Hedera Hashgraph

Certificate of Blockchain Proof

Powered by ProvenDB

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.provendb.com/app/document/share/27cc153daaa5bb3b584d20178219b5a5ac87a8409a956de651159d218e15f02e2ebf0b4b553a05f2e9c782dc90c358a5284e233588ca897aefeb9b0d2a9fa8913d77cc1bafa45a97c6f7eb586c97407686279992f41221649230ef83e5d19e92d5064b2d95312a656ff94c204c50dd1769b507686387b456fd35350d2ea3e9506e504fe9f5c0b9859e5f5/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: cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afdf1b79

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/81a6968f08c9d9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c38a5673e6404cd07feb00e3b673545e4fbd54cbb3

See Schedule 2 for a detailed cryptographic proof.

The Hedera Hashgraph proof was anchored to the Blockchain in transaction 81a6968f08c9d9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb00e3b673545e4fbd54cbb3 at Mon, 01 Feb 2021 22:42:15 GMT

Summary

The document hh_tokenization-whitepaper_v2_20210101.pdf with hash value cdce9d7559ef70b4c98a358730a0a9b78ff4ca6dc1cd44ccf41818348afdf1b79 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.provendb.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/81a6968f08cb094a03d5b3efb37b9f8ec4f7b7d9ff1a01bc16f2c338a5673e6404cd07fe03e6b73545e4fbd54cb3

This proof can be downloaded (permissions required) here.

Below is a binary representation of the Blockchain proof

eJy0L2uG0QThrL+C6Agbtx7s7uzkyqf5C/LDvRmfnf9EugyjD0KHlYlyuQPIQK7sMSF4NGBkRE7g057a7mm7/3/
+e2ULcT1+cobggh3f4Egs2o1JYAV055KcSeSjIbzLrjvPvZj/NaL7zJklyS3jNkSrFyl7LcDlIj7gYBYfNGLwA1IPn0ieZqVf3X
+5QJU39y2O37U19aAuXyR2qgUT173Nv10j57/7f0d4V/IL5H/ji+i+9001oa6vXZ5/Keqj3P+90V76z1cPHn93++PV/v/
!3yvzxxz7Qs5S5puvYdNC82ZcPahCszg528n/jw3s3tbfa21z0XpqTRSN9/t9m+Pa1m0Me
+B4GpppCdkXrpQxmZBL11dEPHnjtJBB0qtRmsqkaQo6CwWhQ3hpyWrYJ32HT3S6Bhjestablish/PrkLVbZYcYHDB
+yQ6qAeevVUE2PvBvbKanbU1j8sPjKxe59bCl2OhEml0Ro0EggjWbzoQO418DD
+WyAm5E5uW5byLs8qjTLR7c40q30Q9Kv0s8JW.KQyJZLjvL4J06jC7jTj1YmKgYj9GWfK30VogPh7/
UMC57Qj300U6P4c0cPcGcGvKv8A6g9sPfJpQ6vapEc6PcV0vWvO1o10hmtvxx1vURRElWkJDK1bQ1XfcOUzw6iWfSw7t8bDKXCY0YcfWkjg36YELD08M2zg+
+gEne63bbM7Gy4QyRkMyFy8hCskkq30qJyaXK1FjyGRJyGn3hFmuW4Yen3.3aTiWSppaAPgrhtFDDoY9h8FVu7BEKMAHu7GQV9/28348kKyyYv
+eXsS2oxrXXF13esPYNya3Pz28t7U7/vpq1J6LhnUy6y2U1BYZCS5KXX0kimVQrvfcsS8kAyJj1XMsrp5wQWlEATQYRPVdN11W4e3ryrIF
+RX69JP/2x6L15kKFlr/2o2pehIPNvsto/smMny3V4HGT1RbbE2yJW/3V1IdySz/uhMMr+mXX5nwfJeXju+4QvpJ99nC9X8LGH
+G0XyuLZyvTFZnpb4g69F337/yuuPAAAAJ/zEgC
Schedule 3: List of printable links in the document

Document being proven:
https://app.provendb.com/app/document/share/b16d6fcdc01ef4c892f6e3f3f5848caaa5d3229959d4625873fca2b195fae8f3351cdbc7176c3710cb124e5e0a11783d79061a533fa6895d4236944af0924aac5aa972455f1dcb586048639b96b6b5ed1137aa89fa25e455f380d0be093e49c096f190d89341a523c90b279227649606bdb87749bb32e96f0f371039fa80a5caac8d59c2724ed1386ec9d5b04b269754/compliance

Hedera Hashgraph
https://www.hedera.com/

Blockchain transaction:
81a6968f08cbd9094ad035b3efb379f8ec43fb7d9ff1a01bc16f2c338a5673e6404cd07feb0ee3b673545e4fbd54cbb3

Open source validation tool:
https://app.provendb.com/homepage/downloads