



Certificate of Blockchain Proof

lightpaper.pdf

Michael Harrison (google user: mike@southbanksoftware.com)

This certificate constitutes proof that a document has been anchored to the bitcoin blockchain, thereby proving that the document existed in its current form on the date at which the blockchain entry was created.

You can use this proof to attest that:

- (a) the document has not been altered in any way.
- (b) the document existed in its current form on the specified date.



An online version of this proof can be found at:

<https://provendocs.com/proof/5c36b92b2a9cc836f9a50f1e>

The document was uploaded by Michael Harrison (google user: mike@southbanksoftware.com) at 2019-01-10T03:16:59.152Z

Details of the document being proved

The document name when hashed was "lightpaper.pdf"

You can view a copy of this document at: <https://provendocs.com/document/5c36b92b2a9cc836f9a50f1e> (permissions may be required to view the document)

The cryptographic hash of the document is:
[412bed9f5c9f086767617f56f8d7cdf269aac4cb8fbae569874b77495284575f](#)

See Schedule 1 for details of the hashing algorithm employed.

Blockchain proof details

The document hash was included within the [Chainpoint](#) proof at <https://a.chainpoint.org/calendar/2517935/data>

See Schedule 2 for a detailed cryptographic proof.

The Chainpoint proof was anchored to the bitcoin blockchain at block [557871](#) in bitcoin transaction [668be3bd8b9129f7ea520896cfb584f2d8d5fb79dade2aa429d1db4bd2763c14](#) at UTC: at UTC: Thu Jan 10 2019 14:16:59 GMT+1100 (Australian Eastern Daylight Time)

Summary

The document [lightpaper.pdf](#) with hash value [412bed9f5c9f086767617f56f8d7cdf269aac4cb8fbae569874b77495284575f](#) was anchored to the bitcoin blockchain by Michael Harrison (google user: mike@southbanksoftware.com) at UTC: [2019-01-10T03:16:59.152Z](#). Providing that the document continues to hash to that value, you can be certain that the document existed in its current form on or before that date.

Schedule 1: Document hashing

The document hash of [412bed9f5c9f086767617f56f8d7cdf269aac4cb8fbae569874b77495284575f](#) was obtained by performing a [SHA-2 256 bit](#) hash on the document at <https://provendocs.com/documents/5c36b92b2a9cc836f9a50f1e> (permission may be required to view this document). The hash was calculated on the document and its metadata as stored in the ProvenDocs system.

You can download a copy of the document and its metadata (permissions required) at <https://provendocs.com/documents/5c36b92b2a9cc836f9a50f1e/download>. You can independently validate the hash by using the open source hash validation tool at <https://provendocs.com/downloads/validateHash>. You can also extract the document from its metadata using this tool.

Schedule 2: Chainpoint proof

Chainpoint is an open standard for linking data to the public blockchain. It aggregates multiple hash values into a single hash value which is then placed on the blockchain. The following chainpoint proof proves that the hash value of [412bed9f5c9f086767617f56f8d7cdf269aac4cb8fbae569874b77495284575f](#) is associated with the chainpoint proof placed on the bitcoin blockchain in transaction [668be3bd8b9129f7ea520896cfb584f2d8d5fb79dade2aa429d1db4bd2763c14](#)

This proof can be downloaded from <https://provendocs.com/proofs/undefined>

Below is a binary representation of the chainproof

```
eJyUlz2P30ISx+G9EKGbVV1PXRNZImEgJDokIE9NbY0eCx7Do5wuYR0CQIRjlvY44SQkBAh780IF4N+tte36zGC6/Df//786rm//  
Tf/8SLevrh7+7P885ePj9N39fBm7uLx3wnQbwBvEP4U1i3aLcBPf51v4lW9mLd/+9f/eB859//6uvOuH+ruw8avHl6//  
buvf3n/7nIT7UmpahsK7J50nhhe06x706melu2zs0colFXaeKS4Aurfr3h4/d3bF3FDol//8s275zlJvXwdhZEU4FiZyxPIXeXTRzpxYykHkmgmtg/  
u3sl9mfFj4P27570FjsOshU1CTq3ua8xPe08SX0axCcx0B056o2Y0H9qEO  
+CHWF9cgv/9hf3Jq4eeu5d9u5C06IEb5K03i0M3ybluANeGs8tQn9j0k/exf3+40n982GnhDeCUp8K19yRCeKLB6NAq1ug9grJz  
+eqUsHZeMwCFImufKsPogmA5Qcub5AlwdBeUULPlQe5jvnFTDlj7QGa1oR4ZtAHSdtzrQB3rFSrUT4Ari6PV  
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enjzZ7cV97cft3wIWB0xWSztMvBh8BW4be8Whj1KjHTWdhcEa5o6pbjYNB1c/iNZrvvq/+HN229+8e3P3rx8+827r/43055V3M  
+rjffPPhrz7OrAbx//6vX8quL+nz+A7I72dx/3P3XdNx+77t/yse4+/u23jffv/eH790C39G7DFoP20np9thcKwUWMR4gY8vEp04tC027yQz0iuBTzrFe  
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UOkd1DMmGd/Oke87ZmuPOi3K7FW9xpRP7fFxA8Nki0iC40vMnJ2ev9SmkgG4ajuWHD8PaWyxnudhXSYf0igLggJuQd876vuzV6p+8zFVNz  
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+Tcy9zQ3ZPYItN0+gZGmQph9UL00bPowQZzhpYDujYkdnq30pnhknsSoEvfB6x5LjKkYzak1pNDJZ4WMe4ADIESZR3iVW3/  
R9wnkXp62pT0ncAUbEyxcYH5wu+WRbBZmTPlpJu0BcpzT9CU7ZQ1tmYFA7NOHi9fxTtrbaHUca3ACWoizr7JaqdLcypywqVn3JtmHMPPrNPURr  
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+x1ri18/r4dXj/Pzxp7/n/eV62R84n7DP/mK9t+c3f/Tpp28vGfPuOSPltB8pP7DV1BTtksK7rfpc6jyKK/  
fJGFHfxmnlGLrT5uhv/5f175GXfXuR63R/8f3T050+Y9xr86RNGb8V/+gl/ae0L/38r7f8JAAD//+NKIhl=
```

Schedule 3: List of printable links in the document

Document being proven:

<https://provendocs.com/document/5c36b92b2a9cc836f9a50f1e>

Chainpoint.org:

<https://chainpoint.org>

Chainpoint proof for the document:

<https://provendocs/proofs/5c36b92b2a9cc836f9a50f1e>

Chainpoint calendar entry for the proven document:

<https://a.chainpoint.org/calendar/2517935/data>

Bitcoin block containing the proof:

<https://live.blockcypher.com/btc/block/557871>

Blockchain transaction:

<https://live.blockcypher.com/btc/tx/668be3bd8b9129f7ea520896cfb584f2d8d5fb79dade2aa429d1db4bd2763c14>

Open source validation tool:

<http://provendocs.com/downloads/validateHash>

