requestStatusCheckInterval :

number ; constructor ( ) ; static

refreshShareTransferMiddleware ( generalStore :

unknown , oldShareStores :

ShareStoreMap , newShareStores :

ShareStoreMap ) :

ShareTransferStorePointer ; setModuleReferences ( tbSDK :

ITKeyApi ) :

void ; setRequestStatusCheckInterval ( interval :

number ) :

void ; initialize ( ) :

Promise < void

    ; requestNewShare ( userAgent :

string , availableShareIndexes :

Array < string

    , callback ? :

( err ? :

ITkeyError , shareStore ? :

ShareStore )

=>

void ) :

Promise < string

    ; addCustomInfoToShareRequest ( encPubKeyX :

string , customInfo :

string ) :

```

Promise < void
    ; lookForRequests ( ) :

Promise < Array < string
    ; approveRequest ( encPubKeyX :
string , shareStore ? :
ShareStore ) :

Promise < void
    ; approveRequestWithShareIndex ( encPubKeyX :
string , shareIndex :
string ) :

Promise < void
    ; getShareTransferStore ( ) :

Promise < ShareTransferStore
    ; setShareTransferStore ( shareTransferStore :
ShareTransferStore ) :

Promise < void
    ; startRequestStatusCheck ( encPubKeyX :
string , deleteRequestAfterCompletion :
boolean ) :

Promise < ShareStore
    ; cancelRequestStatusCheck ( ) :

Promise < void
    ; deleteShareTransferStore ( encPubKey :
string ) :

Promise < void
    ; resetShareTransferStore ( ) :

Promise < void
    ; private _cleanUpCurrentRequest ; }

```

## ShareStore

[â](#)

class

ShareStore

implements

ISerializable

{ share :

Share ; polynomialID :

PolynomialID ; constructor ( share :

Share , polynomialID :

PolynomialID ) ; static

fromJSON ( value :

StringifiedType ) :

ShareStore ; toJSON ( ) :

StringifiedType ; } interface

ISerializable

{ toJSON ( ) :

StringifiedType ; } [Edit this page](#) [Previous Security Questions](#) [Next Share Serialization](#)