



Hedera™ Hashgraph

Certificate of Blockchain Proof

Powered by **Proven**^{DB}

hh_tokenization-whitepaper_v2_20210101.pdf

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

This certificate constitutes proof that a document has been anchored to a Blockchain using the Hedera Hashgraph Protocol on [Mon, 01 Feb 2021 22:42:15 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.provodb.com/app/document/share/27cc153daaa5bb3b548d201078219b5a5ac87a8409a956de551159d218e15fdc02ebfbb4b553a05f22eba9c782dc90c358a5284e233588cade897afeb9b0d2a9fa8913d77cc1baf45a97cecf7eb586c97407686279992f4121649230ef83e5d19e9a2d5064b2d9b312a656fff94c204c80ddf769be5076863876456f0d35350d2ea3e9506e504fef9f5c0b9859e5f5/compliance>



Details of the document being proved

The document was uploaded by Hedera Hashgraph (email user: contact@hedera.com) at *Mon, 01 Feb 2021 22:42:12 GMT*

The document name when hashed was "hh_tokenization-whitepaper_v2_20210101.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:
`cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afd1b79`

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://explorer.kabuto.sh/mainnet/transaction/81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3>

See *Schedule 2* for a detailed cryptographic proof.

The Hedera Hashgraph proof was anchored to the Blockchain in transaction [81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3](https://explorer.kabuto.sh/mainnet/transaction/81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3) at: *Mon, 01 Feb 2021 22:42:15 GMT*

Summary

The document `hh_tokenization-whitepaper_v2_20210101.pdf` with hash value `cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afd1b79` was anchored to the Hedera Hashgraph Blockchain by Hedera Hashgraph (email user: contact@hedera.com) at: *Mon, 01 Feb 2021 22:42:15 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 `cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afd1b79` 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 `cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afd1b79` is associated with the root hash placed on the Hedera Hashgraph Blockchain in transaction <https://explorer.kabuto.sh/mainnet/transaction/81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3>

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

Below is a binary representation of the Blockchain proof

```
eJy0L2uG0QThr+L+C6Agtbx7s7uzkyqI3ELVDrmfrGIE9uynUDKHiY2uQPIQkiUSFK7sMSF4N8DkREFg0S7a7mmd/3/
eZuLcf1+cbcgh3H4Egs2o1JYBBckSKsSjndZLpV897NsleqB.J0kvSryTxfMau0r7c7j/LFLaWDDFKY8FrUGLwRaLpo0ieZqFv3X
+5DjU32yOZ3ilIlp19aaXVR2qLUT1t73NvjOj57j7fd4V/iL5H/hH+nB9naOo6vX35/Kxq3P+9dV76z1cPHm93++Pv//v/
i29vzzaxTSqS5u5fpuYdNCBzDcPahCsg5Z8nJws3lbFaZHxPqTRSnF9/t9m+Pa1m0Me
+B4GpppCDkXrpQmxMZBLI1dEPHrhjJBBOqtRmsgkaQo6lCwhWQC3hpjWr1YJ3ZHTS6BHjNygqIpTRkLVbZrCYHDB
+jDoQ6AeoVUEZPbVlbKaqBU1J8spJKhe59Di6K02hEmR0xEggYbWbzbqDDbh8DD
+WY4a5EUCwBtLaIXx8qJlTDARckQq3OQRikVbSWJkQYdXJzvQJqiMys7CguKYj01KgBFRKOVogHT/
UM5C7u0c3lSkPGCGfrV8A60SrPjPQhvapEePc6wnzOy1oGhmtxixxVvaEwlqKD1bQHxFclZuW6mVWSr5cT8dKXC0Yhcfwgkajd6EYLD08M2sg+
+gEme36bMQ7iQeY4qRkyFxyBhcskxp3QzYjaKX1FjijGfUyGnGhFlmuW4YezL3aTIWSppzAPgrhtFDI0Yk9bFivTbEXMAHPu7iOQV29/B348qKYVv/
eXsSz0xxffX13er6PNya3Pzw8rTZ+/pyqTJ6UhUjdy2U1BYZC5L2KKKxDKjpnVilVrc5sBkAyJkLMXrp5wQwtEaATYfQRPdVHN1W4e3rYHF
+dX69Pp/3x8XL5kPrR/rDbpehtPNrsls/isMnny3V4HG1R1DbbbZyW/3VIDy5z/uhIMx+mXv05nwfjeXджу+0pvjr99lcPX8LGH
+00XyxtLZvtfrfZnpbP4H68P37y/umPAAAA///N/egC
```

Schedule 3: List of printable links in the document

Document being proven:

<https://app.provencdb.com/app/document/share/b16d6fcdc01ef4c892fce3f5848caaa5d3229959d4625873fca2b195fae8f3351cdbc7176c3710cb1246e5e0a11783d79061a533fa6895d4236944af0924aac5aa972455f1dcb586048639b96b6b5ed1137aa89fa25e455f380dbe093e49c096f190d89341a623c90b279227649606bdb87749bb32e96f0f371039fa80a5caad8d59c2724ed1386ec9d5b04b269754/compliance>

Hedera Hashgraph

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

Blockchain transaction:

[81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3](https://app.provencdb.com/app/transaction/81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3)

Open source validation tool:

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