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bitcoinjs-message TS

2.2.0 • **Public** • Published 3 years ago

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bitcoinjs-message

npm **v2.2.0** build no longer available  [Dependency status](#)

JS Standard
Code Style

Examples (Note about Electrum support at the bottom)

```
var bitcoin = require('bitcoinjs-lib') // v4.x.x
var bitcoinMessage = require('bitcoinjs-message')
```

```
sign(message, privateKey, compressed[, network.messagePrefix, sigOptions])
```

- If you pass the sigOptions arg instead of messagePrefix it will dynamically replace.

- sigOptions contains two attributes
 - segwitType should be one of 'p2sh(p2wpkh)' or 'p2wpkh'
 - extraEntropy will be used to create non-deterministic signatures using the RFC6979 extra entropy parameter. R value reuse is not an issue.

Sign a Bitcoin message

```
var keyPair = bitcoin.ECPair.fromWIF('L4rK1yDtCWekvXue6oXD9jCYff')
var privateKey = keyPair.privateKey
var message = 'This is an example of a signed message.'

var signature = bitcoinMessage.sign(message, privateKey, keyPair)
console.log(signature.toString('base64'))
// => 'H9L5yLFjti0QTHhPyFrZCT1V/MMnBtXKmoiKDZ78NDBjERki6ZTQZdSMC'
```

To produce non-deterministic signatures you can pass an extra option to sign()

```
var { randomBytes } = require('crypto')
var keyPair = bitcoin.ECPair.fromWIF('L4rK1yDtCWekvXue6oXD9jCYff')
var privateKey = keyPair.privateKey
var message = 'This is an example of a signed message.'

var signature = bitcoinMessage.sign(message, privateKey, keyPair, {
  randomBytes: randomBytes(32)
})
console.log(signature.toString('base64'))
// => different (but valid) signature each time
```

Sign a Bitcoin message (with segwit addresses)

```
// P2SH(P2WPKH) address 'p2sh(p2wpkh)'
var signature = bitcoinMessage.sign(message, privateKey, keyPair, {
  segwitType: 'p2sh(p2wpkh)'
})
console.log(signature.toString('base64'))
// => 'I9L5yLFjti0QTHhPyFrZCT1V/MMnBtXKmoiKDZ78NDBjERki6ZTQZdSMC'
```

```
// P2WPKH address 'p2wpkh'  
var signature = bitcoinMessage.sign(message, privateKey, keyPair  
console.log(signature.toString('base64'))  
// => 'J9L5yLFjti0QTHhPyFrZCT1V/MMnBtXKmoiKDZ78NDBjERki6ZTQZdSMC
```

```
verify(message, address, signature[, network.messagePrefix, checkSegwitAlways])
```

Verify a Bitcoin message

```
var address = '1F3sAm6ZtwLAUnj7d38pGFxtP3RVEvtsbV'  
  
console.log(bitcoinMessage.verify(message, address, signature))  
// => true
```

About Electrum segwit signature support

- For Signing: Use the non-segwit compressed signing parameters for both segwit types (p2sh-p2wpkh and p2wpkh)
- For Verifying: Pass the checkSegwitAlways argument as true. (messagePrefix should be set to null to default to Bitcoin messagePrefix)

LICENSE MIT

Keywords

bitcoinjs-message **bitcoin**

Install

```
> npm i bitcoinjs-message
```

Repository

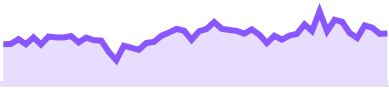
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Homepage

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2.2.0

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