

Share Serialization Module - tKey JS SDK

[@tkey/share-serialization](#)

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The Share Serialization Module helps you import/ export a share from tKey .

Installationâ

- npm
- Yarn
- pnpm

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

Initializationâ

```
import
{
  ShareSerializationModule
}
from
"@tkey/share-serialization" ; const shareSerializationModule =
new
ShareSerializationModule ( ) ;
```

Usageâ

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

Serialize a Shareâ

serialize(share: BN, type: string): Promise;

Returnâ

- Promise
- : The serialized share.

Exampleâ

```
const generateShareResult =
await tKeyInstance . generateNewShare ( ) ; const share =
await tKeyInstance . outputShareStore ( generateShareResult . newShareIndex ) . share . share ; const mnemonic =
await ( tKeyInstance . modules . shareSerialization
as
ShareSerializationModule ) . serialize ( share ,
"mnemonic" ) ;
```

Deserialize a Shareâ

deserialize(serializedShare: unknown, type: string): Promise;

Return^â

- Promise
- : The deserialized share.

Example^â

```
const share =  
await ( tKeyInstance . modules . shareSerialization  
as  
ShareSerializationModule ) . deserialize ( mnemonic ,  
"mnemonic" ) ; await tKeyInstance . inputShare ( share ) ;
```

Type Reference^â

ShareSerializationModule

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```
declare  
class  
ShareSerializationModule  
implements  
IModule  
{ moduleName :  
string ; tbSDK :  
ITKeyApi ; constructor ( ) ; static  
serializeMnemonic ( share :  
BN ) :  
string ; static  
deserializeMnemonic ( share :  
string ) :  
BN ; setModuleReferences ( tbSDK :  
ITKeyApi ) :  
void ; initialize ( ) :  
Promise < void  
; serialize ( share :  
BN , type :  
string ) :  
Promise < unknown  
; deserialize ( serializedShare :  
unknown , type :  
string ) :  
Promise < BN
```

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