



Certificate of Blockchain Proof

HH_Web-3-Privacy-Architecture_20211111.pdf

Hedera Hashgraph (email user: docusign@hedera.com)

This certificate constitutes proof that a document has been anchored to a Blockchain using the Hedera Hashgraph Protocol on [Thu, 11 Nov 2021 02:24:01 GMT](#) 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://app.provendb.com/cv/1ede7-618c738b10d61a82d00db4b0-ufqyx3mjgvp3baul14ck7jsy-197901/cv2>



Details of the document being proved

The document was uploaded by Hedera Hashgraph (email user: docusign@hedera.com) at *Thu, 11 Nov 2021 01:36:11 GMT*

The document name when hashed was "HH_Web-3-Privacy-Architecture_20211111.pdf"

You can view a copy of this document [here](#)
(permissions may be required to view the document)

The cryptographic hash of the document is:
fb77e866deb81b6c6a89bdc68189d1b3104cd8bf95f45fd11c7e8b8fde92866f

See *Schedule 1* for details of the hashing algorithm employed.

Blockchain proof details

The document hash was included within the [Hedera Hashgraph](#) proof at
<https://app.dragonglass.me/hedera/search?q=ab87ebad480a3ec9c2cc55b4804a3c58a102619e8a3a449ede0a1c00f77c8a716716f717e0c23b9411284e2f4d86cc39>

See *Schedule 2* for a detailed cryptographic proof.

The Hedera Hashgraph proof was anchored to the Blockchain in transaction
[ab87ebad480a3ec9c2cc55b4804a3c58a102619e8a3a449ede0a1c00f77c8a716716f717e0c23b9411284e2f4d86cc39](#) at: *Thu, 11 Nov 2021 02:24:01 GMT*

Summary

The document *HH_Web-3-Privacy-Architecture_20211111.pdf* with hash value *fb77e866deb81b6c6a89bdc68189d1b3104cd8bf95f45fd11c7e8b8fde92866f* was anchored to the Hedera Hashgraph Blockchain by Hedera Hashgraph (email user: docusign@hedera.com) at: *Thu, 11 Nov 2021 02:24:01 GMT*. 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 `fb77e866deb81b6c6a89bdc68189d1b3104cd8bf95f45fd11c7e8b8fde92866f` was obtained by performing a [SHA-2 256 bit](#) hash on the document [here](#) (permission may be required to view this document).

The hash was calculated on the document and its metadata as stored in the ProvenDB system.

You can download a copy of the document and its metadata (permissions required) [here](#). You can independently validate the document proof by using the open source validation tool at <https://app.provencdb.com/homepage/downloads>.

Schedule 2: Hedera Hashgraph proof

The Hedera Hashgraph proof uses a Trie structure 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 Hedera Hashgraph proof proves that the hash value of

`fb77e866deb81b6c6a89bdc68189d1b3104cd8bf95f45fd11c7e8b8fde92866f`

is associated with the root hash placed on the Hedera Hashgraph Blockchain in transaction

<https://app.dragonglass.me/hedera/search?q=ab87ebad480a3ec9c2cc55b4804a3c58a102619e8a3a449ede0a1c00f77c8a716716f717e0c23b9411284e2f4d86cc39>

This proof can be downloaded (permissions required) [here](#)

Below is a binary representation of the Blockchain proof

```
eJy0kz+OHMQSxt8h3gFe8NL1dIVXVvc7svSu8CKSpf4109J6ZzUzNjg0JKS2xAHARjYIESFC7rEsh0Gzayxblxkpl669f3qq6/1ff360vaXt4+Wj1EqkuU
KLiGm0zNEQWeCd2gUqb4mL+KVADFKXVfWRBVZPx0xF5u8uN5m3f43rWEPjrPQyWcANc+s4zpDQytMjyj69U6yf+KPN4dD3Ssv7PALNoQzOJ7/
N3yl9LDBJ+/xsd39TfxR+Vf4t76z67is/csvv78yr6ufb9lvchsX9w+vtjf73//17+ffXt0+8t4UezJXd+yrAUGLoTWJZ7ZkXNjXlNteqJpODE1EoGMpytD1/
LvtzZv9pZ0hyx2Qyjh8AoxmMAASUKp6HzmkNa4eUQk2bZg25hSkB0msyE0g5ARYTbHWjIXksxowopSolTq2qBslzEErWiNtEWWhaSxYqS805+jgBup
B0DHzrjSULgqKWK0QUOKMRVHO3chpNuhkfcloYtnfkxcHcHbGthd++ZvpK9PJtoI+A0xqu8uepMi
+U0rSa0EZ15MciE0wxbRzBS7WWB2pKSSmstn4sRQKaugk6kPIUkppBw1WTjQFoiJw7D+woA8sWZ7DBkDdShwmHLFwjRZA6ajJX0iD27M2lbrQs
uPHE4SPtg8CbY08dcRtVqBiWSU5CqTBoYx5+KLB1sIGhQhpxpdQJEDunZ53JxAaFG6R7Tj02mSbJKe44E9Fa
+uJjCGwMDKE5fdLlyMRn3Qb1h5+VF4jrNtYUmixVRZU9BmNHTYsoiaYWMc4rJig+B72p0+59jyy4ra2cXj21zfv2Hi2OhtrsPmvXN3fjOAVO0RmsLJAa
5+XTKZIR0T2sTRKgodZIDIY0ZLVlkd07QTW0yRPUm44b5ml11FIRFgAs0U0IF4NArC9BriWQbE7ymArvMj4Bv7l3vX3z1+vDspl6FXf3wbpFN3n5qrq
PckrRZr5iBEcx02sh6sBo0FJil1o1o1VIYziNbWGKE2QAbIGjCqBXafBIBKhYtSJaLP1092m/2L25eXh8PN/
uH5+f3oBze77XaZX9WDzfb8ae0269n5x2mf/9PO3j6K7fWhvj89qe3z/smH2x3n53HpW2ub7ab68P5034X24//e3/1RwAAAP//78ETPg==
```

Schedule 3: List of printable links in the document

Document being proven:

<https://app.provencdb.com/cv/1ede7-618c738b10d61a82d00db4b0-ufqyx3mjgvp3baul14ck7jsy-197901/cv2>

Hedera Hashgraph

<https://www.hedera.com/>

Blockchain transaction:

[ab87ebad480a3ec9c2cc55b4804a3c58a102619e8a3a449ede0a1c00f77c8a716716f717e0c23b9411284e2f4d86cc39](https://www.hedera.com/blockchain/transaction/ab87ebad480a3ec9c2cc55b4804a3c58a102619e8a3a449ede0a1c00f77c8a716716f717e0c23b9411284e2f4d86cc39)

Open source validation tool:

<https://app.provencdb.com/homepage/downloads>