

# Share Serialization Module

The ShareSerializationModule is an Android module that provides functionality for serializing and deserializing threshold key shares.

To use the ShareSerializationModule 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 . ShareSerializationModule ; ShareSerializationModule is a class that provides the following methods:
```

Function	Description	Arguments	Async	return
serializeShare	Serialize share	thresholdKey: ThresholdKey, share: String, format: String?	No	String
deserializeShare	Deserialize share	thresholdKey: ThresholdKey, share: String, format: String?	No	String

## serializeShare()

[^](#)

```
public static String serializeShare(ThresholdKey thresholdKey, String share, @Nullable String format) throws RuntimeException
```

This method serializes a threshold key share and returns it as a string.

### Parameters<sup>[^](#)</sup>

Parameters	Type	Description
thresholdKey	ThresholdKey	A ThresholdKey object that represents the threshold key to which the share belongs.
share	String	A string that represents the share to be serialized.
format	String?	An optional string that represents the serialization format. If it is not specified, the default format will be used.

- A string that represents the serialized share.

Throws

- RuntimeException: If the serialization operation fails, a RuntimeException will be thrown.

## deserializeShare()

[^](#)

```
deserializeShare(thresholdKey: ThresholdKey, share: String, format: String?) throws -> String
```

This method deserializes a threshold key share and returns it as a string.

### Parameters<sup>[^](#)</sup>

Parameters	Type	Description
thresholdKey	ThresholdKey	A ThresholdKey object that represents the threshold key to which the share belongs.
share	String	A string that represents the share to be deserialized.
format	String?	An optional string that represents the serialization format. If it is not specified, the default format will be used.

- A string that represents the deserialized share.

Throws

- RuntimeException: If the deserialization operation fails, a RuntimeException will be thrown.[Edit this page](#) [Previous](#) [Seed Phrase Module](#) [Next](#) [Share Transfer Module](#)