



## Certificate of Blockchain Proof

Terrapass Certificate Q3 2021.pdf

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

This certificate constitutes proof that a document has been anchored to a Blockchain using the Hedera Hashgraph Protocol on [Wed, 14 Sep 2022 23:34:41 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/d63ee-6320eefe169fdc2cc5cef01c-ufqyx3mjgvp3baul14ck7jsy-466554/cv2>



## Details of the document being proved

The document was uploaded by Hedera Hashgraph (email user: [docusign@hedera.com](mailto:docusign@hedera.com)) at *Tue, 13 Sep 2022 20:58:38 GMT*

The document name when hashed was "Terrapass Certificate Q3 2021.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:  
`78c102203c87a90da20f4395323d47fc35a5d6f3198f7ea2a07c136123541d8e`

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=e773d4f486cd3ee4aac72cb2e212fcf09a69e3b21c86d161922e1c9d7774e16fd48abc2bde7f63c050443732772eea57>

See *Schedule 2* for a detailed cryptographic proof.

The Hedera Hashgraph proof was anchored to the Blockchain in transaction  
`e773d4f486cd3ee4aac72cb2e212fcf09a69e3b21c86d161922e1c9d7774e16fd48abc2bde7f63c050443732772eea57` at: *Wed, 14 Sep 2022 23:34:41 GMT*

## Summary

The document *Terrapass Certificate Q3 2021.pdf* with hash value  
`78c102203c87a90da20f4395323d47fc35a5d6f3198f7ea2a07c136123541d8e` was anchored to the Hedera Hashgraph Blockchain  
by Hedera Hashgraph (email user: [docusign@hedera.com](mailto:docusign@hedera.com)) at : *Wed, 14 Sep 2022 23:34:41 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 `78c102203c87a90da20f4395323d47fc35a5d6f3198f7ea2a07c136123541d8e` 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

`78c102203c87a90da20f4395323d47fc35a5d6f3198f7ea2a07c136123541d8e`

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

<https://app.dragonglass.me/hedera/search?q=e773d4f486cd3ee4aac72cb2e212fcf09a69e3b21c86d161922e1c9d7774e16fd48abc2bde7f63c050443732772eea57>

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

## Below is a binary representation of the Blockchain proof

```
eJy0LL+OpUfRxr8L+QIC0tmpf13VtdFK3AIRyVBVXc0caT1ndObY4HAhIV3fgfEiG4SIECH3MRIXg860sViOSJAI33q7fv08Xd3Pb7/
LUzzUfT999evfv43st39+XHm3jnX38uOb4+PT3//v/999fXp+02Ozt+DANbqJ5ki2zRyRu3H22tP35qLm6btXIATRzpULbQe++93x8dun+7ihoe++fvv8Rj
0r1TWHLBFfBD6FKsFBYLLtCoa5TYAmOhmg7LmWujFaJFwBJXxZZm8r45y4AGXF1EaVAg3b07PGGGS2WNB58wuKfQlwPtT4On5DVslQkydRY4
uhZA4hxMZ5xhaCk2KrKGLF5uqJ1CvvRZOAr1SSMlxxZyNuQQMx8wiAbRRpCaWNGQMhjXEfS4WkanZroa
+FI0BGyb19tok6Q04iLR1zk0TTDhkoZvsApAJVRSzt26aQ9vd2K4sE0/
A2LGXDQII7Y1hGcm6xzDqPTWUGmDnFBqDRFUu7rl3Y14BF3hsiVqI0aEwMTPJ90AY1EtEp5JJjXRXDhk8ycVa/
IV8ZdlVLNT3NEL2mGPPJFNeXru4W0aQqSM4yx0ZGVsqdZiv4ZZ8BQT11hzmAC4CRKCTGk2pzqOgg3gtNgvH2Nhrs4SykmWrXkF5N1z0klZc8MQc
+MFUili6oiractOzBiBiVvXVI9L28GVC8YVMM0qUkZVcTJMRBpCMPeOObj0Im
+IDt052aKX95gEs7wjM/1qKJsuT3TsETG4sZk0eU2jIB0MGeY6WtXGGtCtsS
+X0rEMRPTfFV6mXJbRm2HLnLUUig0iKoMnukXbXoJWYTA092oi3TDQFX1wfwL8Poqef3TJovtefyq7z+Lw8NDnu0soHU//kk7v3337Unt6/5sP5y8f
+5uKt3/4ftlhPf+8zXjJlqm1uFsiyqiSmpB2bfBQb07CmrpQ0Ykay5eZSaPuJTOyKFFb/jgdEGFjMqPuGPbh89Ph6f3zV/
fn8+PT69vbl61fPZ6Oxx35tl8djrdf90mww7z91Mvt/1rZd2/q+HDuX53/9k9tv+TDenU8/eK27uPw8Hg8PJxvv+CPx/bHn/xQ+nAft/
fPb2wWAhFwTQUHFQRb2AcTL7FdPGIs3Yw+t3VQgBWylvEQXLP/dMHcHdbdw3H1849XAHGNuqnp4wax/SaY9g0FRdPKqpa/fmx5+jw/O5zP/
dJ5F+e/EBDdgN+g/JT4NctrwZ/9gK/j6b/EXzr/E/4fAQAA//8vEkEX
```

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### Schedule 3: List of printable links in the document

Document being proven:

<https://app.provencdb.com/cv/d63ee-6320eefe169fdc2cc5cef01c-ufqyx3mjgvp3baul14ck7jsy-466554/cv2>

Hedera Hashgraph

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

Blockchain transaction:

[e773d4f486cd3ee4aac72cb2e212fcf09a69e3b21c86d161922e1c9d7774e16fd48abc2bde7f63c050443732772eea57](https://hedera.com/blockchain-mainnet/transaction/e773d4f486cd3ee4aac72cb2e212fcf09a69e3b21c86d161922e1c9d7774e16fd48abc2bde7f63c050443732772eea57)

Open source validation tool:

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