PROVER.

AUTHENTICITY VERIFICATION OF USER GENERATED VIDEO FILES

PROVER is a blockchain technology for authenticity confirmation of events and facts through timestamp security and Blockchain for taken video content. If the video is confirmed as real - the captured fact is proved as true. This fact should be taken into account as the main and trusted source of verification. PROVER is a technology combining timestamp authentication and Blockchain, an SDK for third-party services and solutions, a protection system of frauds and fake content and establishing the trusted environment in legal, financial and other various industries where is critical to know the truth behind originality of video content.

Vision

Prover's main aim of technology is a social consideration to give people and companies the opportunity to possess and share reliable information and to trust each other in the coming era of scaling video content industry.

The problem that Prover solves

Everyone can record video at any time. It is fast, simple, available and convenient. Many companies use video content in their business processes - it gives them a competitive advantage. But technologies allow others to edit and fake videos, which seriously undermines the credibility of that format. Prover solves this problem at the very beginning, leaving a some-stated watermark and saves it in Blockchain to keep information of the creator (time, place, person, device) untouched.

Technology

Our technology ensures that:

— Video was recorded on a real device, and not edited in advance and emulated via a virtual camera as a fake.

— The video does not contain traces of editing and modification.

— The video was recorded in a strictly defined time interval. Not earlier and no later than specific timestamps, objectively stored and verified in the blockchain.

— The technology that allows to use it in listed below spheres to prevent video fraud in social, business and legal issues, giving creators more time on taking snaps without any legal issues regarding originality of content or its ownership details.

The business model

We offer our technology as a functional addition for integration into third-party services and applications. Having the opportunity to guarantee the authenticity of the recorded video files, platforms and services will be able to obtain a strong and solid competitive advantage by simplifying, speeding up and reducing the cost of video verification for their business processes. Prover can reduce damage from activities of various scammers and hackers. The monetization process of the project is a simple paid model of integration or implementation designed for each service on demand.

Use cases

— This technology could be interesting in all the industries, where is critical to know the truth:

— Fintech, when it comes to authentication of loaner's identity. Banks and financial services providers can verify clients during the customer onboarding procedure with lower risks of identity theft. Clients can perform remote actions within the system.

— Auto insurance, dealing with fraud of security addition in contractual terms. Clients can record video evidence in case of insurance loss for insuranceon demand and car sharing services. Insurance companies can receive video evidence of performed services covered by insurance (medical, repairs).

— Simple video proof of ownership, working for bloggers as example. Individuals and organizations can store a timestamped video hash on Blockchain as a digital proof of ownership for original and authentic video content.

— Public statements, to keep secure what is said before editing. Public speakers, celebrities and businessmen preventing reputational damage from montage, CGI and rapidly growing sophisticated machine learning algorithms and tools able to edit or generate fake video statements

— Crowdsourced media platforms, to keep ownership of actual content makers. Public and crowdsourced news platforms can validate the authenticity, exclusivity and timing of video news submitted by individual contributors

— Video platforms with user-generated content, of exclusive contributions. Both users and platforms can prove the authenticity and exclusivity of user generated video content and share monetization proceeds.

— Online dating, keeping users from fake content. Users can be sure that they are chatting with a real person on video dating websites and services.

— Outsourced reporting, carrying out remote inspection of actual performance. Employers and contractors can exchange authentic and time stamped work reports.

— Accident reports, to proof someone's position in court using evidence. Both parties involved in a traffic accident can rely on a video recording to prove authenticity of time, date and record of the accident.

— Notary actions, allowing people verify video content without visiting special parties. Parties can maintain a Blockchain video database of trusted "handshake" agreements.

— Home education and exams control, allowing remote authentication of online courses. Video recordings can be used to confirm authenticity of a particular person takingan online exam.

SWYPE ID Algorithm Illustration (MVP)

mvp.prover.io
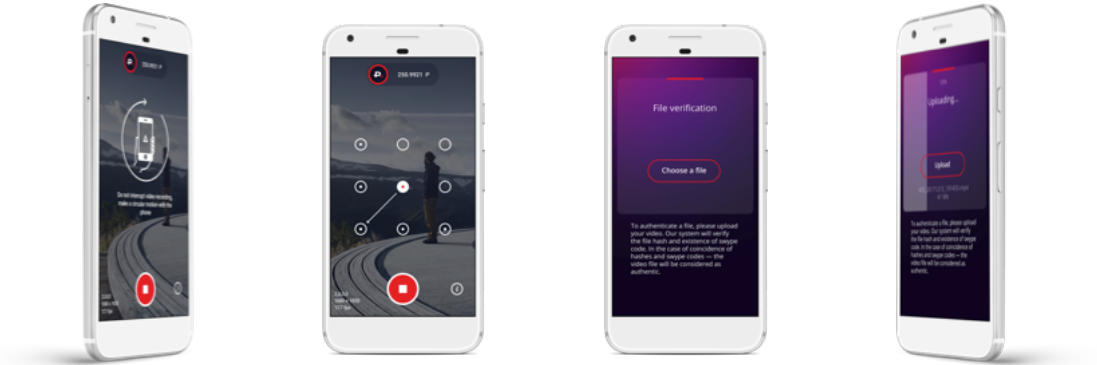
— User follows the app instructions and moves the smartphone up, down, left, right or diagonal in a certain pattern before, during or after the recording (maintaining the integrity of the recording process).
— If user follows the instructions correctly, SWYPE ID creates a unique video sequence with embedded smartphone camera movements and hashes the file, creating a unique digital number.
— SWYPE ID addresses PROVER smart contract, which places the hash of the video file to Blockchain, thus putting a timestamp on the file.
— User sends the video file to PROVER client (bank, insurance company, news media, etc.) to access its services.
— PROVER client uses PROVER platform to confirm the authenticity of the recording and hash the received video file to confirm the hash was properly placed on the Blockchain.

Prover Clapperboard MVP

mvp.prover.io

— User launches the app and inputs the text information which he wants to be saved in blockchain and to be associated with video.
— Then user sends entered text to the blockchain and gets the hash of the transaction and block, which contains this text in blockchain. The hash of the transaction and its block is displayed as QR code.
— QR code appears on the screen of an application and user can capture it while filming the video by any kind of digital cameras.
— User could check the video file with that QR code by uploading it using frontend. Video analytics (on a backend) finds and recognizes QR-code, searches for a block in the blockchain, then retrieves the stored information and detects the block time. If a block is successfully found, the system returns message that the access is confirmed.

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TOKENSALE MEANING AND STRUCTURE

Prover project is holding a tokensale for product scalability and distribution purposes. Obtained funds are distributed the described way.

Key offering details

Offering size:	$5-10 mln
Token offering date:	Jan — Mar 2018
Token sale partner:	Cryptaur.com
More info:	Prover.io

Token offering structure

10% — Partners (business developers)

10% — Advisors

2% — Bounty

28% — Team
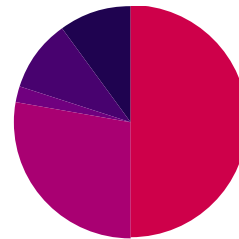
50% — Token sale

Core team

I. Svirin
Founder, CEO

PhD in Technical Sciences. Tech entrepreneur, founder of "Nordavind" group of companies. Software developer in the field of digital video surveillance systems, personal equipment and services for health (including the world-famous ECG Dongle and the CardioCloud service). Author of numerous scientific publications on information security issues, theoretical principles of programming and smart contracts.

D. Buriak
Advisor

A heavy-weight businessman with vast entrepreneurial experience in a number of industries—from ferrous metallurgy to wellness. Dedicated follower and advocate of healthy lifestyle. He can think big, express his thoughts in right words and turn words into successful projects. A virtuoso motivator and business visionary.

N. Nabilskaya
Co-Founder, Operations

3 years in software development, 5 years in research and development work, 2 years in applied research.

V. Voronin
Machine Vision and Video Analytics

PhD in Technical Sciences. Co-author of the monograph "Method and algorithms for the separation of a useful signal against a background noise during the processing of discrete signals". Reviewer of the International Journal of IEEE Transactions on Image Processing, International Conference on International Symposium on Image and Signal Processing and Analysis (ISPA), International Conference on International Symposium on Circuits and Systems (ISCAS). Winner of multiple awards for scientific research.

I. Pisarev
Co-Founder, Marketing and Product Development

Sales of security corporate software products since 2004, winner of the 1st graduation of Startup Academy Skolkovo.
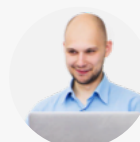
A. Rytikov
CTO

10 years of software development experience in security and video surveillance, key roles in several IT RnD projects.

E. Yuferova
Talent Management

25 years in human resources and management consulting.

V. Suprun
Mobile Development

10 years in mobile software development, author of ECG Dongle mobile application.