Elevator Pitch:

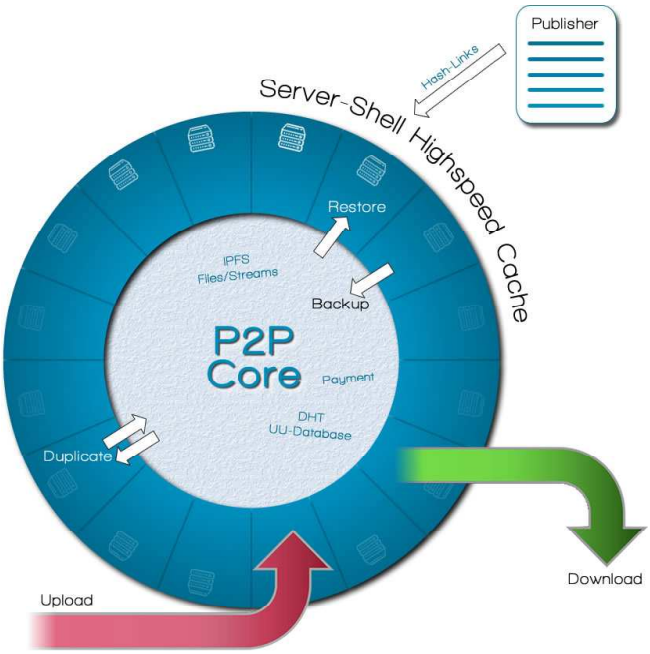
UltraUpload.io

is…..

revolutionizing ONLINE STORAGE

revolutionizing SHARING-Industry

revolutionizing STREAMING-Industry



The Core Idea: Hybrid-Filesharing-Network of Peer to Peer + client server = High Speed Server act as a super fast Cache-Shell for slow but robust Peer-to-Peer Cloud Storage Network, which is transparent and immutable. Main difference to **Storj.io** is paying for traffic not storage space.

2nd Core Idea (side effect) : new journalism/media/link monetization tool

The UU Network was realized between 2017 and 2018.

Our ICO 2018 will allow us to add 2 crucial features:

A) The Snowden-Coin (TM) allows an investment into 24% of UU revenues

B) ICO finances blockchain-development to remove the last single point of failure and reach a 100% unstoppable file sharing. This upgrade moves the UU-database itself into the p2p-cloud as a safe haven.

140 Chars (Twitter)

Snowden-Coin.com: ICO with Security-Asset-Coins for an unstoppable and censorship free Filesharing System with 24% Revenue-Participation (137 chars)

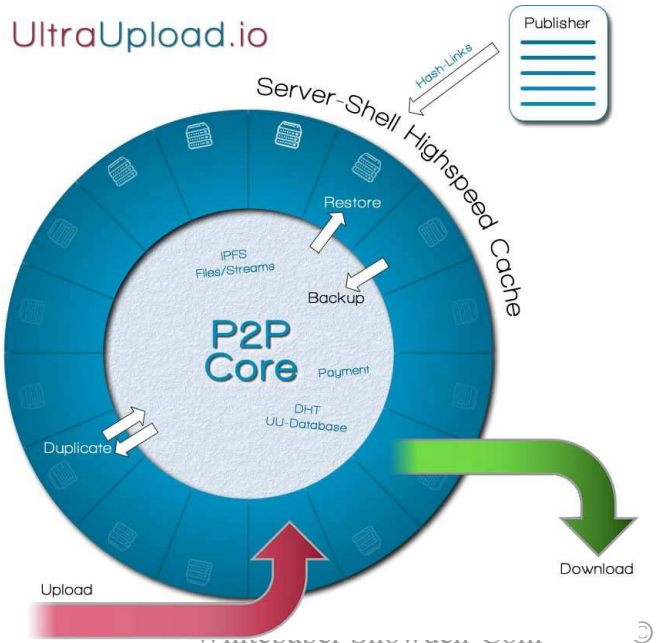
The Story: Press-Release Examples

https://medium.com 28.08

Trigger a “FileSharing Revolution” with www.Snowden-Coin.com

· By TCU, listed at FSE Frankfurt Stock Exchange, ISIN= DE0007454209, www.telecontrol.de · On 27, Sept., 2018 · Project: www.Snowden-Coin.com

TCU-AG—a German based stock listed technology company—hopes that its new software for UltraUpload.io will create a “filesharing revolution.” The platform will offer a secure platform for people to share files and get paid for it.
This week Petra Bauersachs, one of the 2 CEOs, showed a demo revealing more about what it’s going to offer.
UltraUpload.io is not a central hosting service, quite the contrary. It will allow users to upload content and distribute it to dozens of other websites (Publishers). The links are distributed across the Internet where they can be accessed freely.
The uploader and the publisher sets their price for each download and people who want a copy can only unlock it through an app or browser, after they’ve (anonymously) paid.
UltraUpload.io is basically a micropayment solution for large media files and other digital content, even just for links. It allows everybody to charge the public for everything they upload or publish. Every download is tied to a payment transaction.
“We combine the advantages of a robust, uncensored peer to peer (p2p) network with the high speed and anonymous features of client hosting.



Basically we developed our solution around the IPFS, a very robust and censorship free p2p-network. Around that core we designed a belt of high speed traditional host servers, where any hoster with unused bandwidth can plugin in minutes. Every file published is uploaded into the p2p-cloud and replicated to the high speed cache

where its ready to download without any special p2p-software.
From a user perspective the downloads are “Ultra” fast, cause a file is divided in up to 100 chunks and downloaded from 100 sources simultaneously. Other than in p2p-protocols, the user IP is not related to a file (only a chunk), and not to the public, only to the hoster who hosts the chunk. The hoster itself has no clue what file is downloaded or which content the chunk is a part of.”
People around the globe can often not find the content they’re looking for, so it’s TCU`s goal to distribute files as widely as possible.
She stresses that site owners (Publisher) and uploaders as well as hoster can greatly benefit from it as they receive fees instead of take down notices, while the downloader has more security, privacy and speed than in p2p-networks.
“Wikileaks for everyone”
To make UltraUpload.io even government resistant, the UU-database will be transferred into a blockchain. After that a published file cannot be deleted anymore. Not even by the service itself. Investors of the www.Snowden-Coin.com participate by 24% of all revenues from the website. The ICO is launced in September 2018.
Meet the CEOs 12/13 Sept. in London as speaker at the
https://blockchainworldsummit.co/

For technology experts. An astonishing side effect from a legal point of view :
Since none of the participants (hoster, publisher) stores copyright protected or censored content, its difficult to say, what a censor could claim to take down. For example, if a file is split into chunks with length 1. Could someone claim to takedown a file with an “0” or “1” inside? Or chunk-length 2: Is hosting an “01”,”00”,”10” or “11” a copyright infringement? No, not even if a “01” maybe found as part of a censored content, cause this sequence is also part of any other files. Which is the chunk length when the answer would turn into yes? Even the blueprints of the chunks, are chunks. And even the blueprints of the blueprints. More than that. A given chunk can be part of n files, m blueprints of files and x blueprints of blueprints of files and so on. You see the glitch? The recombination of useless data to a requested file happens only on the local machine of the user. Or in other words, a hoster can legally host “Nitro”, another hoster “Glycerine”. It’s the user, who mixes and orders “Nitroglycerine”, while another user only downloads “Glycerine”.

The beta version launched in 2017 in stealth mode, all services are expected to go live end of 2018 after finishing the ICO (www.Snowden-Coin.com). The ICO revenues are used to bring the last single point of failure, the chunk-database also into the cloud as a blockchain. With that last development milestone even the company itself can`t stop distribution of a specific file or the service itself.
Investors of ICO or any coin holder will participate directly and transparent on all download revenues (24% revenue distribution).
The internal tokens have a build in exchange system, making it even independent from exchange websites, which are very often insecure.

1 Pager ICO:

The Snowden-Coin™ 2018 TokenSale/ ICO Investors Summary:

Company: TCU (est. 1998), listed at the Frankfurt Stockexchange General Market ISIN: DE0007454209, Reuters Code: 1124025,FRA
Technology leader in P2P HTML5 Video streaming

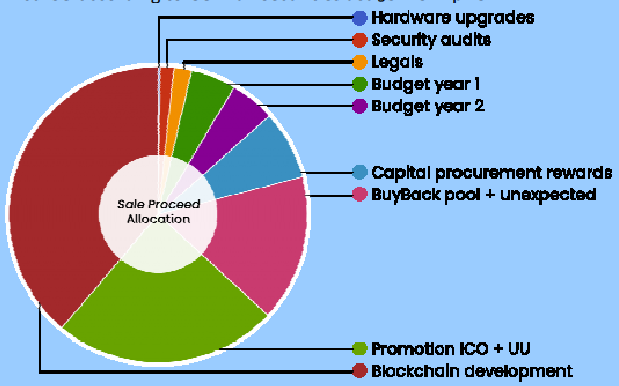
Petra Bauersachs, Chairwoman of the board, Founder

Guido Ciburski CEO, Founder

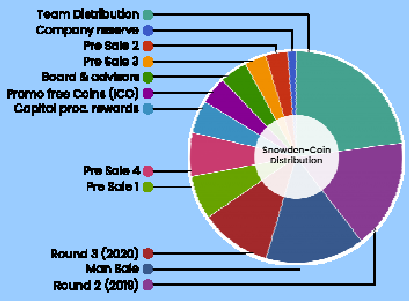
TEAM: >10 professional developer. >90+ years in business

This ICO sales system is fair and innovative:

* 24 mio. coins generated. 8 mio. stay in the company, 16 Mio. on sale
* "no pump and dump". There will be coin sales in 2018, 2019 and 2020.
* 15% referral provisions by using our **Ref-Link-System**.
* First ICO according to German securities act §3.2.5 WpPG



Completed: UltraUpload.io provides a complete payment ecosystem for anonymous up/downloads, streaming (!), filesharing, link-selling and revenue distribution. It combines the speed in servershell with the robustness of Peer to Peer Kernel. It is censorship free/anonymous
After the ICO: investors will participate in 24% of all website revenue. 6% goes to the company (TCU). The rest will be split between the uploader, publisher, hoster and reseller.
Our vision: the ICO allows to move all central databases into a blockchain. This removes the last single point of failure, creating a truly unstoppable service, even government resistant.



Transparent Project Estimations/Goals for Coin Values

Average price per DL (after VAT)	1,90 €	
UltraUpload.io revenue share	30%	Yellow=your personal estimations. An online calculator is available at Snowden-Coin.com
Snowden Coin participation	80%	
Coin dividend per user revenue	24%	
Number of Snowden Coins mio.	24	

Goal-level (see Roadmap)	*Year 1*	*Year 2*	*Min. goal*	*Goal*
Downloads per second	1	3	10	20
Million downloads per year	1,50	4,51	15,02	30,03
System revenue (mio/a)	2,85 €	8,56 €	28,53 €	57,07 €
Coin dividend Mio/a	0,68 €	2,05 €	6,85 €	13,70 €
Annual dividend per coin	0,029 €	0,09 €	0,29 €	0,57 €
Coin value:				
3% interest rate expected	0,95 €	**2,85 €**	**9,51 €**	**19,02 €**
5% interest rate expected	0,57 €	**1,71 €**	**5,71 €**	**11,41 €**
10% interest rate expected	0,29 €	0,86 €	**2,85 €**	**5,71 €**
50% interest rate expected	0,06 €	0,17 €	0,57 €	**1,14 €**
**Extra boost not included (~50% of coins not circulating before 2020 =+200%*				
Annual project means:	0,17 €	0,51 €	1,71 €	3,42 €
Cover costs? (€ 1 million/year)	poor	poor	sufficient	**sufficient**
Team incentives to reach goals	high	high	reached	**success**
Scale estimates:				
Average revenue per User per month (ARPU)		4 €		
Required userbase (million)	0,03	0,09	0,31	0,63

Sale Participation: You can buy Snowden Coins with **euros** or **US$** via **bank transfer** and **credit card** as well as BTC/ETH.
> Start here: **Snowden-Coin.com** <

SalesRound 1 (2018)	price discount	Coin bonus	Start	End	Day	price/ Coin	Million Coins
Pre 1	-50%	+100%	4. Sep.	1.10.18	30	€0,565	1,6
Pre 2	-30%	+43%	4. Okt.	24.10.18	20	€0,79	0,8
Pre 3	-15%	+18%	27. Okt.	6.11.18	10	€0,96	0,8
Pre 4	-10%	+11%	9. Nov.	19.11.18	10	€1,02	1,6
Main	0%	0%	22. Nov.	22.12.18	30	€1,13	3,6
Rnd 2 2019			1. Sep.	1.10.19	30	€2+	4
Rnd 3 2020			1. Sep.	1.10.20	30	?	3,6

Roadmap: 9/18: **ICO** 10/18: End **of stealth mode** for UltraUpload.io 12/18 Revenue distribution 2018 * 1/19 **Blockchain ledger upgrade development** * 9/19 **2nd ICO** 10/19 UU V2 : **transfer databases** into the blockchain ledger 12/19 Revenue distribution 9/20 **last ICO Rnd.**

UltraUpload.io - *a new dimension of filesharing – innovative benefits for..*

Downloader: Fully **anonymous**! Only the IP is visible for a hoster, but a hoster can`t reveal the content of a chunk. Parallel Download >10 chunks = **Ultrafast**. No websites = **no malware**. Direct streaming supported (!) *compare this with storj.io !*

Uploader lifetime **compensation** via unique hash-pattern (first come, first registered), superfast and **anonymously** upload of locally encrypted chunks.

Hoster: store encrypted chunks of a file **without any knowledge of its content**. Get payed for any download. Integrated P2P backup (P2P-core) => **RAID** systems not required => Double/Triple storage space (!), No **DMCA**, **website ,** databases, customer management, support or payment system required.

Publisher: No website, database required. **Anonymous**, no censorship. Different prices for different websites. **Reseller:** Anyone can grab any link (non UU-links too), add his price on top and resell (Onion-Links) .

Innovative Coin Value Concept :

1. Independent due to a build in **exchange.**
2. **Value of coin directly connected with website revenues (24%)**
3. Paying Dividends > we constantly buy back
4. At Dividend Drop Date coin holders tend to enlarge coins stacks to avoid round-up losses.
5. ***Extra ~200% Interest Boost:*** *Coins under the ICO address don`t participate in revenue distribution payments (e.g. 2nd/3rd ICO Rnd+undistrib. Team-Coins=~50% of coins).*

www.Snowden-Coin.com *(ICO),* www.**UltraUpload.io** *(file ecosystem),* www.**telecontrol.de** *(company)*

About this Document

V_08, content subject to change

White Paper unpublished private Version August 08, 2018

#2do = needs revision, *=Part of Executive Summary

This whitepaper is for information only and does not constitute an offer or any kind of investment advice. Any element of this whitepaper may undergo significant changes as the project further develops.

Publisher: UltraUpload.io -ICO by TC Unterhaltungselektronik AG Germany

Author: Mr. Guido Ciburski (GC@UltraUpload.io)

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Overview:

What and why we do: UltraUpload.io

Executive Summary: What is UltraUpload.io (short version)

Completed: UltraUpload.io provides a complete payment ecosystem for anonymous up/downloads, streaming (!), filesharing, link-selling and revenue distribution. It combines the speed in servershell with the robustness of Peer to Peer Kernel. It is censorship free/anonymous
After the ICO: investors will participate in 24% of all website revenue. 6% goes to the company. The rest will be split between the uploader, publisher, hoster and reseller.
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UltraUpload.io - *the new dimension of filesharing – innovative benefits for..*
Downloader: Fully **anonymous**! Only the IP is visible for a hoster, but a hoster can`t reveal the content of a chunk. Parallel Download >10 chunks = **Ultrafast**. No websites = **no malware**, direct streaming (!)
Uploader: lifetime **guarantee of compensation** via unique hash-pattern (first come, first registered), superfast and **anonymously** upload of locally encrypted chunks.
Hoster: store encrypted chunks of a file **without any knowledge of its content**, never a complete file. **Get payed** for any download, Individual charge for €/Gigabyte (**auction system**, the lower the price, the higher the traffic). **Installation** in minutes. , Integrated P2P backup (P2P-core) => **RAID** systems are **unnecessary =>** Double/Triple storage space (!), No **DMCA**-abuse. **No website necessary,**
Own databases, customer management, support or payment management are unnecessary.
Publisher No website necessary, fully **anonymous**, no censorship hassle, no database necessary GFR (Global File Register) with content description linked to hash, Different prices for different websites**. Reseller:** Anyone can grab any link (non UU-links too), add his price on top and resell (Onion-Links) .

Executive Summary: What is UltraUpload.io (long version)

UU=Trusted global distribution of digital content

UltraUpload.io is a decentralized storage network that turns cloud storage into an algorithmic market.
This creates a powerful incentive for all participants as Uploader, Publisher (Websites), Hoster, Downloader (pay very small fees) to amass as much traffic as they can. New: After ICO even investors can participate

The protocol weaves these amassed resources into a self-healing bandwidth network that anybody in the world can rely on. The P2Pcore (IPFS) of the network achieves robustness by replicating and dispersing content, while automatically detecting and repairing replica failures. Several replication parameters protect against different threat models. The protocol's cloud storage network also provides security, as content is encrypted end-to-end at the client, while storage providers do not have access to decryption keys. UltraUpload works as an incentive layer on top of IPFS.io, which can provide storage infrastructure for any data. It is especially useful for decentralizing data, building and running distributed applications and implementing smart contracts.

UltraUpload protocol provides a data storage and retrieval service via a network of independent storage providers that does not rely on a single coordinator, where:

1. Clients pay to download data
2. Storage Miners earn cash by offering bandwidth (not storage)
3. Uploader and
4. Publisher (Linkprovider, Website-Owner) participate in any payment.

Unique Benefits for Uploader

- **Early bird benefits:** The first uploader for a given file (hash unique) will earn all self defined uploader-revenues for a lifetime. Download and re-upload of content will not circumvent that flow of revenue.
- **Fully anonymous:** as all files are dechunked on your local machine. A hoster will never know what you are uploading. A hoster receives only a fraction of some chunks from your IP (never a complete file).
- **Publisher friendly** : An uploader can define if all publisher shall be noticed about the new content or only a subset or none, if an uploader wants to act as an exclusive publisher too.

"Upload your content, we provide the payment engine! "

Unique Benefits for Downloader

- **Fully anonymous!** While within a peer to peer network (e.g. Bittorrent) everybody can watch what you download (and upload!), as everybody can be your peer, a download here is protected twice:
  1. only the hoster itself can see your IP
  2. the hoster has no knowledge about the content or even the filename.
  You download only senseless pieces (chunks) of a file from each hoster. The rechunk-process will be done on your local machine, regenerating the original file.
- **Ultra fast!** As a Server is faster than a p2p-network, here you use up to 100 Server (each for a chunk) in parallel. The hoster network acts as a super fast download cache-shell around the robust, decentralized, uncensored p2p kernel.
- **Very low fees:** Because all servers compete for the chance to host, the cheapest hoster will provide for you.
- **Secure:** No malicious ads, no virus, no malware, since you never have to visit a hoster website.

“ Ultrafast anonymous downloads + streams “

Advantages for publisher

- **No censorship-hassle:** All take down notices, DMCA requests, trademark claims, government censorships, user comments are handled centrally by deactivating one instance of several access links within the network.
- **No database necessary:** Once registered, you receive new content links by mail, RSS or within your account. Easy drag + drop on your website, which can be hosted anonymously by zeronet.io e.g.
- **Your website, your price:** Publisher declare the price for each content according to their target group. Feel free to grab a cheap link from another site and sell it for a higher price or vice versa. Your house, your rules.

- **Flexible pricing:** Currently we offer 3 Models: 1. Fixed Price, 2. Fixed additional charge on hosting costs, 3. flexible % charge on host costs. Be as competitive as your customers demand.
- **Easy content management:** Pictures, Meta-Text, File attributes describing the content in multi languages and additional user comments can be grabbed from a central resource, the GFR GlobalFileRegistry.org.

Advantages for hoster

- **Monetization:** You declare your costs per GB (Bandwidth) and all downloads are payed without the hassle of own payment and subscription management
- **Easy setup:** You declare your bandwidth costs and add an address for your free storage space to the cache-shell. All management between the p2p core and your storage is done by the system (upload, replication, deletion of low traffic files, optimisation of storage/download ratio, time zone optimisation = no low traffic over night of your zone).
- **No censorship, take down abuse:** You are part of an global ultra-RAID-system without any knowledge about content. What you host are chunks of data, without any use to anyone. Legally you benefit as a transmission-cache from service provider privileges. You are free to delete any chunk at any time, since replication is done by the system.

Disadvantages

Once a file is published, it cannot be deleted, not even by the uploader him/herself. It will disappear from the server-shell (unpredictable) after a time of not downloading the file globally. It will nearly never disappear from the p2p-core and can (if requested) appear in the server shell at any time. **Censorship Resilience was one of the central architectural goals.**

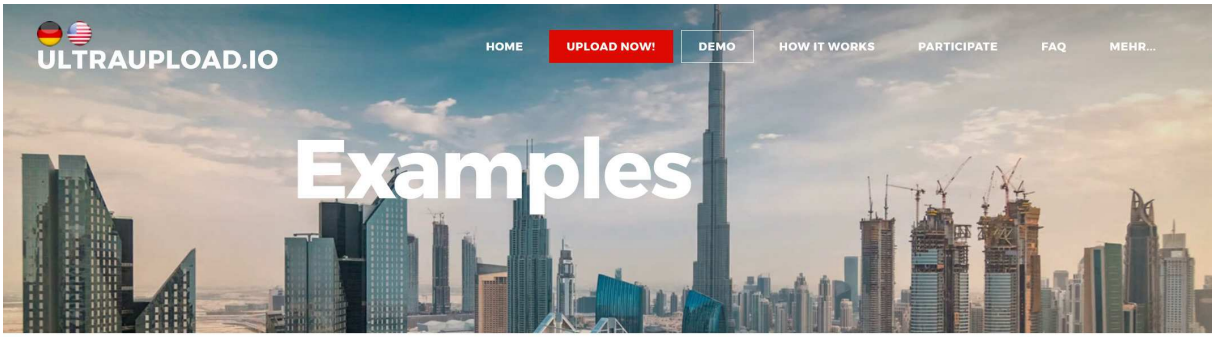
Payment Methods

- **Anonymous Services:** e.g. //www.coupon-cash.com (product of TCU), Nimiq, Bitcoin, Bit Cash and our own Snowden-Coin.
- Trusted Services: like Paypal, Creditcard, Bank Wire etc.

Note: All transfers are account based, records for single content are recorded without revealing information about content or filename (Only Download-Size and Date) and can be deleted on your confirmation.

Core Values:

We believe in open, free and uncensored network and communication.
You own the data. You control the network. Indeed, you are the network.



To login, pay and download please use E-Mail **demo** and password **demo**.
Please deactivate your pop up blocker if you use one.

Videos

Click on the titles to start video streaming.

Images

Click on the titles to show the images.

Links

Click on the links to get the hidden URL.

If you want to **get fit at home** you should read this. Or maybe **you need a lot of money?** Anyway, it is never to late to **learn how to dance** with someone! Oh and talking about money, you can **earn money as a hoster** here on UltraUpload.io!

Revolution of Censorship/Copyright-Resilience

Non of the participants of that network host a copyright protected file. Hoster receive and deliver only chunks which are basically useless bit-sequences, like 0100101010011. All or at least the most sequences are very common to a wide range of files. For example the mentioned sequence can be found in a private picture of your family, in a mp3 recording of your mother and in a Hollywood Movie. The legal consequence is very clear if you limit the chunk length to 1. Does anybody in the world has a copyright to the 1 or to the 0? If you increase the chunk-length to 2, the number of questions does only increase: Can anybody in the world claim a copyright to 00,01,10 or 11? If no, where is the length of chunks, where this answer turns into yes? But however, someone needs to rebuild the chunks to a file. This happens (same as the split process during upload) on the local machine of the user. Here therefore the user needs a blueprint, which is in fact also just another file. The blueprint of another blueprint, as well as its blueprint are also just chunks. The hoster itself hosts files, which are sometimes part of a file A, blueprint of file B, blueprints of blueprints of file C and that at the same time with the same file. There is technically no separation possible between legal and illegal files. Or in other words: One hoster hosts the Nitro, the other the glycerine. If a bomb is created it happens on the user machine, who orders Nitroglycerine instead of Nitro OR Glycerine. An Ultraupload.io-Link is just a pointer into a set of legal content. This pointer is only used on the publisher-website and generated by the uploader. Because most of the sequences are already hosted in the network (used within other files), most of the uploads are very fast.

More technical Details about UU and FAQ

UltraUpload is part of a revolutionary trend within internet services

Centralized proprietary services	..are being replaced with	Decentralized open ones 1)
Trusted parties	..are being replaced with	Verifiable computation
Brittle location addresses	..are being replaced with	Resilient content addresses
Inefficient monolithic services	..are being replaced with	Peer-to-Peer algorithmic markets

1) IPFS has proven the utility of content-addressing by decentralizing the web itself, serving billions of files used across a global peer-to-peer network. It liberates data from silos, survives network partitions, works offline, routes around censorship, and gives permanence to digital information

Elementary Components

The UltraUpload.io system builds upon four novel components:

1. Decentralized Storage Network (DSN)

We provide an abstraction for network of independent storage providers to offer storage and retrieval services.

2. Novel Proofs-of-Storage and Replication

allows storage providers to prove that data has been replicated to its own uniquely dedicated physical storage. Enforcing unique physical copies enables a verifier to check that a hoster is not deduplicating multiple copies of the data into the same storage space

3. Verifiable Markets

We model retrieval requests as orders in a decentralized verifiable market operated by the UltraUpload.io network. Verifiable markets ensure that payments are

performed when a service has been correctly provided. We present a Bandwidth Market where hoster and clients can respectively submit up/download orders.

4. Data Structures with Chunks

A chunk is some part of data that a uploader is storing in the Ultra-Raid (DSN). Data can be divided into many chunks and each chunk will be stored by a different set of Hosters.

Features of the UltraUpload. io Network

The UltraUpload.io Network is made up of the unused hard drive space, processing power and data connection of its users. Secure Access For Everyone: It offers a level of security and privacy not currently available on the existing Internet and turns the tables on companies, putting users in control of their data, rather than trusting it to organisations.

A number of features make this possible:

Self-Encryption: Data which encrypts itself, with itself.

Files uploaded to the network are broken into pieces, encrypted and distributed across the network. This process is called Self-Encryption.
When a user uploads (or saves) a file to the network, via one of the UltraUpload. io Network apps, the file is automatically broken up into chunks. These chunks are then encrypted (encoded so that only authorised parties can read it), randomised and stored on the computers of other UltraUpload. io Network users. These encrypted chunks are completely unreadable and inaccessible to anyone other than the paying user.

Distributed network with opportunistic data caching.

The UltraUpload.io Network is fully decentralised, with files distributed and stored all over the world on different devices. This allows the network to be robust to attacks, with no central point of weakness.
The distributed nature of the network provides your data with physical security, meaning that no third party can access or delete it, as can happen with existing centralised solutions. The feature called Opportunistic Caching automatically creates more copies of popular data closer to where it is being requested, so popular websites and other data feeds will actually speed up as they get more visitors, rather than slow down and crash as they do on todays web.

Data availability and built-in redundancy.

The network is programmed to keep duplicate copies of each piece of data at all times. As hoster turns their computers off, the network makes more copies and stores them on other machines, ensuring that users always have access to their files. This constant movement of data (called churn) is a key part of the security that the UltraUpload. io Network offers because there is no central point for hackers to target as the data locations keep changing.

Unneeded duplicates are automatically removed.

Once a file is uploaded, other users who upload the same file will be automatically referred to the original, limiting the number of copies and reducing the computing resources needed to store it.

Global distribution without human intervention.

Hosting: an incentive for a crowd sourced Internet.
Payments are given as an incentive to users for providing their upload-resource to the network. This resource is their bandwidth (not storage space, not CPU) that enable the encrypted chunks of network data to be stored and retrieved from their computer. Each piece of encrypted network data is stored in a Hosters Vault, a data storage and management location on the Hoster computer. The UltraUpload. io network is designed to self-manage these resources.

Resource based economy.

As network data is retrieved from a computer, the network pays to the hoster. This payment takes place every time data is retrieved. The payment is automatically paid by the network into the users wallet address that is tied (cryptographically) to their vault. The amount of payment a hoster can earn is directly linked to how much resource they provide to the network.

Proof of resource.

The resource provided by each hoster is continually checked by the network to make sure that it is still available. It does this by attempting to store a random piece of data. Should the network find that the resource committed to the network is no longer available, it reduces the rank of the vault.

FAQ

Which kind of files are allowed to upload?

You can upload any files you want. For the most known filetypes/codecs we offer the possibility to stream it directly. Actually we are supporting the following filetypes/codecs for streaming:
Audio : MP3;AAC;Ogg Opus;WebM Vorbis;WebM Opus;WAV-PCM
Video : MP4; WebM; Ogg Theora
Docs : . php; . php; . txt

Up to which filesize can I upload?

The maximum file size is not limited.

Are there any download speed limitations?

Currently there are no limitations. It depends on many factors, but its on average 8-10 times faster than download from just one server.

How long are my files hosted?

Files will be deleted after variable days of inactivity from high-speed hoster cache level. The files with low traffic will be deleted first, if storage place is rare. The file is still available in the p2p-kernel and can be restored if traffic raises again.

Overview: UltraUpload solved/unsolved problems..

Reached Innovations = solved problems

Innovation 1: UU combines Download with Payment (realized 2017)

with 1 download click the user pays the publisher, the hoster, the service and anybody helping him to find this source (onion recursion system)

Innovation 2: Hoster is safe and paid (realized 2017)

No takedown-notice-hassle, no payment-integration, no customer management, one click docks a server to the storage-network

Innovation 3: downloaders (you) are anonymous (realized 2017)

Nobody knows who downloads what, all encrypted chunks are recombined only at the client side

Innovation 4: Uploaders are anonymous (realized 2017)

Nobody knows who uploaded what, all cryptic chunks are generated at the client side, payment id can vary from uploader account

Innovation 5: publishers are anonymous (realized 2017)

Nobody knows for what content you are paid, payment id can vary from publisher id,

Innovation 6: Hoster need no RAID or other data protection systems

Cloud object stores typically use RAID schemes or a multi-datacenter approach to protect the file from physical or network failure. Since data protection and redundancy is managed by the system, no protection is necessary on hosters side, saving up to 200% storage place and costs.

9/18 Solved problems:

Investors shall participate (solved by ICO) (Roadmap 1st 2018)

With introduced Snowden-Coin, download revenue pays back to investors, transparently

Transparent payment (solved by coin blockchain) (Roadmap 2nd 2018)

Even all cash flows are anonymous, all participants can proof the correct amount of pay outs: Publisher, Hoster, Downloader, Investor etc. via public blockchain

UltraUpload central location database will be unstoppable (solved by blockchain/DHT)

The chunk location database is the last single point of failure. By moving it into the blockchain the UU service is completely unstoppable and resilient against censorship.

Design of UltraUpload

UltraUpload is a system that creates a distributed network for the formation and execution of storage contracts between 3rd party hosting servers. The UltraUpload system enables datacenters on the network to negotiate contracts, transfer data, verify the integrity and availability of remote data, retrieve data, and be paid by downloaders. Each peer is an autonomous agent, capable of performing these actions without human interaction. The peer-to-peer cloud storage network (www.ultraUpload.io) implementing client-side encryption allows users to transfer and share data without reliance on a third party entity.
The *removal of central controls* would mitigate most traditional data failures and outages, as well as significantly increase security, privacy, and data control. Peer-to-peer networks are generally unfeasible for production storage systems, as data availability is a function of popularity, rather than utility.
We propose a solution in the form of a challenge-response verification system coupled with direct payments.

In this way we can periodically check data integrity.

We further propose a model for addressing access and performance concerns with a set of independent or federated nodes.

General information about TCU AG (Developer)

UltraUpload is run by a multidisciplinary team of technologists, business leaders, and strategists.

- The main business field of the Developer is currently software development:
- p2p-Software (Live-TV over real time p2p),
- Web hosting (maintaining over 150 servers in 6 nations worldwide (USA, Switzerland, Germany, Rumania, Czechoslovakia, Spain).

- Web interfaces (coding portals with 500K+ user)

In the past TCU AG was always on the cutting edge of technology:

- Founded with the first TV ad blocker worldwide (won against largest broadcaster at the highest german court BGH)
- Tvoon-Media-Center (2 years before Microsoft but with tv ad blocker)
- Own Android media box with tv ad blocker (www.fernsehfee.de)
- First real-time streaming of TV/Video with peer to peer technology (2 years ahead of bittorrent, flash based, no additional software required, now market leader, Html5 based). Serving up to 100.000 spectators with 1 average server, saving billions of bandwidth costs for broadcasters.

In particular, the Developer has created and operates the Storage and sharehoster platform www.Ultraupload.io since 2017.

Our organization has:

A fully-functional storage network which includes the business partnerships necessary to execute this effort at scale
A proven ability to execute technical and business projects,
A viable business that generates revenue at a $1 million in annual run-rate,
A track record of being efficient with the use of our funds
A defined framework for the distribution and management of the Snowden-Coin.
We are prioritising the development of systems that enable transparency in UU operations and in the release of funds.

Details about how UU solves the problems of file sharing industry

Files as Set of Encrypted Chunks

A Chunk is a portion of an encrypted file to be stored on this network. Chunking has a number of advantages to security, privacy, performance, and availability. Files should be encrypted client-side before being Chunked. The reference implementation uses AES256-CTR, but convergent encryption or any other desirable system could be implemented.

This protects the content of the data from the storage hoster or farmer, housing the data. As the set of chunks in the network grows, it becomes exponentially more difficult to locate any given chunk set without prior knowledge of their locations. This implies that security of the file is proportional to the square of the size of the network. Chunk size is a negotiable contract parameter. To preserve privacy, it is recommended that chunk sizes be standardized as a byte multiple, such as 8 or 32 MB. Smaller files may be filled with zeroes or random data. Standardized sizes dissuade side-channel attempts to determine the content of a given chunk, and can mask the flow of chunks through the network. Chunking large files like video content and distributing the chunks across nodes reduces the impact of content delivery on any given node. Bandwidth demands are distributed more evenly across the network. In addition, the enduser can take advantage of parallel transfer, similar to BitTorrent or other peer-to-peer networks. Because peers generally rely on separate hardware and infrastructure, data failure is not correlated. This implies that creating redundant mirrors of chunks, or applying a parity scheme across the set of chunks is an extremely effective method of securing availability. Availability is proportional to the number of nodes storing the data.

The Chunking Process

1. Files are encrypted.
2. Encrypted files are split into Chunks, or multiple files are combined to form a chunk.
3. Audit pre-processing is performed for each chunk
4. Chunks may be transmitted to the network.

UltraUpload in its current version is build as client-server database, and is planned to convert into a distributed hash table (DHT) and now is starting to be developed as blockchain based database, in order to add full transparency to all participants.

It is important to note that chunks are not stored in the hash table. The hash table may be used only as a store for data location information, or other purposes.

As such, each Node ID in the UltraUpload network II is also a valid Ethereum address, which the node can spend from.

Contract information will be stored in the Blockchain, which may allow some outside verification of relationship terms.

Payment

UltraUpload is payment agnostic. Neither the protocol nor the contract requires a specific payment system. The current implementation assumes Snowden-Coin, but many other payment types could be implemented, including BTC and Ether. The reference implementation will use Snowden-Coin micropayment channels.

Micropayment channels allow for pairing of payment directly to audit, thus minimizing the amount of trust necessary between farmers and data owners. However, because data storage is inexpensive, audit payments are incredibly small, often below $0.000001 per audit. Snowden-Coin allows much more granular payments than other candidate currencies, thereby minimizing trust between parties. In addition, the mechanics of micropayment channels require the total value of the channel to be escrowed for the life of the channel. This decreases currency velocity and implies that value fluctuations severely impact the economic incentives of micropayment channels. The use of a separate token creates a certain amount of insulation from outside volatility and Snowden-Coin‘s large supply minimizes the impact of token escrow on the market. New payment strategies must include a currency, a price for bandwidth (not storage like Storj.io), and a payment destination. Micropayment networks, like the Lightning Network, Implementation details of other payment strategies are left as an exercise for interested parties.

Snowden-Coin (TM)

Snowden-Coin will be created in a token generating event (TGE). Its details, terms and conditions, and detailed schedule will be announced later in this document.

Store data into the blockchain?

To be sure, you can already store data in the blockchain. There are also decentralized file storage apps such as IPFS, Swarm, and Storj, and databases like BigchainDB are starting to emerge.

But: The chain is not designed for high throughput or low latency, it does not scale, and storage is expensive. What is needed is a natively decentralized data backbone as a complement to decentralized apps. This real-time data backbone will be the missing link, and the link that we want to help provide. The infrastructure we create consists of a technology stack which helps connect and incentivise computers in a global peer to peer (P2P) network. This is a network which provides low latency, robust and secure data delivery and persistence, and all at scale. Đapps of the future are fuelled by data, and our mission is to make sure that the data keeps on flowing.

For storage with much more granularity and querying features, decentralized databases such as BigchainDB are emerging. A solution like this is a likely candidate for storage in the UltraUpload Network. However the landscape is changing rapidly, and we won’t commit to a specific storage solution at this time.

Our stack is built on a decentralized transport layer.

Apart from greater robustness, resilience and fault tolerance, decentralization facilitates openness, transparency, and community building. The power over data is not with large corporations like Google, Amazon, Microsoft, and IBM. The network consists of a multitude of data producers, data consumers, and message broker nodes in between. We believe that sustained growth of the blockchain community will be facilitated by having a good usability layer in place.

We foresee an ecosystem where there are several usability platforms and tools available. The existing UltraUpload platform already implements some elements of the usability layer, with more functionality being added in the coming months and years. The aim is to reach a stage where you can build and deploy a useful and functioning data driven smart contract in minutes.

The UltraUpload Vision

The future of the decentralized web is dependent on the next generation of decentralized financial infrastructure. In order to sustain future growth and facilitate the influx of new members to the space, it’s important to create a financial base layer that is capable of handling such influx.

UltraUpload vision is to considerably lower the barrier of entry to the token economy for service Publishers and end users alike by offering a superior experience. To that end, we aim to introduce an innovative and robust blockchain architecture that addresses the above issues. Our goal is to design a highly performant and scalable infrastructure.

In addition to the fact that this system creates new revenue streams for everyone in the community and helps to grow the network, it enables also a natural increase in the value of Snowden-Coin due to its limited supply.

There is a reason why Storage persisted throughout societies for hundreds of years—We bring it to the next level with UU.

Additionally Incentives

The implementation allows for multiple separate incentive models in pool-based way. One example that will be included on the platform UltraUpload.io is publishing related rewards. Other than the general reward System (which aims to reward all Coin Holders), the publishing related reward aims to incentivize the downloaders of a

specific platform. Therefore, it may look different on every platform. The general aim is to reward the downloaders according to their amount of Snowden-Coin used, so only downloaders that take part in a pooling will receive Snowden-Coins, others will not. Such reward is paid out not only to downloaders of that specific site but to all downloaders on that platform depending on their usage of Snowden-Coin on this platform. This is an incentive to keep Coin Holders from hoarding as it rewards them for actually using their Snowden-Coin on the market.

Current state

The platform provides a functional starting point, but to reach full decentralization it must be refitted to run in a decentralized container and use the new UltraUpload Network layer for message transport. We do not start from scratch. There's a functional and highly advanced platform in place for creating data pipelines, visualisations and off chain processing. The software is built for the cloud environment with scalability, integrations and fault tolerance in mind. The current platform is functional, scalable, and in live use by corporate customers. Most of the components do not, however, translate directly to the new world. Storage needs to be decentralized, messaging, pub/sub functionality, and data monetization and encryption built into the transport layer, and the peer to peer network established along with node coordination and incentivization. The roadmap of how to do these things is presented in the next sections.

Our technology stack is layered and modular, and it is built on a decentralized transport layer. There is a peer to peer network consisting of incentivized broker nodes. The network hosts a publish/subscribe mechanism and supports decentralized storage of encrypted events. Throughput scales linearly with the number of participating nodes.

UltraUpload is part of the computing revolution where monolithic solutions are being superseded by decentralized computing alternatives.

There's a power transfer taking place from corporations and enterprises to individual citizens, autonomous agents, apps, and machines, leading to improved privacy,

efficiency, resilience, and fault tolerance, and ultimately higher welfare for the good denizens of the connected society.

Goal for UU‘s blockchain: unstoppable data sharing

UltraUpload delivers unstoppable data to unstoppable applications. It is the real-time data backbone of the global supercomputer. It is a decentralized network for scalable, low latency, untamperable data delivery and persistence, created by the Snowden-Coin.

Anyone — or anything — can publish new data to data streams, and others can subscribe to these streams to power Đapps, smart contracts, micro services, and intelligent data pipelines.

To incentivize user participation in the network, there’s a built-in mechanism for data monetization.

Data streams, smart contracts, and decentralized computing resources can be interconnected in a low code environment using high level building blocks. A revolution is taking place where centralized cloud services are one by one being superseded by tokenised, decentralized solutions.

Golem, for example, replaces Azure Virtual Machine, and IPFS replaces Azure Blob Storage.

Inspired by the above stated observations, the Developer has created a system that could lead to a solution for some of the most pressing issues.

Here‘s where the blockchain technology comes in place.

The system relies on an innovative system that makes it possible to revolutionize the monotonous storage market and to bring back the lost thought of Sharing.

The blockchain allows for the creation of smart contracts that run business logic autonomously in the blockchain.

These smart contracts enable secure and reliable processing and the transaction structure behind them. Payouts are processed automatically by the smart contract on the blockchain.

UU serve as the currency for these exchange.

All UU transactions as well as all downloads created are publicly verifiable, viewable, resistant to counterfeit, and not subject to the risk of institutional processing. Additionally, the decentralized model reduces transaction and operating costs which gives the UU Network not only an advantage over centralized competitors in safety and transparency but also enables the Developer and other Publishers of online Storage to run on lower margins than usually seen on traditional Storage Publishers.

Technology-Competition of filesharing

*Technology-Comparison of Benefits

	Pro	Con
Peer to Peer (P2P)	No single Point of failure	Not anonymous = high risks, slow, speed and availability limited by upload and users
+ Client-Server (CS)	Privacy, Highspeed, Availability	Single point of failure, censorship, malware
UU= Hybrid (P2P+CS)	Privacy, Highspeed, Availability, legal, anonymous, no malware, censorship resistant	

*File-Sharing Feature Comparison as of 6/2018

	Bittorrent	Classic Client-Hoster	Central Hoster	Pure P2P	Mega Upload Bitcache/ MegaNET	UltraUpload.io
Typical Website	Vuze.com	Hulu.com	Megaupload, Dropbox, google-Drive	IPFS, Filecoin, StorJ, Maidsafe	k.im	Any Website with UU-Links
Uploader-Privacy	No, cause IP & content visible for 3rd-Party & service	No, visible to Hoster	No, visible to Hoster	No, visible for 3rd-Party and service	IP + content visible to Hoster	Only IP visible to Hoster, who does not know file content
Upload/DL/Stream-Speed	Middle	Fast	Fast	Very slow	Very fast	Ultra fast
Revenues for Uploader/ Publisher	No	Per contract	No	No	Yes , Bitcoin	Yes, all online Payments
Steal Uploader Revenues?	-	No	-	-	Yes, reupload content	No, first uploader participates for lifetime
Downloader Privacy	No, IP visible for 3rd-Party and service	IP + filename visible to Hoster	IP, Account, filename visible to Hoster	No, IP visible for 3rd -Party and service	IP + Pay-ID visible to service	IP only visible to Hoster (if w/o proxy)
Hoster Privacy (Target for Takedown/ censorship)	No	No	No	No	No	Yes, no files, only hidden chunks
Resell Links by avg. User	No	No	No	No	No	All user can
Double Content Protection	No	No	No	Yes	?	Yes
Privacy against ISP Internet provider	No	No	No	Yes, P2P traffic visible	?	Yes, crypted chunk-DL

MegaUpload vs. UltraUpload;

We decided to go different ways during the design of our networks:

- UU does not bundle metatext/Descriptions, pictures to the content. In order to deactivate fakes faster and more secure, we allow user comments for each content. The community can add as much meta information (crosslinks/ bundlings) as necessary to any given hash-id/unique file.
- Download and reupload of content under different id and different beneficiary of payment is not possible in UU. This means a lifetime revenue guarantee for the first uploader, first come, first serve.
- In UU not the uploader sets the final price, its the publisher (website owner), where a link is published in order to adress different type of markets. However the uploader will participate on any download with the minimum price he defines.
- Reassigning content-payment target to 3rd party (copyright holder/claimer/take down abuser/copyright trolls) is not possible for technical reasons. There is no human interaction in the whole process, no single point of human legal decision for different legislatives. Once a file is dumped in the very deep space of IPFS-peer to peer cloud storage, its public for anyone to use. About Details of deleting or revoking files within the IPFS system see there.
- More differences are likely as both systems are under development and can not yet be compared seriously.

Relevant articles:
http://www.torrentfreak.com/kim-dotcom-wants-k-im-to-trigger-a-copyright-revolution-170831/
http://www.//torrentfreak.com/megaupload-2-0-will-outsource-file-hosting-and-prevent-takedown-abuse-161025/

How to participate: About the Token and the ICO

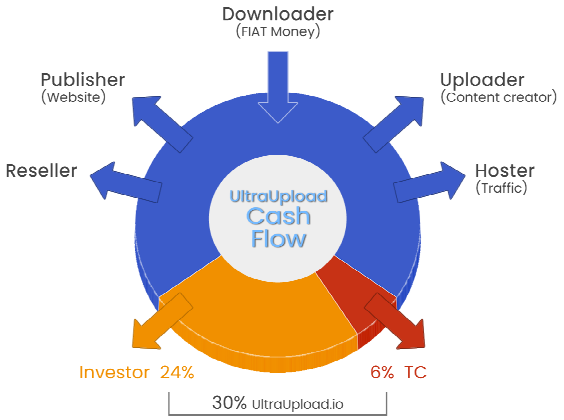
The Snowden-Coin: 80% of our UU revenue paid back

UU shares 80% (!) of its revenues to the coin holders. Compare this to other tokens

This are in total 24% of all website revenues, since TC as operator receives 30% (Rest is for uploader, publisher, reseller and hoster). 24%=80%*30%
UltraUpload represents an unprecedented opportunity to create a strong and independent free press/sharing society. That value is distributed among the participants, investors, and co-creators within the overall UltraUpload economy based on their levels of contribution, all tracked in real-time on the blockchain.
The Snowden-Coin will serve as a revenue-generating mechanism for the UU network.

Provably Fair Revenue Sharing

Although UU service needs to have some centralized elements when it's launched, we strive for decentralization and minimizing the need of trust. All Snowden-Coin trades are publicly reported. UU takes this one step further; trade data will be uploaded to Swarm Peer-to-peer storage ensuring the data availability.
To verify the trade data integrity the users can check that trades they make appear in the published trade data. Furthermore, the completed trades get a sequential trade id that ensures there are no gaps in the trade data.



Dividends are paid out once in a year.

Based on the published trade data, UU loads the ETH amount of dividend payout into a smart contract. The smart contract contains a table of token holders taken as a snapshot of the dividends declaration time.
The token holders then proceed to call the smart contract function pay_Dividends() from the wallet where they held the tokens at the time of a snapshot. The smart contract then will proceed to pay the dividends to the wallet.
This way all dividends get paid out fairly to the token holders. UU researches real time dividend payouts as micro transactions. However, as the writing of this, Ethereum network does not yet scale to such small, high volume, transactions. This will become option when Ethereum network receives sharding [1] and lightning network capabilities[1].
[1] https://github.com/ethereum/wiki/wiki/Sharding-FAQ
[2] https://github.com/raiden-network/raiden

Why is UU launching a Token Crowdsale?

Although we have some important shareholders, we want to offer an opportunity to everyone to become involved in the early stages of this exciting project, creating an opportunity of profit and being part of a revolutionary movement. UU works because people use it to buy and sell their assets. This is what makes UU so unique - the more the platform is used, the more revenue is made, which means more profit back to the coin investors.
Note that we pay out dividends in Snowden-Coin. Since most of our revenues comes in as FIAT-Money, we constantly have to buy back Snowden-Coins in order to pay out the dividends as Snowden-Coin. This constant Buy-Back program will stabilize the exchange rate and so the value of Snowden-Coin against FIAT money.
2. If the rate of SC is low (what we don`t hope!), we can buy more coins and drop more coins for free to compensate investors. If the rate is high, we drop less coins. We buyback daily or monthly at best rates (low rates first). So we stabilize the rate.

To achieve that objective, we developed a token approach:

*„General Reward“:

The General Reward is the bonus for all Coin Holders. Every Download must pay out at least 30.00 percent of the Content-Price to UU as General Reward. This is guaranteed by the Download Interface. The Revenue smart contract calculates how much of the General Reward each Coin Holder should receive. This is not an equal distribution. It is weighted by the amount of UU the Coin Holder owns. The 30%-Revenue-Part for General Reward (80% of 30% = 24% of all website revenues) will be recalculated immediately after a Download ended and displayed on the website. So every Snowden-Coin holder can see the amount of revenue participation and the amount of bought-back coins, so he can calculate the extra value one can expect at the end of the year. Watch that before you sell a Snowden-Coin.

The Snowden-Coin is currently designed as a decentralized ERC20 token on the Ethereum blockchain allowing for the exchange and interchange of a point-based pooling system with the purpose of Storage. The Snowden-Coin will be used as a reward and incentive token for an investment. All Coin Holders will be rewarded for holding a Snowden-Coin with a general reward mechanism.
The reward is 80% of the internal UU revenues (which are 30% of what a downloader pays without VAT).

Participate on UU success with the Snowden-Coin

Project Estimations/Goals/Coin Values yellow= personal Estimations

Average Price per DL after VAT	1,90 €	A
UU-Revenue Share	30%	X
Snowden Coin-Participation	80%	Y
Coin-Dividend from User price	24%	Z=X*Y
Number of Snowden Coins Mio.	24	S

Goal-Level (see Roadmap)	*Year 1*	*Year 2*	*Minimum G*	*Goal 1*	
Downloads per second	1	3	10	20	C=Estimation
Mio Downloads per year	1,50	4,51	15,02	30,03	D=C*3600*24*36
System Revenues (Mio/a)	2,85 €	8,56 €	28,53 €	57,07 €	R=D*A
Coin Dividend Mio/a	0,68 €	2,05 €	6,85 €	13,70 €	T=R*Z
Annual Dividend per Coin	0,03 €	0,09 €	0,29 €	0,57 €	AD=T/S

Personal Bid based on Sales-Price of 1€/Coin and personal interest expectation:

Value of Coin at 3% interest	0,95 €	**2,85 €**	**9,51 €**	**19,02 €**	V3=T*100/3
Value of Coin at 5% interest	0,57 €	**1,71 €**	**5,71 €**	**11,41 €**	V5=T*100/5
Value of Coin at 10% interest	0,29 €	0,86 €	**2,85 €**	**5,71 €**	V10=T*100/10
Value of Coin at 50% interest	0,06 €	0,17 €	0,57 €	**1,14 €**	V50=T*100/50
Annual Project Means	0,17 €	0,51 €	1,71 €	3,42 €	P=(X-Z)*R
Cover Costs? (1 Mio)	insufficient	insufficient	sufficient	**sufficient**	
Incentive to reach company goals	HIGH	HIGH	reached	**success**	

Scale-Estimations:

Average DL per User per Month	4,00 €	ARPU			B
Required Userbase (Mio)	0,03	0,09	0,31	0,63	E=D/(B*12)

Note: Based on above personal estimations (yellow fields) all values are higher than minimum Bid Values in our auction system (stating with 0,565€/coin in Pre 1 up to 1,13 € in main sale).

Note: Own calculations with personal estimations can be done with above table on the auction website (Step 1)

http://ultraupload.io/?go=coinauction&ref=d9446802a4

PLUS Extra interest boost:

above calculations are based on 24 Mio. Coins. In the first year we only offer a maximum of 8,4 Mio. Coins. 15,6 Mio. coins are **not** circulating and so nearly **triple** the revenue reward distributed to the coins.
2019: max. 12,4 Mio. Coins ,
2020: max. 16 Mio. Coins.
(All values based on 0 coins used from Team/Advisor/Company-Coin-Pool (8 Mio.). Usage/circulation can not be predicted.)

Coins circulating min	Coins circulating max.		Extra interest boost min.	Extra interest boost max.
8,4	16,4	End of 2018	186%	46%
12,4	20,4	End of 2019	94%	18%
16	24	End of 2020	50%	0%

Different to today‘s Storage system, the Developer has created a fully transparent system allowing a natural expansion by its own community on top of the UU Network. This new decentralized model gives back a part of the rake to the community to let users participate in UltraUploads success.

For an second increase in above calculated interest rates see page 38.

ICO Terms and Details

Four Pre ICOs:

There are 5 different waves of TDE. 4 Pre-ICOs and 1 Main (ICO).
18 Mio. of Token are for sale (69%), 8 Mio. stay for the Company for several purposes, see token distribution.
Nevertheless the majority of tokens are for sale, since UU project requires funds for developing the last piece of software, the blockchain for UU databases. This transaction databases iare currently hosted on a central server. By transfer of UU-databases into the peer-cloud (block chain), the network itself will become unstoppable and can serve as a disruptive, robust, immutable, censorship free basic web storage infrastructure service.

This presale is aimed to raise funds to advertise and market the main ICO.
All Pre-ICOs have an exclusive bonus rate for the entire period.
Minimum transaction amounts vary for each ICO.
Contract will distribute coins/tokens immediately after end of main ICO.
Pre-ICO goal: We are planning multiple approaches of digital marketing such as banner ads, press releases, signature campaigns and social media.

Main ICO

Our ICO structure will perform an immediate exchange of Snowden-Coin from your contributed Ether or FIAT after end of main ICO.
Emission rate: No new coins will ever be created, no coins will be burned ever.

Bonus Program during ICO:

A variety of tiered bonuses are available during the ICO period depending on the number of Snowden-Coins sold. This essentially means that the Pre-ICO phase begins with a 50% bonus but highest minimum transaction amount of 2000€. This shall attract professional user first. They shall judge the project first, so we can better adjust the project in order of fairness for the average user.

Bonus rates are offered for every period of the pre ICOs:

	Round 1 = 2018 Sale (limited to 8 Mio.€) due to german regulation § 3.2.6 WpPG						
	Pre Sale 1	Pre Sale 2	Pre Sale 3	Pre Sale 4	Main Sale	Total Round 1 (2018)	
Share of total coins for public sale	10%	5%	5%	10%	22,50%	53%	
Coins Mio.	1,6	0,8	0,8	1,6	3,6	8,4	max (if sold with MinPrice)
Discount	**50%**	**30%**	**15%**	**10%**	**0%**		
Min Bid Price p. Coin	**0,56 €**	**0,79 €**	**0,96 €**	**1,02 €**	**1,13 €**	1,00 €	AVG
MinMeans Mio.	0,90 €	0,63 €	0,77 €	1,63 €	4,07 €	**8,00 €**	**Limited on 5 Mio. € in EU**
Min. Transaction Euro per User	2.000 €	1.000 €	500 €	200 €	100 €		

Note, Extra Boost II:

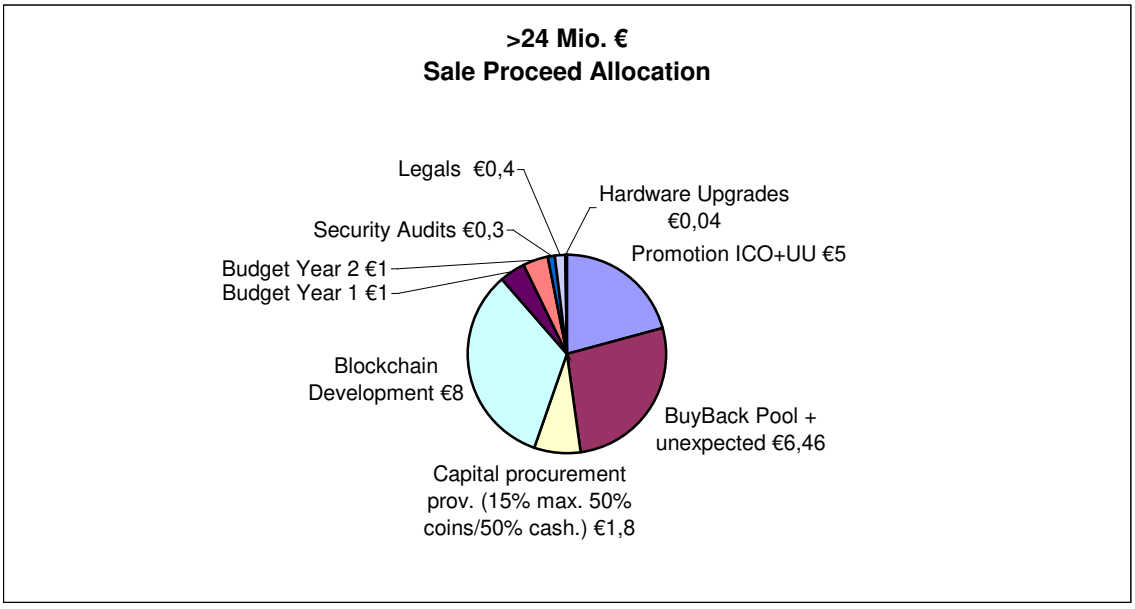
for legal reasons (Art. 3.2.5 WpPG , german securities laws), the total means collected are limited to 5 Mio. € within the European Economic Area for 12 month after start of first sale. That's why the number of coins sold in 2018 may be lower than 8,4 mio. coins. This may happen if coins are sold for higher prices than minimum price or the 5 Mio. € limitation is reached and no or little sales from outside european area. This will again increase the interest rate of 2018 and following years dividends for the investors benefit.

Softcap: Minimum goal 1 Mio. €

The different funding goals and targets shall enable us to develop the UltraUpload chain to different aspects and scale the team to a bigger size. It is important to note that the idea of UltraUpload is robust in itself.
Reaching the highest funding goal would enable us to not only develop the proposed features, but also bring the network to a whole new level with partnerships.
We have set a minimum funding goal for the crowdsale to **1 Mio. €.** If the minimum goal is not set, full refunds will be made.
Distribution of Snowden-Coins will happen instantly after the end of main ICO and corresponding amount is received and the purchase contract has been concluded.

Coin distribution

Here is a breakdown on where all coins will be:



Sale Proceed Allocation	**Euro**	%
Promotion ICO+UU €5	5,00 €	20,8%
BuyBack Pool + unexpected €6,46	6,46 €	26,9%
Capital procurement prov. (15% max. 50% coins/50% cash.) €1,8	1,80 €	7,5%
Blockchain Development €8	8,00 €	33,3%
Budget Year 1 €1	1,00 €	4,2%
Budget Year 2 €1	1,00 €	4,2%
Security Audits €0,3	0,30 €	1,3%
Legals €0,4	0,40 €	1,7%
Hardware Upgrades €0,04	0,04 €	0,2%
	24,00 €	100%

A maximum of 20,8% of the total supply of coins will be given to promote the product via multiple forms of digital marketing and development and bounties.

Tokens will be paid out towards costs of sales, storage and promotion of the ICO.

- For Marketing and Bug Bounty: Tokens will be rewarded to influencers participating in the social media campaign and code auditors.
- For Advisors: Tokens will be rewarded to members and advisors who are making this project possible.
- Team, founders and shareholders will share tokens, for all of development efforts creating and testing the technology and building a broad community of content creators, advertisers, publishers and retailers over the last years and the provisioning of such technology, network and know-how to the Association.
- Pre-Sale & TDE: will be made available in consideration of member contributions during the pre-sale and TDE. The rest will be available to the public.
- Reward Engine, Partnership & Adoption Reserve: The reserve will be allocated gradually in weekly instalments to developers, designers, content creators, publishers and partners who demonstrate a clear intention and ability to develop the platform and promote the protocol, as further indicated in the whitepaper.

At the end of the Initial Coin Offer, token creation will be closed permanently.

Limited Token Issuance

The number of 24 Mio. Snowden Coins is limited and no further coins/tokens can be created due to the strict laws of smart-contracts.

Rules of participation in ICO

There are strict rules and precautions to follow while participating within the Snowden-Coin ICO.
Before contributing to the ICO, please make sure you have read and agreed to our “crowdsale agreement” document.

Our contract follows the ERC20 standard Ethereum token code, so Snowden-Coin can be stored in any compatible ERC20 wallet.

TDE, token distribution event

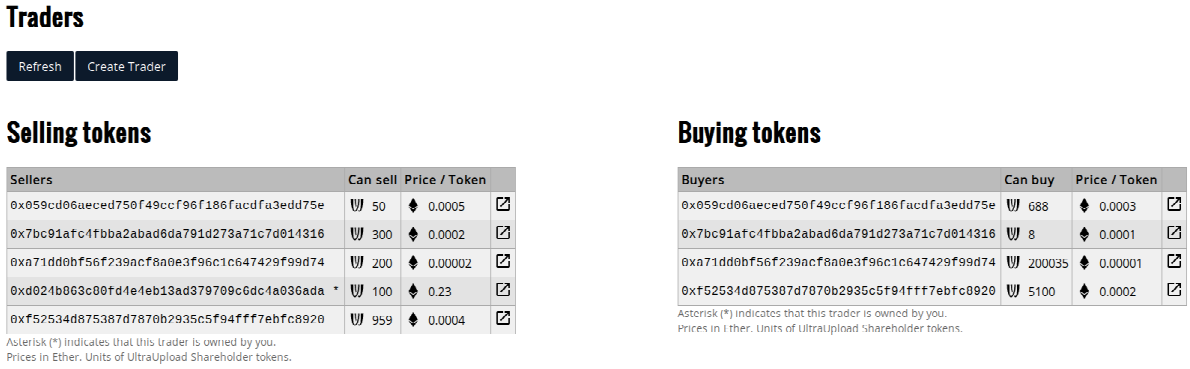
To finance the blockchain development roadmap, we will conduct several token distribution events .
Proceeds of the Snowden-Coin token distribution event will be used to fund UU operations including the development of the blockchain-powered projects. Upon conclusion of the sale, the distributed Snowden-Coin will constitute the entirety of the available liquid supply.
This pre-registration process may require **proof of identity** and **residence** for larger purchase to ensure compliance at the time of the token distribution event. Further announcements regarding the timing and structure of the sale will be communicated through the ICO webpage and e-mail list.

Exchanges:

We are currently talking with a few exchanges and plan to be listed on at least one major exchange shortly after the finalization of the ICO. Since the Snowden Token is an Security Asset it is target of special regulation rules.
During this period, individuals can most likely purchase tokens through the exchanges at **https://orderbook.io** and **https://openbazaar.org**

Build in Exchange:

The Snowden-Coin has a very rare and special feature: A transparent exchange is build into the blockchain itself! You can watch all bids, execute sell/buy orders directly in the blockchain of the Snowden-Coin! This makes Snowden-Coin complete independent from 3rd-Party exchanges.



We may agree to work with additional exchanges in the future.

Blacklisting of certain countries:

Buyers from certain countries will be prohibited from participating in the Snowden token sale due to regulatory restraints. We intend to publish the final list of prohibited countries at least two weeks in advance of the ICO date together with the General Terms and Conditions of the token sale itself.

Post-ICO Liquidity

We expect very high liquidity of the Snowden-Coin cause all revenue shares are paid out in tokens. In order to fulfil this payment, we have to constantly buy back tokens. The higher the revenues on the website, the higher the buyback.

All fiat currencies will be supported around the world, via an inbuilt KYC process. From the comfort of their home, and having no previous cryptocurrency wallets or having ever purchased a token before, investors will be able to simply invest via their

existing financial channels (including credit cards, debit cards, wiretransfers, EFT, and so on). For those that prefer to invest using cryptocurrencies, these cryptocurrencies are accepted as well: BTC, ETH, LiteCoin.
Accepted currencies: Snowden-Coin will be sold for ETH, BTC or via USD/€ from a credit card or bank wire and a lot of other payment systems. For details see payment website.

Register for the ICO

Due to legal requirements, Potential investors have to register and accept the terms of the UU ICO before they invest. For this registration, a valid email address is required. After a successful registration, the provided account is whitelisted for the crowdsale and the user is authorized to invest.

Distribute the token

After the ICO has finished, the ERC20 contract initialises itself with the UU balances, which were distributed through the crowdsale. Now the UU balances for all participants are available for the users who participated in the ICO.

Use of funds

The company has a clear plan for the use of funds received in the token sale event which will facilitate company growth, contribute to the greater blockchain community, and encourage stability and value for the Snowden-Coin.
All planned use of funds are based on current exchange rates. The Company is not responsible for variance in the value of the underlying cryptocurrency. Should the price fluctuate, use of funds will adjust proportionally.
Operation of UU, as an already functional business and dl network, will require funding to continue operations as-is while blockchain-powered improvements to its technology stack are developed.
The use of proceeds will be managed by the Board of Directors of the Company. The Board will approve an annual budget for each financial year.

Usage of coins (Mio €):

ICO Means Distribution:	%	Mio €	
Promotion ICO+UU	20,8%	5,00 €	
BuyBack Pool + unexpected	26,9%	6,46 €	covered by Company Reserve, see below
Capital procurement prov. (15% max. 50% coins/50% cash.)	7,5%	1,80 €	
Blockchain Development	33,3%	8,00 €	
Budget Year 1	4,2%	1,00 €	
Budget Year 2	4,2%	1,00 €	
Security Audits	1,3%	0,30 €	
Legals	1,7%	0,40 €	
Hardware Upgrades	0,2%	0,04 €	
	100%	**24 €**	
Estimated Market Price		**1,50 €**	
Reserve Company Coins ,		0,45 €	
		24,45 €	

USE OF PROCEEDS

- Marketing: Attracting as many users, influencers, publishers and brands as possible will be essential to the protocol's growth.
- Business Development: The key to the UU economy is the brands and enterprise involvement. Thus, a part of the budget is required to educate them on the protocol's key benefits.
- Legal: The Association will endeavour to stay at the forefront of compliance and regulatory matters in key member jurisdictions.
- Administration: Annual audit by Maltese experts, accounting, office expenses, etc.
- Miscellaneous: Budgeted in case of unexpected circumstances.
- Developer Community: We believe that an active developer community is a key asset for any blockchain project. As such, we want to invest into our community. Depending on the ICO's outcome, this might include: in-depth multimedia documentation, live events, local hubs in major cities across the

globe, interactive training program (UltraUpload Academy), bespoke digital community infrastructure.

Blockchain Development

Blockchain: The kernel of development of UU 2.0. Transition of existing and nearly 100% secure platform into an 100% unstoppable censorship free filesharing tool without the last single point of failure.

The core focus of the Snowden-Coin token issuance is the development of blockchain-powered storage technologies. This may include, but is not limited to, the development of a blockchain-powered storage network which executes the matching and delivery of units, an analytics platform to evaluate performance and pricing of units, a method to evaluate publisher traffic for the purposes of avoiding fraud in storage, technologies to improve storage performance (including latency) especially over a blockchain, and billing systems. These are ambitious projects that will require the hiring and training of blockchain specialists.
As has been noted earlier in this document and elsewhere, UU is committed to contributing to the blockchain community, sharing resources and learnings along the way. A portion of the development budget may be used for the publishing of our learnings and for those general purposes.
Features new to the sharing-world make our platform unique. At UU we are targeting professionals and newcomers alike. **Customer security is extremely important to us. As customer we understand all participants, as Hoster, Publisher, Uploader and Downloader and Investor or Referrer.**
Protocol development: The Association will need to hire the most talented engineers, product managers, economists and other team members to ensure the fulfilment of the vision presented in this paper.

Security Testing:

Security is crucial for us. We will do everything within our power to make sure that the UltraUpload architecture adheres to the highest security standards. We intend to offer

a **bug bounty program** in the future to reward the community for making the network more secure.

Miscellaneous:

Includes any unforeseen costs at this time. UltraUpload will act as the main entity responsible for the development of the UltraUpload blockchain and the infrastructure outlined above.

Assange / Snowden Fond:

The main goal of UltraUpload is to develop an innovative technology for the community.
After the envisaged release of the completed UltraUpload chain, the UltraUpload legal entity will strive for building further ventures on top of that architecture.

Who does it: The Companies (ICO /Developer)

Summary of the Developer Organization TCU AG Corp.

TCUAG Corp. is a for-profit corporation founded 1998 by Mrs. Bauersachs and Mr. Ciburski.
TCU AG („the developer“) is a stock listed company on german regular market since 2000. The share (WKN) is 745420. TCU is pursuant to german laws, registered with the Commercial Court of Koblenz HRB Koblenz 5491, VAT-ID: DE 193985560, LEI: 391200KETHWVAXQ6CJ61
TCU = “The Developer” has its corporate seat at “Im Kimmelberg 2 –4” 56075 Koblenz, Germany. The Developer has developed the UU 1.0 Network and UU website, both as described in this Whitepaper.
TCU Website = www.telecontrol.de

TC is well known in german media industry due to its successful 5 years lawsuit against major german tv broadcaster RTL/Bertelsmann. In June 2004 TC has won against RTL at highest federal court (BGH) and could market first real-time adblocker/filter worldwide (no ads during zapping). In March 2005 RTL was judged to pay back all damages by its wrong temporary injunctions to TC. The legal battle against SKY (formerly known as Premiere) is still pending at European court level (copyright issues on first p2p real-time stream sharing, mentioned in New York Times, 2004).
Our aim as an organization is to change the online storage space.
TCUAG Corp., the UU network, and our developer team are uniquely suited for this opportunity.

TCU AG Germany, Koblenz: (www.telecontrol.de) The Developer Company

Track record of an innovative technology leader:

Live TV Ad-Blocking

• First live TV ad blocker Telefairy 1995-2001 (own set top box hardware)
• Android based STB (fernsehfee.de) since 2013
• 2016: Tizen / Android TV app, gatekeeper release pending

Anonymous and innovative payment / encryption systems

• First In-Page Micropayment system Microdollar.org in 2003
• Unique File-Encryption system (.otrkey), used over 42 million times
• 2015: Anonymous payment system coupon-cash.com (client-server based)

Experienced in scalability

• Since 2005 lead developer for middle-size offshore websites from scratch
• Maintaining more than 150 servers in 6 datacenters worldwide (USA, Switzerland, Germany, Romania, Czechoslovakia, Spain)
• 12 websites and more than 500K users, including payment and support
• Serving up to 1% of German web traffic

Faster to market

• In 2004 we were two years ahead of bittorrent in live streaming. Our flash based solution didn`t need additional software to install
• 2016: One of two companies worldwide supporting HTML5-P2P-Live-TV with VP9 codec

Persistent legal department

• Vital for disruptive game changing technologies.
• Sued by all three major German TV broadcasters
• Triumphed at highest German court (BGH) 6/2004
• Sued by major European Pay TV operator Premiere (now Sky) 2004, pending at European court
• 2005 claim for damages successful confirmed by court

• Highly experienced in european and international copyright law
• Reliable, over 23 years in business: - 1995 co-founded by the German government, later founded as stock corporation 2/1998, listed at FSE (Frankfurt Stock Exchange)

The Team

Petra Bauersachs, Born 1972, CEO
Trained and employed in the public service of her hometown Koblenz for 6 years, from 1995 until today: CEO and 25% owner of TC Unterhaltungselektronik AG.

Guido Ciburski, Born 1964, Director
Studied Business engineering (operations research, optimisation) at Karlsruher Institut für Technologie. The first computer procurement agency before the invention of the Internet (BTX), 1995 until today: Director and chief technology evangelist of TC Unterhaltungselektronik AG and 25% owner after IPO in the year 2000.

Together, Mrs. Bauersachs and Mr. Ciburski made TC to a Peer to Peer technology leader:
• First live TV transmission via peer to peer network Cybersky (reviewed in "The New York Times" 2004). Auto-scale without limits, serving millions of concurrent users without bandwidth costs. Licensed e.g. to schoener-fernsehen.com
• 2017: First 100% anonymous and unstoppable filesharing / link-selling system with UltraUpload.io
• 2018: ICO and a blockchain based transaction database for UltraUpload.io

Developer Team

DE : certified solidity developer
David has been programming since he was 9 years old (BASIC on a BBC Micro). As a Bachelor of Computer Science, he has coded for Android devices since Android Donut. Bringing extensive skills in Java. Along the way he has acquired many years of experience in the following (in no particular order): JavaScript, PHP, Firebase, NodeJS, Docker, Google Cloud Platform (AppEngine, Endpoints), CSS, SQL (Sqlite, MySQL, Room), Android technologies (Architecture Components, Room, Compatibility, ViewModel, Firebase, …), OAuth, and many more.

AP:
Arnold is a Peer to Peer professional, Backend Development, Full Stack Development, Software Architecture, Web Development, Javascript, WebRTC, ESLint, Code Quality, Networking P2P, Node.js, Express.js, Angular.JS, Backbone.js, Git, MySQL, PostgreSQL, MongoDB, Bash, Nginx, Coffeescript, CSS, Heroku, HTML, Grunt, Socket.io, Mocha, WebRTC, Stylus, React.js, Redux, ffmpeg, Video encoding, Aws, Google Cloud, Docker, QT, C++

BR:
Bernie has years of experience in programming and maintaining websites using PHP, HTML, CSS and Javascript (AJAX) combined with a MySQL database. He is constantly designing and creating new solutions, and has an eye for problem solving.

SZ:
15 years experienced in HTML, CSS, JS and PHP professional. He created the front-end for former Germany's (if not worldwide) leading Peer to Peer Live TV with innovative socket based player integration.

TH:
Lead developer and administrator for maintaining more than 150 servers in 6 data centers worldwide (USA, Switzerland, Germany, Romania, Czechoslovakia, Spain). For some years, his work was responsible for 1% of all german web traffic. Network / server administration, Linux server installation + configuration (Apache2, MySQL, PHP, Perl etc.), Bash-scripting, Video/ TV recording and encoding (FFmpeg).

DG:
Chief front-end developer. PHP, Java, Delphi. HTML, CSS, JavaScript, MySQL professional. For a list of his created websites see TC history above.

KL:
Programming in VC++ and Java for Windows, Ad Management and Helpdesk, Bank account management, customer support and supervising payment systems. He is fluent in German and Russian.

Board

Thomas Nachtigahl, Chairman of the board

Thomas studied business administration with a focus on international management, marketing and psychology. For 18 years he ran his own agency (taufrisch.eu) with well-known clients such as Beiersdorf, Mair Dumont (Europe's largest tourism publisher), Schwarzkopf Professional (international marketing In-salon), CFK Valley (the world's leading innovation network for carbon fiber research), EIT Raw Materials (the world's leading commodity sector network).
He was Interim CMO at EIT Raw Materials and is now at brandship.net, one of Germany's leading agents for packaging design. He is responsible for the development of brandship communications (own communications unit).

Dirk Peters, Member of the board
Started as CNC programmer then worked his way up to become Sales Manager of several real estate companies. Started his own real estate company in 2006.

Heinz Suhr, Member of the board
Mr. Suhr is a journalist and former German politician (Bündnis 90/Die Grünen). Suhr was press spokesman for the parliamentary group of Die Grünen in the German Bundestag from 1983 to mid-1990s. He ran unsuccessfully in the federal election in 1983 on the state list of the Hessian Die Grünen for a mandate in the German Bundestag. On April 1, 1985 became a member of the Parliament until 1987. Parallel to his press secretary function and also afterwards he worked as a freelance journalist in Bonn.

Advisory Board to publish 1.9.18
See website for latest list

Advisors

Peter Nussbaum
In 2013 Peter co-founded the "International Economic Senate / world economic council e.V." (https://www.wec-iws.de) and has since been Secretary General. Between 2003-2011 he was Federal Senator of the BWA e.V. Between 2011-2012 Member of the Board of the BWA e.V (Federal Association for Economic Development / Foreign Trade, Global Economic Network e.V.). From 1986 to the present he runs the Peter & Sibylle Nußbaum trade show stand procurement. He was managing director of EXPOart GmbH between 1993 and 2010 and managing director of EXPOEvent LTD between 2002 and 2006.

Wilfried Heuser
Tax consultant since 1985. A partner in a law firm between 1987 and 1999. The owner of a law firm with two nationwide offices since 2000. The chairman of an examination board for the Tax Consultant Association of Rheinland-Pfalz since 1987. Specializing in: optimal tax planning and structuring; tax criminal law; economy and business consultation. Support and consultation for differing kinds of company incorporations. Member of tax consultant associations (Steuerberaterkammer and Steuerberaterverband) in Rheinland-Pfalz. The tax consultant for TC-Unterhaltungselektronik AG since 2001.

Contact Details

If you have questions regarding this Initial Coin Offer, the UU Network or the UU, you may contact the Developer via email (bauersachs@telecontrol.de). For technical questions please contact ciburski@telecontrol.de

LEGAL STRUCTURE

Historic Income Statements of Developer Company TC, Germany

T€	2010	2013	2014	2016	2017
Revenue	599	948,9	957,9	1271,3	745,7
Profit	+220	-69,3	+102,5	+2,2	-7,6

For details see latest shareholder reports http://www.telecontrol.de/2017.html

Corporate Structure

Since founding 1998 until today, as of the day of this Whitepaper, Mrs. Petra Bauersachs and Mr. Guido Ciburski act as managing directors (CEO), having legal power to represent the Developer. Both hold the shareholder majority since 2000.

Compliance and regulatory environment:

Since starting UltraUpload, it has been a top priority for us to operate in accordance with intl. copyright law. Operating in one of the world's most trustworthy and detail-oriented jurisdictions translates to high standards to which we adhere. With the recent rise of scandals across the ICO space, we feel like a stable legal backdrop has become one of the most important factors when considering ICOs. **We choose the hard route instead of the easy one when setting up UltraUpload in Germany**.

We strongly felt that the other jurisdictions which have become standard for such projects are not transparent enough. While we acknowledge that the german jurisdiction is and will not be the only jurisdiction relevant to international token

offerings, budget considerations restrain ensuring full compliance with all the jurisdictions across the globe right from the start. This is a commonly known risk in the token economy. However, we will black list any jurisdictions which we are aware of prohibiting the offer of the initial Snowden-Coin.
Nevertheless, the offering of Snowden-Coin in jurisdictions not actively checked creates a risk for the successful implementation of the UltraUpload platform.
The developer company of UU kernel without blockchain stucks to Germany within a highly innovative Developing company (TCU AG) listed at Frankfurt Stock Exchange. Its 2 CEOs enjoy in total 46years of business experience in rapid tech markets, for details see Track Record above.

Legal structure of the Company (ICO /Developer)

	Developer Company (TC) est. 1998
Responibility for	ICO, Whitepaper, Investor-Relation, Coin-Distribution, Dividend payments, Development
Moneyflow	80% of revenues from UU to coinholder , 20% stay in company
Risks	ICO risks, Risk of customer relationship , Website DMCA*, Inprint, Domain-Owner, legal responsibility
Customer relationship	Address Database for Investors, Press, Referrals, Up/Downloader, Hoster, Publisher

*) UltraUpload.io will be compliant with the U.S. *Digital Millennium Copyright Act* (DMCA) legal framework and other applicable copyright frameworks, and herefore the Developer company will be registered as a Designated Agent for copyright infringement claims submitted in respect of any content augmented with the protocol's programmable smart objects.

Transparency:

Transparency is a key value of the UltraUpload team. All of us at UltraUpload believe that it is the only way to efficiently run such a project. Next to the release of tons of real-time online statistics, we also want every token holder to feel included in daily operations as much as possible. We plan livestream meetings, share new developments and include token holders in the development to the highest possible degree.
Once the infrastructure layer of the UltraUpload system is running as envisioned, the Developer TCU AG aims at being a regular participant in the ecosystem and using the UltraUpload architecture to build commercial applications on top of it.

ICO and UU 1.0 Marketing

Since the network is running and initial performance is stable, we will start our marketing and network growth efforts addressing end users of UU 1.0 (w/o blockchain). End user marketing campaigns launch same time as ICO in order to use awareness in both directions.

Alpha release of blockchain based database

Highest security standards are a critical success factor for UltraUpload. Once our ICO soft cap is reached, our development team will get to work and start building the UltraUpload infrastructure for UU 2.0 (with blockchain).

The alpha version of the UltraUpload chain is supposed to be released in 2019. Most likely, it will have limited functionality and be released mainly for testing purposes. For the UltraUpload platform to reach its Potential, adoption by the business ecosystem is critical. As soon as we approach the Alpha release, we want to begin with our business outreach activities.
Business community outreach is expected to begin September, 2018

Roadmap

Development of UU 2.0 (blockchain) begins January, 2019
As soon as the first releasable code is finished, we want to make it publicly available. On top, we then plan to begin to invest in building the developer community.
Developer community building May, 2019

Q3/17 Start of UU 1.0 (Client Server databases) project
Q1/18 Crypto currency Test-Snowden-Coin realized
Q9/18 ICO Start and Start promoting UU 1.0 (generating revenues)
Q4/18 end of year, after main ICO: first dividend payments (air drop of coins)
Q1/19 Closed Store - Implementation of UU 2.0 (blockchain) on our own platform
Q2/19 Official Release
Q3/19 Open api for other Storage Publishers
Q3/19 Releasing a variety of Download Templates
Q3/19 2nd ICO Round 2019 (higher prices due to higher revenues on UU)
Q4/19 end of year, 2nd dividend payments (air drop of coins)
Q4/19 Complete integration of decentralized downloads
Q3/20 3rd and last ICO Round

Roadmap

✔ Start of our project V1 (Stealth mode)	2017-04-01
✔ Crypto currency Test-Snowden-Token	2018-01-01

Upload ▾ Samples Participate ▾ Contact ▾ ICO ▾

Today	
2018-09-01	Business community outreach
2018-10-01	ICO start
2018-12-31	Coin Distribution
2019-01-01	Development V2 (BC)
2019-01-01	Closed Store - Implementation of UU 2.0 on our own platform
2019-04-01	Official Release UU V1
2019-04-01	Releasing a variety of Download Templates
2019-07-01	Open api for other Storage Publishers
2019-10-01	Complete integration of decentralized downloads

In addition to the Milestones stated above are the release of live streams in Q3 2018 and a Integration for Influencers to host private Downloads for their community in Q3 2018.

The roadmap is the responsibility of the Board of Directors of the Developer company. Monthly updates will be given on the website. The above are high-level highlights of the roadmap. A more detailed roadmap will be provided upon agreement by the Board.
The next two years will be busy. We are launching the Token Crowdsale. Gradually we will increase the functionality of UU into 2018, when we expect to implement a full launch of the UU Investment Fund.

Steps of market introduction

The UU Network will first be implemented and tested on the Developer‘s own platform UU 1.0 where UU will be exposed to an existing user base of over 500K user. From there on, the Developer aims to expand the UU Network rapidly and integrate it with other online Storage Publishers. The goal is to open up to everyone the possibility to create customized hosting and downloads that are run and executed over the decentralized UU Network.

Growing the UltraUpload Network

It is critical for UltraUploads success to establish and nurture a thriving ecosystem. While our platforms structure has all the ingredients to benefit from network effects - mostly centred around liquidity, low transaction fees and user experience - we are very mindful of the fact that it will take a focused, concerted effort to gain initial traction and reach a critical mass of ecosystem participants. Building an attractive, technologically advanced platform that fulfils infrastructural needs and offers significant improvements in user experience is integral to achieving this. Yet, it’s not going to be enough. Therefore, we plan to take dedicated measures to foster the establishment of an engaged UltraUpload community from early on - and grow it continuously over time. We outlined the UltraUpload ecosystem and its participants as we envision it going forward. Based on that, we can simplify and create two core clusters of network users we aim to reach: downloading end users and professional participants of the file sharing ecosystem.
To accomplish that we work on the following list of actions:

- Maintaining interest by continually communicating progress, releasing content on product features and addressing user queries
- Establishing a product marketing team
- Ongoing presence on relevent blockchain/ cryptocurrency community events
- Running marketing campaigns focused on end users
- Leveraging the UltraUpload community by establishing an attractive referral program

Company Coin distribution: (Mio Coins)	%	Mio €
Team Distribution	23%	5,5
Board & Advisors	4%	1
Company reserve	1%	0,30
Capital procurement reward*	5%	1,20
COINS SOLD (Mio.)	67%	16,000
*= 15% max. 50% coins/50% cash		24

Just log in into our Ref-Program (see link on ICO Mainpage) and spread the word about this great project.

You earn 15% of any investment followed your link. 7,5% in cash, 7,5% in coins.

Petra Bauersachs chairwoman of the board TCU AG

Guido Ciburski, CEO/CTO TCU AG

22.08.2018

<End of Whitepaper>

Appendix

Blockchain, Ethereum, and Tokens Blockchain is a Distributed Ledger Technology (DLT) invented to support the Bitcoin cryptocurrency. It is a distributed database designed to maintain a continuously growing list of records called blocks. Each block contains a timestamp and a link to a previous block.

A blockchain is managed by a peer-to-peer network collectively adhering to a protocol for validating new blocks and additions to the database. Once recorded, the data in any given block cannot be altered retroactively. Functionally, a blockchain can serve as an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way.

Blockchains are secure by design and are an example of a distributed computing system with a high Byzantine fault tolerance. This makes blockchains potentially suitable for recording events, records, identities, transactions, and other documentation. The database is not contained on one central node. Rather, it is contained in its entirety on every node on the network, which means it is more secure.
Bitcoin, the largest (by market-cap) cryptocurrency, has fostered interest in and the development of other blockchain-based technologies, including Ethereum.
Ethereum is an open-source, public blockchain-based DLT featuring scripting functionality. This means, among other things, that the Ethereum blockchain can be used for purposes beyond cryptocurrency and it can facilitate online contractual agreements called smart contracts. In the past year, a popular use for the Ethereum blockchain has emerged: token issuance and Initial Coin Offerings (“ICO”).

Publishing problems of storage solved by UU

Introduction

Problem	Solution in general (details in chapter 2)
Cloud storage has come to rely almost exclusively on large storage Publishers acting as trusted third parties to transfer and store data. This system suffers from the inherent weaknesses of a trust-based model. Because client-side encryption is non standard, the traditional cloud is vulnerable to a variety of security threats, including man-in-the-middle attacks, malware, and application flaws that expose private consumer and corporate data. Moreover, because many storage devices rely on the same infrastructure, failures are correlated across files and systems.	A decentralized cloud storage network offers many advantages compared to datacenter-based cloud storage. Data security can be maintained using clientside encryption, while data integrity will be maintained via a proof of retrievability. The impact of infrastructure failures and security breaches will be greatly reduced. **An open market for data storage may drive down costs** for various storage services by enabling more parties to compete using existing devices. Data on the network will be resistant to **censorship**, tampering, unauthorized access, and data failures.

For more than 15 years the system of online Storage has not changed and the market suffers from a lack of innovation. A high amount of untrustworthy and off-shore Publishers has lowered the trust of people in the current Storage market. It is never completely guaranteed that users are safe. All these problems have one common ground—centralization. Centralized systems create excessive risks for users like exploitation of user data, prohibitive legal regulations, vulnerability to manipulation and denial of withdrawals.	This paper describes a concrete implementation of such a network, and a set of tools for interacting with that network. Since starting our project in 2017 –we've pursued the objective to change the nature of online Storage**. The mission of UU** is as simple as it is powerful: **establishing a new level of trust, privacy and censorship resistance**, yet unknown in the world of online Storage.
Today's Storage system is neither transparent nor trustful. Centralized systems are perfect targets for attacks from inside and outside.	That is where the blockchain and UU come into place. UU´s solution is a decentralized Storage system that will bring transparency and trustless Storage to all users around the world.

Current Video distribution is unfair

Current dominant video distribution solutions are arguably unfair to their key stakeholders:

- Content creators have little or no control over the monetization model that is used to sell their work. Either way, the revenue they generate will undergo significant taxation by a for-profit entity.
- Users have their attention sold for fractions of cents in Audio/Video On Demand (AVOD) models (measured in impressions), while their personal data is mined and sold for profit. In most cases, users are essentially marginalized in the economic equation, under the guise of "free" content and basic service.

- Attention marketers (advertisers, sponsors and agents alike) to whom audience is a key metric must trust third-parties for what they buy. Incentives between them are rarely aligned: fraudulent charging mechanisms of traditional platforms not only account for fake traffic, but are also more permissive with fake traffic when audience is being paid for.

In short, participants in the current video distribution and interaction ecosystem are effectively disenfranchised and their interests are often misaligned. Properly incentivizing content creators, developers and publishers for proposing unique viewing experiences to an audience and transparent and verifiable metrics to advertisers will be key to nurturing the future of content consumption.

The broken link between publishers and consumers

Problem	Solution
Storage runs the Internet, fortunately and unfortunately. Fortunately, because it allows the audience to consume from online publishers a lot of content. Unfortunately, because the marketplace has become a terrible mess, ripe with fraud, invalid bot traffic, costly intermediaries, increasing complexity, abuse, lack of trust and privacy, a decreasing quality of the ad content, ineffective adtech, decreasing margins, bad user experience, and a blatant convenient blindness from the audience. Digital storage is broken in its current form and the industry is now looking to clean up its own mess.	The UU Network offers e-commerce user-experiences built to shorten the funnel and increase downloads. • To offer a new way to download and share, copying expert traders' movements. • To offer an exchange where users can exchange their digital goods in a fast and secure manner. In addition to creating a safe platform to buy and sell crypto currencies, we have implemented several unique selling points which enable us to approach and attract a wider audience.

Transparent hosting market

Problem	Solution
Real-time bidding platforms and their manual counterparts offer limited (or, in many cases, no) information about storage bids. Uploader have no method to verify if they are paying a fair market rate. Additionally, hoster have no verifiable way to confirm they are receiving a fair price for traffic. Networks and platforms provide their own dashboards for reporting, which can be manipulated to highlight top-performing metrics while avoiding others. This is a business-side information asymmetry (and ethics issue) that can be addressed with the transparency of a blockchain solution. There is no network-side economic incentive to be anything but opaque in this regard, especially as the cost of running a bot farm or bot operation decrease—it may be an economically reasonable practice in some instances. A malicious publisher has economic incentive to report all traffic as verified traffic. It is for this reason that impressions are a weak indicator of human page views. The hoster is, of course, incentivized to scrutinize the downloads data they receive but the task is nearly impossible, especially with so many individual steps and layers between the hoster and the publisher. Identifying the inefficiency in a	These funds will be generally leveraged to develop a blockchain-backed transaction database to support the function of our storage platform and business, detailed in the “The UU Network” section, below. Blockchain will be incorporated in the UU storage platform with the goal of addressing transparency issues in storage. UU developed methods to validate traffic and offer this information to all parties. Introducing the UU Network, the Developer aims to disrupt the online Storage industry as we know it today. The Developer aims to shape the future of a trustless and transparent Storage economy which enables it to bring back lost dynamics and trust of today‘s Storage systems. The build in general reward system opens new opportunities for existing and emerging communities. A streamer, for example, would be able to incentivise their existing viewers in customized private streams and would get rewarded through the UU network itself for the creation of the shows. Thus, the UU Network not only creates new streams of income for everyone helping to grow the

three-to-ten party chain (which may include storage agencies and sub-networks) and distilling hosting performance against simple pricing schemes is nearly impossible.	network, but also the expansion of the network itself increases the worth of each Snowden-Coin because of its limited supply. The economics underlying the Snowden-Coin are chosen to benefit the community and the UU Network, creating a natural demand on the open market and thereby a healthy growth of value.

Definition of Terms

This section includes terms and phrases that may have multiple or alternative meanings. For clarity:

- Hoster refers to a server owner who is offering storage
- Publisher refers to the owner of a website or domain who has placed UU-Links on their website for the purposes of monetization or for free or vice versa pay user for watching.
- Downloader refers to an end-user visiting a page and subsequently requesting the content of file/link and/or page be served to their internet browser.

Technical Description

The following part of this Coin Offer Document outlines a technical overview of how the UU Network and the UU work.
First, an overview of the relevant entities of the UU Network is given. This is a simplified view of how the entities work together. The entities are described in the definitions below.
It is deployed on the blockchain when a downloader creates the download. In its initial simplest form, it is responsible for the buy-in USER DL INTERFACE IMPLEMENTATION and pay-out.

Future implementations may decide and pay-outs trustless and decentralized on their own.

„Publisher“:

A Publisher offers a platform where Downloaders can find their content as a link into the UU system. The Publisher creates (deploys) Implementations on the blockchain and is able to manage them.

„Downloader“:

The Downloader is a user of the platform of a Publisher. He participates in Content which a Publisher offers.

Download Creation

Downloads are implementations of the Download Interface. The Download Instances are exchangeable. This means that new Download Implementations with new functionalities can be added later. That way, the long-term goals of the Developer can be reached step by step without the need of forking. The Developer offers templates of Download Implementations which fit the needs of different Publishers. As a result, UU gets more and more use cases and fields of application.
During the setup of a Download, the Publisher has to specify the data, which is required for the Download Implementation used. The first Download Implementation will be rather simple and only needs the following data:

- Wallet ID of the Publisher;
- Buy-in callback address of the Publisher;
- Publisher reward (percentage of the Content Price);
- General Reward (percentage of the Content, at least 1.00 percent).

With this set of data, the Download can handle the buy-ins and pay-outs of all Downloaders.

Download Joining

If a Downloader wants to join a Download-Link, he or she triggers a buy-in at the Publisher. The Publisher triggers the transaction on the wallet of the Downloader. The buy-in is transferred from the Downloader‘s wallet to the Download Instance and is now part of the Content. After the buy-in transaction was successful, the Download calls the buy-in callback address of the Publisher. As a result, the Publisher can

guarantee that UU are now in the Download smart contract and the Downloader has certainly paid the buy-in. In the end, the Download smart contract knows how many Snowden-Coins are currently in the Content and how many and which Downloaders (wallet ID from buyin) are participating in the Download.

Download Finish and Pay-Out

After the results of all host targets of a Download are known by the Publisher, the Download is finished. The Publisher can interact now with the Download smart contract to trigger the finish process. After that, the smart contract divides the Content into three different sub Contents: a. „Publisher Reward“: The Publisher Reward is defined as a percentage of the Content. It is set by the Publisher who interacts with the Download smart contract. It should be seen as reward for the effort a Publisher had, similar to mining of bitcoins. After the Download ended, the Publisher Reward is transferred to the Publisher‘s wallet address, which is also provided at Download setup.

Download Process

The introduction of a UU storage marketplace and a Snowden-Coin blockchain will enable greater oversight, control, and transparency to the process: Each time an end-user makes a URL request at one of the UU publisher properties, the request is received and UU determines whether it has a hoster to serve. If the inventory is available, bid considerations may be made (awarding the display to the lowest-value bid), and the storage is approved for release. Simply, each serve requires two successful Snowden-Coin transactions: one from the hoster (who is effectively paid for the storage) and one from the publisher (who is doing so too) create a record of acceptance on the blockchain).

When UU matches the two parties and receives a download serve request from a publisher property which passes our traffic verification test, UU can claim that a download was served with confidence and the payout will be made.

This record of verified traffic will be available on the public ledger and in a UU-provided dashboard accessible by the involved parties.

UU will attempt to accommodate such activity. In the event that a publisher deposits a Snowden-Coin and a downlaod is not served, it may appear on the Snowden-Coin blockchain but those without a UU-confirmed match are not to be considered verified

traffic. UU will hold such deposits until there is an additional transaction to match it with, at which time the download will be served. UU will explore the development of a system that may cause transactions to fail deliberately if suspicious or abusive traffic is repeatedly requesting download displays from a single source.
While the development of such tools may shrink the size of the UU download network business, it will result in an increase in quality for all parties involved. It is important to note there are a limited number of Snowden-Coin available and, upon full issue, those Snowden-Coin will be subject to market forces. Additionally, the UU download marketplace will foster an environment where publishers and vendors, merchants, and brands choose to do business with each other rather than working with an automated bid system that may result in low-quality matches. There are greater business implications which extend beyond the scope of this white paper but this fact should be noted as it relates to the economics of Snowden-Coin. In recognition that the public Snowden-Coin ledger is an important component to the design of this network, UU will develop a tool to explore and verify transactions on the ledger. Depending on network traffic, verified traffic and confirmations may be accessible between real-time and within a matter of hours of the downloads display. This represents a significant improvement over the existing tracking process for the network, publisher, and vendor.
Should the performance of a dl-server become comparable to or better than existing server solutions, UU will consider this feature addition.
It is also important that our business is already operating, but off of the blockchain and that the Snowden-Coin blockchain requires a clearly defined, often done development: Transfer the client server database into a distributed database (blockchain).
While we expect that the aforementioned process is how the Snowden-Coin blockchain will operate, there may be material differences in how our public release functions.

Technological Advantages, The Cointype Advantage

UltraUpload directly addresses the public sphere, such as the arena of politicians, news organizations, civil society, the various services and brands we know and use, and the various platforms in existence today including Facebook, Twitter and so on.

In order to be truly decentralized and fundamentally independent, one has to go deeper into underlying financial structures. The platform offers a suite of banking and financial services which disrupts the way banking, payments, and financial transactions are conducted..
This essentially means all the banking/wallet technology and the actual exchange of money on the UltraUpload system will be handled with our state of the art technology. Together, this unique UltraUpload integration will be able to withstand any external pressure - financial or political.

P2P-Backup Core for UU

Decentralization offers obvious benefits (presented in previous sections) compared to traditional platforms such as Youtube and Facebook. As such, we will focus on blockchain-based projects that are already leveraging the power of decentralization. As both the video and the storage industry represent massive opportunities and Snowden-Coins have been the best way to tackle these opportunities from a blockchain perspective, some competitors in either industry but no project has had the vision to target UU's value proposition.
UU will consider opportunities in this space as the technology evolves, following technologies like the blockchain-powered file storage solution Storj and IPFS (realized 2017) or Sia http://sia.tech/

Redundancy Schemes

Cloud object stores typically own or lease servers to store their customers files. They use RAID schemes or a multi-datacenter approach to protect the file from physical or network failure. Because UltraUpload objects exist in a distributed network of untrusted peers, hoster should not be relied upon to employ the same safety measures against data loss as a traditional cloud storage company. Indeed, a hoster may simply turn off their node at any time. As such, it is strongly recommended that the data owner implement redundancy schemes to ensure the safety of their file. Because the protocol deals only with contracts for individual Chunks, many redundancy schemes may be used. Three are described below.

Simple Mirroring

The simplest solution is to mirror Chunks across several nodes. Mirroring protects against hardware failures by ensuring that multiple copies of each Chunk exist. Availability of the Chunk with this scheme is P = 1 – Qn 0 an where an is the uptime of the node storing Chunk n. Since all Chunks are required to assemble the file, availability of the file is equal to the availability of the least available Chunk. In the case of a dropped contract, a redundant copy of that Chunk can be retrieved and a new location found for it on the network. This is the current behaviour of the reference implementation.

K-of-M Erasure Coding

UltraUpload will implement client-side Reed-Solomon erasure coding. Erasure coding algorithms break a file into k Chunks, and programmatically create m parity Chunks, giving a total of k + m = n Chunks. Any k of these n Chunks can be used to rebuild the file or any missing Chunks. Availability of the file is then P = 1 – Qm 0 am across the set of the m + 1 least available nodes. In the case of loss of individual Chunks, the file can be retrieved, the missing Chunk rebuilt, and then a new contract negotiated for the missing Chunk. To prevent loss of the file, data owners should set Chunk loss tolerance levels. Consider a 20-of-40 erasure coding scheme. A data owner might tolerate the loss of 5 Chunks out of 40, knowing that the chance of 16 more becoming inaccessible in the near future is low. However, at some point the probabilistic availability will fall below safety thresholds. At that point the data owner must initiate a retrieve and rebuild process. Because node uptimes are known via the audit process, tolerance levels may be optimised based on the characteristics of the nodes involved. Many strategies may be implemented to handle this process. Erasure coding is desirable because it drastically decreases the probability of losing access to a file. It also decreases the on-disk overhead required to achieve a given level of availability for a file. Rather than being limited by the least available Chunk, erasure coding schemes are limited by the least-available n + 1 nodes.

UltraUploads current Token Technology

The UltraUpload 2.0 platform will harness the power of the Ethereum blockchain to create, manage and direct the tokens in the platform. The platform runs on Ethereum based smart-contracts. This enables seamless transactions which are on the publicly

visible ledger. Each smart contract is an ERC20–compatible contract and implements an interface between the depository Platform Wallet with income, and external addresses such as exchanges or ETH wallets.

Create Contracts

First the contract owner has to create the Crowdsale Contract (C1) and the ERC20 Contract (C2). The Crowdsale contract is used to collect and authorize user addresses, collect payments and compute balances at the end of the ICO. If a minimum amount is not raised, then the contract can refund all users. If a maximum amount is raised the contract can stop collecting funds. If for any reason the contract owner decides to stop the crowdsale campaign, the contract can be refunded. The crowdsale contract is only active during a specific time period.

Download Contract Templates

The company aims to bring more transparency to the whole online Storage market which is an ambitious goal. The Developer is aware of the fact that Downloads are handled very differently among Publishers. However, the Developer still wants to offer Download smart contracts that can be used by a wide range of existing and upcoming Publishers as well as future community projects. Therefore, the Developer has developed the above described architecture. The Download smart contracts are implementations of the Download Interface. This means that the Download Interface will be deployed on the blockchain right at the beginning. This Download Interface cannot be changed easily afterwards. It unites all attributes and behaviors which all Downloads have in common.
All Download smart contract instances which implement the Download Interface will inherit these attributes and behaviors.

The General Reward can serve as an example for this.

All Downloads should pay out a General Reward of at least 1.00 percent of the Content price. This could be achieved by packaging this General Reward behaviour into the Download Interface. In this way, all Download smart contracts must pay out the General Reward. Another advantage of this architecture is that the Developer is

able to further develop the Download smart contracts and exchange the simple contracts with more complex ones in the near future. The Developer will do this by implementing lots of Download smart contract templates and offering them to existing Publishers. The Download smart contracts will become more complex and will handle more attributes and variations of a Download. The goal of the Download is to automatically calculate the results and payouts. As a result, the whole process from the buy-in and placing the stores right through to the pay-out will be trustless and decentralized. The Developer will start with a first template which is called ‘Simple Download contract‘. It will handle buy-in, Content segmentation, and pay-out of the Publisher and Hoster Reward, General Reward and download price. Although it is rather simple, it already solves the problem of non-transparent buy-ins and pay-outs.

Private Downloads:

Some Publishers (like the Developer itself) will offer private Downloads. This means, that Downloaders can create their own Downloads based on the events which are offered by the Publisher. Private Downloads may have different economics than Downloads which are open for the whole community. A possible scenario could be that the Publisher wants to reward Downloaders who create private Downloads with UU.

Blockchain

The UltraUpload platform will harness the power of the blockchain to create, manage and direct the Snowden-Coins in the platform but also holding the transaction database as a DHT (distributed hash table).

What Makes Blockchain Special?

Blockchains are simply databases that are maintained by the users of the blockchains as opposed to some third parties who control the databases. Information stored on the blockchain is resistant to any tampering. This is ensured by millions of miners who agree upon the shared ledger in a decentralised way. That means that

blockchains provide equal opportunities to everyone in the world to use them without the fear of getting censored or stopped. Totalitarian governments or big corporations cannot prevent anyone's access to blockchains on a whim and blockchains have already been used to support controversial services like WikiLeaks and others which openly speak about government corruption.

Planned Blockchain-DB

Database storage will rely on a solution similar to BigchainDB. After investigating multiple blockchain based data storage option, we found that our solution had the best technology, fastest blockchain write speeds and seamless integrations. As stated above, the decision of this may change before implementation if a better decentralized database solution arises.

Planned Development

Billing implications are significant as there is a tremendous amount of inefficiency when it comes to storage billing process. In recognition of the fact that token issuance is a new method of fundraising, the Company pledges to publish regular reports on the progress of our technology development and how our business process is evolving as a result.
There are many lessons to be learned which will be of great benefit to the greater Ethereum and blockchain communities. This includes study on the impact of offering organizational ownership through a token method, among many others.
Further, TCU AG Corp. will publish a quarterly report on business performance and hold a quarterly conference call or live-stream to discuss results.
When appropriate, reports will include audited financial reports for both the Snowden-Coin system and the TCUAG Corp. organization. In other words, UU will commit to being a good citizen of the greater blockchain and cryptocurrency community.

Crypto-Currency, more than a hype

Cryptocurrency, specifically Blockchain, has been proven to be a groundbreaking technology in society today, yet it is still in the early stages of adoption. Consequently, many new cryptocurrency concepts are being marketed to bridge the

gap between technical complexity and usability of Blockchain. The Potential in this growing market along with increasing acceptance of cryptocurrencies makes new projects extremely appealing. Having easy-to-use, secure cryptocurrency technology that integrates P2P exchange between fiat and cryptocurrency, credit card capability, and cold, secure storage of user funds while providing novice users techniques to improve their skills is the future of safe trading and exchange of assets.
Providing users with a return on gross profits serves as an additional enticement. We are presenting an opportunity for investors to participate in a Token Crowdsale for our new download platform.

Long Term Goals:

Content creation as a service

Content creators currently cruelly lack resources to properly monetize the unique experiences they are putting together for their audience. With UU, creators will be able to free themselves from the blatant limitations of certain intermediary platforms and profit directly from the sales and viewership of their videos.
New optimised and more transparent business models will emerge from the Snowden-Coin economy. Creators will be able to, among other things:

- Create exclusive content for paid subscriptions
- Get paid directly and automatically share royalties with other rights holders in a transparent manner, upon the sale of items tagged on their content or per any set interactions
- Raise donations directly from their videos
- Receive tips from avid viewers

Application Development Tools

The primary function of the API is to serve applications. UltraUpload.io provides a standard in-browser interface for downloading files from UltraUpload. Though in early stages, it can already communicate, retrieve file pointers and tokens, retrieve Chunks from hoster, reassemble Chunks, and deliver the completed file to a playback element or local file. This allows web developers to easily reference UltraUpload objects from within a page, and rely on them being delivered properly to the end user.

This could be used to provide any service from inbrowser document editing to photo storage.
Key and file management tools for web backends are in early planning stages, including UltraUpload plugins for standard backend tools like content management systems. These tools should help content-driven application developers work with files on the UltraUpload network. Standardizing these tools around permissioning files by user could help create data portability between services. Bridges to other protocols and workflows are also planned. The UltraUpload CLI lends itself to shell scripting automation. Similar tools for FTP, FUSE, and common tools for interacting with files will be developed in the future.

General Tech Position

Cryptocurrencies will change the world and UU wants to be there when it happens by offering an innovative and secure platform to allow the world to safely trade and exchange assets. Bitcoins are gaining legitimacy and with increasing numbers of companies like Reddit, WordPress, Baidu, and small businesses (like pizza chains) accepting Bitcoin payments, it’s the start of a financial revolution. Binary trading and Forex brokers have begun allowing trades with Bitcoins.
At UU, we are a experienced and innovative company and we seek not only usability, but also hold the intrinsic standards of cryptocurrencies in high regard - the principles of anonymity and decentralization. We aim to minimize bureaucracy and build an easy-to-use, fool-proof platform for the masses.
With this Token Crowdsale we offer you a new business model, which in our vision is bound to succeed.

Media/Press Solutions (Text/Pic Encryption)

The Power of Co-Dependence

The UltraUpload Economy is an emergent property of co-dependence. By connecting interrelated platforms via a secure, real-time data-backbone, a single cohesive whole is manifested, that is greater than the sum of its parts, sustaining the three core pillars of an independent press:

- Sustainable for-profit, revenue model

- Impartial by presenting a complete spectrum of perspectives
- Open to all, but curated and moderated by the community itself

The value of any digital platform derives from the activity promoted by the platform, and the community of users who actually create the value by doing the activity - including participating citizens, journalists, contributors, moderators, NGOs, and investors, along with coders and designers who run these platforms. So, the total value of these platforms is a total of the value contributed by everyone connected to it. By tracking and measuring the contribution of this community on the UltraUpload blockchain, it is possible to share the total value amongst all participants. Today, this value distribution is extraordinarily unequal, amounting to value extraction, certainly not value creation. UltraUpload instead facilitates sustainable co-creation, the value of which is correctly shared among all the co-creators, according to their contribution - with greater contributors achieving a larger share in a way that is transparent. Thus, independence is achieved through co-dependence.

The UltraUpload response to media crisis

There is only one way to salvage our democracies that can actually work: revitalizing a public sphere empowered by civic democracy. Therefore, we need to revitalize media and journalism to transform the way in which people access, process and use information to work and play in the world. Recognizing that the way people deal with information is at the core of the erosion of democracy and the public sphere, UltraUpload makes rebuilding the public sphere its pivotal goal. The UltraUpload solution rests upon a non-extractive, regenerative form of economic production and exchange, that flows capital and resources of all kinds into independent media ventures that sit upon the UltraUpload platform. The key is participation. Rather than simply extracting, UltraUpload builds value at every step of participation, for investors, entrepreneurs, editors, writers, producers, curators, commenters, readers, technologists, coders, inventors, users, subscribers, and participants of all kinds. Here, the accrual of rewards is precisely designed to be assigned to productive action which improves the wider system, rather than depleting it. UltraUpload offers a fundamental redesign for how to create, design, fund, market, and deliver media which meets the real social, civic, economic and ecological needs of people in the

real world. UltraUpload empowers them with new ways of harnessing and shaping information flows to facilitate positive change in their own lives and communities.
The UltraUpload system supports a diverse array of independent media companies built upon a mesh of interconnected utilities, tools and capabilities. Every company in the UltraUpload world lives in an ecosystem that supports their ability to reach readers, attract investment, and create multiple revenue streams at a fraction of the cost associated with going it alone. As such, the entire ecosystem of independent press entities are both resilient and adaptive to future scenarios. They can interact with the monopoly aggregators on their own terms, and compete powerfully with them, not by conforming to the rules of their digital landscape, but by creating new rules for a new, emergent media landscape. This, in turn, catalyses the public sphere through the empowerment of our participants, laying the civic foundations for the regeneration of democracy. The result is a vastly superior journalism product that benefits from innovation, imagination and the freedom that only a fully supported independent press can create. This product cultivates a vastly superior public dialogue that is not compelled to demean its quality to sustain depleting storage revenues within the extraction-based attention economy, because it is driven by a non-extractive regenerative post-attention economy. This higher quality public dialogue sustains a growing intellectual competency society-wide; the ability of the intellect to work with contradiction, to access and process complexity, and to use this to act positively in the world. The final outcome is a polis trained to participate generatively in the public sphere, thus laying out a path towards the restoration of our democratic institutions. In short, UltraUpload is building a new media paradigm for the empowerment of communities and the restoration of democracy.

What does UltraUpload do for the media landscape?

How the UltraUpload platform works

In order to be truly decentralized, this accounting must be transparent. Only blockchain technology can be a reliable store of such data, combining identities and profiles, moderation and contributions, monetary and credit-driven transactions, as well as a complete range of editorial and reporting workflows and collaboration activities.
UltraUpload unlocks a way to deeply incentivize involvement on every level in the creation of a decentralized, independent global press.

The Media Status Quo

Journalists and news organizations are fundamental to any strong society. Yet the changing dynamics of the economics of the media industry have led to a weakened journalistic environment all over the world. These dynamics are now suffocating independent journalism - yet they are ripe for disruption by UltraUpload.

The Fall of Journalism

While it is incredibly expensive to produce quality journalism, we human beings only have 24 hours in a day. When two billion of us and counting are spending endless hours on the likes of Facebook, and when advertisers are after one thing and one thing alone - our attention - it is inevitable that they flock to where we spend most of this precious commodity. The exit of storage dollars from journalism to social platforms has happened so rapidly, most news organizations have been unable to anticipate or adapt to the consequences. Meanwhile, most of the content shared on Facebook costs the platform literally nothing. Which means Facebook is monetizing the journalism that we all need, but keeping the largest share of storage revenue for themselves because of their distribution monopoly power. Hence, there is no commensurate revenue-share back to news organizations. And their lack of technological prowess has hastened their creeping demise. Those that are still around will either find new, deep, relevant niches, or dramatically different business models. Most will simply shrink or die. This is not good for anyone, except the Facebooks of the world. The resulting weakening and degradation of journalism has disastrous consequences for the functioning of our democracies, the health of our communities, and the integrity of planetary ecosystems. Rather than empowering constructive action in the public interest, journalism is simply forced to chase declining storage revenues.

Codebase (Komodo)

During the first phase of the rollout, UU is integrated with the existing platform of Ethereum, which has been proven to be a reliable and stable base.
We plan to evaluate migrating the codebase to the WAVES or KODOMO platform once their platforms are mature.

Special Features of Komodo Tokens

The reader may note that this new Komodo asset chain is not a colored-token running on top of a parent blockchain, as is often the case in other blockchain ecosystems (consider the ERC20 token of the Ethereum platform). Instead, this asset chain is an entirely unique and independent blockchain unto itself. This empowers us with significant advantages over other blockchain ecosystems.

The asset chain can run on its own nodes, act according to whatever rules the entrepreneur can imagine, and can scale according to its own audience. Should an asset chain in the Komodo network experience a sudden explosion of activity, the sudden change will not negatively impact the overall Komodo ecosystem. This independence grants a significant competitive advantage in the form of overall security, speed, and ease of use.

Since the coins are immediately available on the BarterDEX exchange for trading, our audience has an immediate trading market. This stands in contrast to today's ICO model, where users often wait weeks or even months before liquidity for their ICO product arises in a centralized exchange.

Finally, through Jumblr technology, participants have the option of privacy when purchasing the dICO product. This enables them to support the crowdsourcing efforts of the entrepreneur within their inherent right to barter in private. Upon conclusion of the distribution of the dICO coin supply the entrepreneur has successfully and immediately completed all the crowdsourcing-related steps that could have taken months in today's typical ICO model. Komodo's dICO model is significantly easier, freer from manipulation, more flexible, and more secure.

The Option of Privacy is Essential to our Ecosystem. One primary goal of UltraUpload ecosystem is to provide our users with the highest levels of security. The option to enable oneself with privacy is an inherent part of a strong security system. Privacy empowers users with the ability to make choices without being directly controlled or observed by a third-party actor. Many of humanity's most meaningful advancements in art, technology, and other human endeavours began in situations where the creator had the security of privacy in which to explore, to discover, to make mistakes, and to learn thereby.

Future Opportunities

Since the start of its project in 2017, UltraUpload pursues the objective to change the nature of online Storage. The aim of the Developer is to provide a system that enables sharers to challenge other sharing enthusiasts on the same level. Through blockchain technology the Developer has the opportunity to cut out the middleman and provide a system without odds and full privacy of all participants.
The Developer strives to create a new level of security and trust in the Storage industry. The UU Network will enable people to compete against others with complete transparency, trust and security. The UU Network can be used for any kind of storage, sharing or press/publishing/payment systems.
Snowden-Coin is used as a virtual currency for the UU Network. The first use case for UU will be the platform of the Developer.
The Developer anticipates that over five million people will use UU in less than two years on the platform alone. Additionally, the Developer will work to establish UU on as many online Storage platforms as possible in order to establish fair, transparent and trustless sharing globally.
A trustless system is a combination of mechanics that allows for two or more parties to interact with another and fulfil contracts without having to trust any opposing party. This allows for private and business transactions parties without having to fear for money or product loss and without a need to trust the opposing party. On the blockchain this is done using so-called “smart contracts”, which are programmed descriptions of the conditions each party has to fulfil in order to receive their part of the deal. For Storage a trustless system would solve all the problems with current Storage Publishers: Get rid of middle-men and other parties that could influence the results and rely only on what you can double-check and proofread yourself. No need to trust anyone, because the blockchain takes care of that for you.

Value of the UltraUpload economy

The value of the UltraUpload economy is a function of the aggregate compounded value of the various interconnected platforms, communities, audiences, engagement, commercial transactions and straight revenue, jobs created, societies sustained, and value created.
In the new world, all this value is captured on the UltraUpload blockchain, via well-documented and federated services that implement the UltraUpload protocols. This

value is distributed back to the entire community of users and other entities, based on the nature and value of their actual participation and creation within the UltraUpload ecosystem and econometric model - auditable on the blockchain in an egalitarian manner.

Acknowledgements

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Disclaimer:

This paper is released with the goal to provide insights on the architecture and background of the envisaged UltraUpload 2.0 (Including blockchain) platform.
This paper is subject to change. It will be amended from time to time to include continuous feedback to questions received from the community and further findings. Any amended versions of this paper will be published on our website; only the most recent version of the whitepaper published on the website is the relevant whitepaper.

Legal terms of tokens

Snowden-Coins are tokens are currently based on the Ethereum-platform intended for online Storage that reward coin holders for various actions within the network (publish, hosting, download, investing).
This whitepaper („Whitepaper“) gives an overview of certain aspects of the UU and its intended use.

This Whitepaper and the information stated herein is not legally binding.

The Initial Coin Offering is only made on the basis of a separate document, the #2do#2do**Token Offer Document** which will be published alongside this Whitepaper. This Whitepaper does not constitute an offer of Snowden-Coins nor an invitation for an offer to exchange any amount of Ether for Snowden-Coins.
The company intends to have Snowden-Coin listed on a number of virtual currency exchanges. Due to the properties and mechanics of the UU system as described herein, the company also aims to have the market value of Snowden-Coin increase over time.
However, there is no guarantee that an increase in the market value can be achieved by the company. If you decide to participate in the Initial Coin Offering as a form of investment, the company expressly warns you that an investment in Snowden-Coins carries a high degree of risk. For a description of the risks associated, see the chapter #2do„RISK FACTORS“ in the Token Offer Document AND the 3 Pager (WiB) of german finance authority BAFIN##.

Statements and Warnings Statement of Purpose

The purpose of this document is to share information about the operation of involved comapnys, UU the online cloud hoster and to introduce Snowden-Coin as the recipient considers partnership or participation in the sale or pre-sale of Snowden-Coin.
There is sensitive information enclosed and it is understood this packet will be used solely for the aforementioned purpose. It is not for public consumption or consideration.

Forward-Looking Statement Disclaimer

Certain matters discussed in this document are about our future performance including, without limitation, the future revenues, earnings, strategies, and prospects of UU Project.
All statements that are not purely historical constitute “future-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995 of US law . Such forward-looking statements are subject to risks and uncertainties which could cause actual results to differ materially from those anticipated. Such statements are based on management’s beliefs as well as assumptions made by and information currently available to management. When used herein, the words “anticipate,” “intend,” “estimate,” “believe,” “expect,” “should,” “Potential,” “forecast,” “project,” variations of such words and similar expressions are intended to identify forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements in making any personal decision.

RISK FACTORS

Accordingly, any persons interested in participating in the Initial Coin Offering is strongly advised to read the chapter „RISK FACTORS“ in the #2do#2doToken Offer Document. This chapter includes more detailed descriptions of factors that might have a negative impact on UU. In light of these risks, uncertainties and assumptions, future events described in this Whitepaper may not occur.

Terms and Token Holder Rights

See sales ageement

Regulatory Information

We have designed the UltraUpload system to be self-regulated and transparent. UltraUpload token holders will be kept informed at all times of developments within the UltraUpload eco-system including a high degree of openness around the financials of UltraUpload

This Paper has been prepared solely for the purpose of informing contributors to the UU Project with respect to the proposed implementation (legal, technical, economic and otherwise) of the Snowden-Coin and the distribution by the UU of account to use the protocol, called Snowden-Coins. **This Paper is non-binding in all respects and does not create any legal obligation of any kind on any person unless and until the ICO is successfully completed.**

The ultimate implementation of the UU is dependent upon several factors and risks outside of the control of the founding member(s) of the UU Project, including regulatory risks, contributor participation, the adoption of blockchain technology and the continued use and adoption of the Ethereum network. Nothing in this paper or otherwise shall require the company to take any steps to continue the development or otherwise implement the Snowden-Coin in its envisioned form if not all the necessary conditions are in place for any such implementation.

Each of project partners and the UU Project reserves the right to abandon the UU project (by returning all available contributions back to their contributors) and/or to change the implementation of the UU network contemplated by this paper at any time and for any reason, as further approved by the Board of Company.

Prospective users of the UU and other contributors to the UU Project are advised to contribute and/or participate at their own risk and without reliance on any statement contained in this White-Paper.

A Snowden-Coin is not a security, debt, equity, investment contract or other profit sharing or interest bearing instrument.

Since no blockchain based ecosystem can thrive by restricting the transfer of its digital rights, the Snowden-Coins are made transferable among participants of the protocol.

One inherent consequence of these digital token attributes is price fluctuation. The price of a token may fluctuate based on the quantity of tokens earned, spent or transferred among the protocol participants, including via the association or otherwise. Each participant of the protocol provides value-added services to make the protocol an innovative, decentralized, thriving and resilient ecosystem. Each participant has the obligation to abide by its terms of service and code of conduct or risks being banned for serious breach or repetitive non compliance behaviours. The token attributes come with governance rights and incentives to grow and promote the protocol but also deterrence mechanism to ensure services are rendered in accordance with the purpose of the protocol and its code of conduct, such that the protocol can realize its full growth Potential.

The official version of this document is the English version.

Contact Terms

This document is intended only for the person(s) who were contacted directly by Company and it is not an offer to sell or a solicitation to buy any digital assets. It contains information that is confidential and privileged. If you have received this document in error, please notify the sender and delete this file.

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