

Independent software vendors



# OUR WORLD RELIES ON TRUST



## **But often** we find ourselves missing that trust

Diploma/certificate fraud
Construction casualties
Invoice fraud
Identity theft
Revoked licenses
Malicious representation

The typical organization loses **5 percent of its annual revenue**to fraud each year.

When applied to the 2017 estimated Gross World Product of \$79.6 trillion, this translates to potential global fraud losses of up to **\$4 trillion**.

2018 Report to the Nations Global Study Occupational Fraud and Abuse





## If proof becomes important, it's often already too late.

Prevention > Cure

### **Proof Engine**

LTO Network's Proof Engine allows you to secure any digital data against manipulation, protecting businesses against digital fraud.

Our Proof Engine is easy to integrate in existing IT infrastructures and connect to any (legacy) system through an API.

Add a layer of trust to invoices, medical records, emails, documents and other digital data in a matter of minutes at a fraction of the costs.

PARTIES USING THE LTO NETWORK PROOF ENGINE







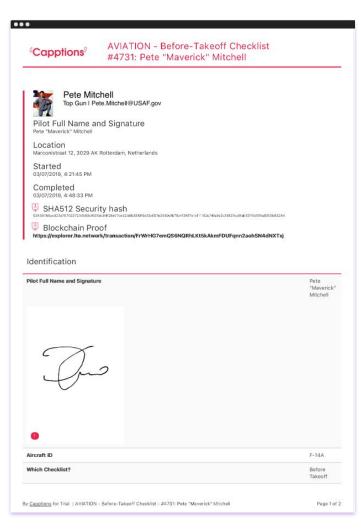












#### **Inspection Reports**



By integrating LTO Network's Proof engine across the Capptions platform, we are able to give blockchain a mobile face. For Capptions, adding blockchain to our applications is something that we deem helpful for our clients.

Our clients are dealing with environmental inspections carried out by the Dutch government, oil terminal inspections for parties like Fujairah Oil and the safeguarding refuelling of thousands of aircrafts at Schiphol airport. Our inspection app handles sensitive and vital data, so immutability is critical. With the implementation of LTO Network we're able to let multiple stakeholders monitor and provide one, but decentralised, secure audit-trail in real-time, at every stage.

— Jonathan Stolk - CEO - Capptions



#### ☐ SignRequest

#### Signing Log

Document ID: 9KR1ZRYZ

LegalThings

Document name:

Non Disclosure Agreement (ENG).pdf SHA256 security hash:

(martijn.broersma@firm24.com)

LegalThings has sent you a SignRequest

SignRequest <no-reply@signrequest.com> on behalf of

SHA256 security hash: ee78e8230af69c0295275bd76751782e969cca385f8a8a43627b573e51e3fc5f

Sent on: June 11, 2019, 11:46 a.m. (UTC)

From:

To: hello@seanlangedijk.com,

Subject: Message:

Please sign this document.

Kind regards,

LegalThings

IP address:

User agent: GuzzleHttp/6.2.0 curl/7.53.1 PHP/5.6.35

Blockchain timestamp proof: LTO Network

https://explorer.lto.network/transaction/

C7UBmicN87Rn5KinDVEwWLDECNBKVNBM1FPyUatoCG3U

martijn.broersma@firm24.com

Email address verification:

Not verified by SignRequest

52.16.126.126

hello@seanlangedijk.com

Email address verification: Signature added, page 2: Verified by SignRequest

IP address:

46,244,105,58

User agent:

Document signed:

Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_14\_5) AppleWebKit/ 537.36 (KHTML, like Gecko) Chrome/75.0.3770.80 Safari/

537.36

June 11, 2019, 11:49 a.m. (UTC)

diederick@ltonetwork.com

Email address verification:

Not verified by SignRequest



#### **Digital Signature Manipulation**

"Using the blockchain for Proof-of-Existence for electronic signatures just makes sense and is already happening. When we researched blockchain platforms, LTO Network stood out in terms of speed, set-up, and capabilities. We are able to include the blockchain transaction identifier directly into our signing logs which are circulated upon signing without the need to wait minutes for confirmations.

Next to that, the potential of creating decentralized workflows did the trick to add the LTO Network solution as an option to our users."

— Michael Krens - CTO - **SignRequest** 







#### This file is authentic and unchanged

\( \frac{1}{2} \) Level 2 V-ID Validation (advanced security level)

V-ID hereby certifies that the scanned data fingerprint matches the V-ID fingerprint in the blockchain. The V-ID fingerprint of this file was first included in the LegalThings One blockchain on April 1st 2019 10:55 by LTO Network, represented by Marnix van den Berg (V-ID) and Rick Schmitz (LTO Network).

The V-ID fingerprint of this document is the first V-ID hash that is validated in the LTO Network Blockchain. You can check the <a href="mailto:corresponding transaction">corresponding transaction here</a>.

#### More info

https://about.v-id.org/lto

verify another file

learn more about V-ID



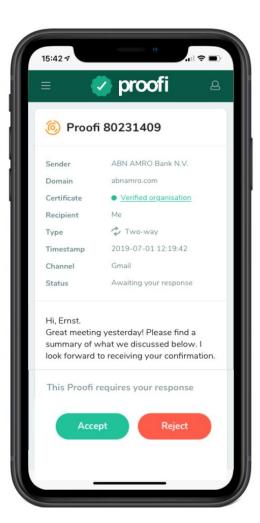
#### **Document validation technology**

"V-ID secures any digital file against unlawful manipulation using the LTO Network blockchain, protecting businesses against digital fraud, and letting people focus on innovation.

After you have downloaded a validated file, you can verify it at the Verification Terminal at v-id.org. If you alter the contents in any way, the file will lose its verified status and the Verification Terminal will detect it. You can also print the file and scan the QR code. The digital version of the validated file will show up on your phone, so you can visually compare the printed contents with the original file."

— Marnix van der Berg - CEO & Founder - V-ID







#### Trust in online environments

Our world relies on trust. Yet, we still can't guarantee trust in the opposed party in online business transactions nowadays. We increasingly use communication apps to do business, as commercial transactions are instant, global, and 100% digital.

With Proofi users can are sure that:

- They are interacting with the right company
- They are dealing with an authorized contact person
- The data objects that are exchanged haven't been tampered with
- Harm Bayinck Stanford Codex Fellow **Proofi**





Link your own -or your independent software vendor's system- to a node in order to receive proof receipts





Set up your own node on Windows, Linux, Mac or use AWS, Red Hat, Azure, etc.





The global LTO Network validates all transactions



Why organizations should use **LTO Network** for Proof-of-Existence

#### **Fast**

You want an instant transaction receipt

#### Ease of use

Your systems are linked in minutes

#### Costs

The most cost efficient solution

#### **GDPR** compliant

Encrypted & hashed proof of data

#### **Decentralized**

Trusted verification by dozens of nodes

#### **Usable as SaaS**

Just buy credits and start immediately

#### **Proof-of-Existence fabric comparison**

Fabric	Type of network	Network sustainability	Decentralized / Permissionless	Response time	Anchoring Optimization	Fees / Costs
TIERION	Centralized application on top of Bitcoin and Ethereum, acting as a "middle man" for PoE.	No revenue model, no sustainability, unclear token model, burning ICO funds.	×	5400s	<b>✓</b>	Free (limited) / Enterprise license
<b>FACTOM</b>	Permissioned set of nodes on top of Bitcoin, acting as a "middle man" for PoE.	Subscription based model with recurring costs. Limited product flexibility.	×/ <b>√</b>	600s	<b>/</b>	0.20 USD
<b>♣</b> ethereum	Permissionless public blockchains, primarily focusing on financial transactions.	Community-driven. Costs are extremely volatile and negatively influenced by network success.	<b>✓</b>	30s - 900s	X	0.10 USD
	Permissionless public blockchain optimized for anchoring.	Combined community and subscription based. Upgradable to additional functionality. No recurring fees when staking.	<b>✓</b>	1.1s	<b>✓</b>	0.02 USD



## It's not just a promise in a blockchain white paper...

























## **Executive** team



Rick Schmitz CEO

Tax Lawyer, Ex-PWC and Co-founder of LTO Network. Member of ISO committee on blockchain standardization.



**Martijn Migchelsen** CFO

Economist, Ex-PwC and Co-founder of LTO Network.



**Arnold Daniels**Software Architect

Significant open-source contributor and lead on ProActive (acquired by Visma in 2018) and Cloud9 IDE (acquired by AWS in 2016).



**Sven Stam** CTO

CTO of LTO Network. Artificial Intelligence and DevOps expert.



Martijn Broersma

Operations manager, responsible for LTO Networks daily operations for the past three years.



Join the adoption movement!

**BOOK A DEMO** 



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