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Revolutionising trust in a digital world

## Your Risk

In today's digital world, **information security** is paramount. It is business critical to protect data from malicious parties. The **growth of AI** and its **increasing prevalence** only **exacerbates** the problem of **validity**, **authorship** and **integrity**. Despite its many benefits, AI has made it increasingly difficult to produce or publish information that can be relied on, without **extensive research** into the **sources** used

**How do you prove, undeniably, that your data has not been tampered with?**

## Our Solution

Our state-of-the-art technology, **Codelmarking**, combines a **digital fingerprinting process** and **searchable reference registry** to create an unchangeable **audit trail** giving certainty to any type of digital data



**Proof of Integrity**

A definitive way to check that data is unaltered

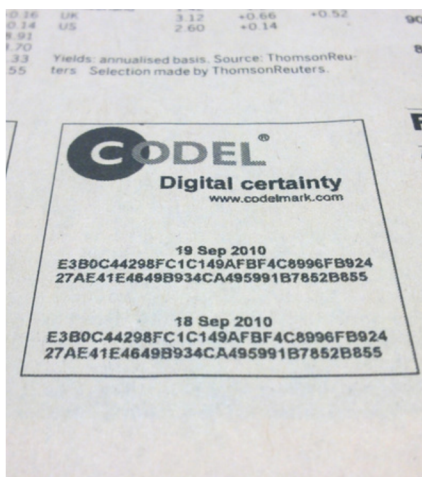
**Proof of Provenance**

For identified enrolled users, proof of data lineage

**Proof of Validity**

Check if held data is current, revoked or superseded

**What if the data is widely distributed?** - Verifying parties can **establish the validity** of the data they possess by checking the **status** of its Codelmark, which is managed by the original owner or publisher. The status clearly states if the data is **still valid** or **has been revoked, withdrawn, or updated**. This is critical for both **accountability** and protecting **intellectual property rights**



## How we do it

Our globally approved patented technology uses our **hashing algorithm**, that takes **data of any type and size**, to create a **unique unreadable 32 byte code** which becomes its **identity** or **Codelmark**

This process is **non-reversible** as **all original data is kept off chain** and the resulting code is **not** an encrypted version of the original data. Even an attacker in full control of the Chain can **not** replicate a Codelmark

New Codelmarks are **entangled with previous Codelmarks** so that every existing link in the unbreakable chain is used again, at least once. Half of the entangled links are protected with trust anchors in the physical world, by publishing in the Financial Times (left)

## Key Benefits

- Attacks can not deceive a Relying Party
- Quantum secure and No data on chain
- Provides trust without needing consensus
- Immutability is faster than any other blockchain
- Does not need to be tied to a Cryptocurrency
- Ecologically sound - Lowest energy consumption
- Enforces privacy of data
- Identity enrolment ensures accountability
- Integration into existing systems is simple
- Scalable

For more information or to discuss your requirements in greater detail, please contact email: [james.zorab@codemark.com](mailto:james.zorab@codemark.com) | phone: +44 7730 456 463