

The World Computer Project and the Hedera Token Service

Hedera21 Virtual Hackathon Submission



The World Computer Project and HTS

- A *not-for-profit* initiative to socially engineer a single planetary-scale computer designed to secure and protect the future of the digital commons
 - P2P
 - owned and operated by the people that contribute to it
- Goal:
 - Invert the web and save the internet by removing the need for inequitable concentrations of server power, thereby giving the technology back to the commons, all without asking users to abandon the protocols they already know
- Hedera Token Service:
 - Provides the backbone of the trust and accountability that will underpin a truly transparent and fair platform with an exciting P2P digital “attention” economy that everyone can prosper from

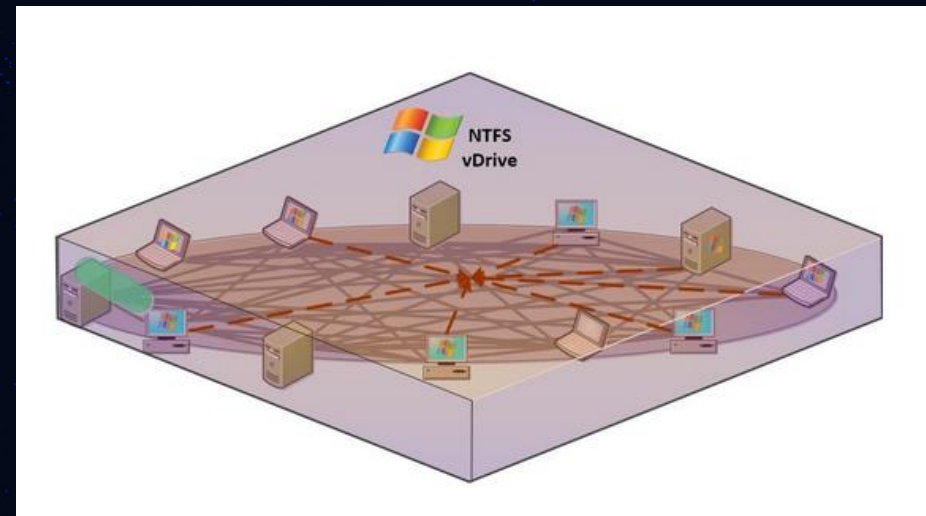
The World Computer Organization

- Canadian Federal not-for-profit
- Provides Stewardship over:
The World Computer Project
- Mission Statement:
 - To preserve the original open and democratic intentions of the digital pioneers who created the most generative technologies in human history – the Personal Computer and the Internet, to ensure a digital future that enhances the human condition, rather than dislocates it
- Founder:
 - Rod da Silva, concerned digital citizen



Breakthrough Fast, Secured, Parallel, Shared Distributed File System Technology

- Peer-to-Peer technology designed to Distribute, Decentralize and Disintermediate the Internet
 - removes the need for centralized concentrations of server power on the internet
- A single computer that materializes a single massive shared virtual hard drive, backed by the spare storage of P2P contributors who are in turn remunerated accordingly
 - No more network for end users or developers!
 - World Computer operating system abstracts it away
 - Everyone simply access files “locally” subject to access control security set by file owners, on the single shared hard drive
- Files distributed at the encrypted block level all around the world
 - Scattered/gathered on-demand in a massively parallel way when written/read using mathematical uniform distribution
- All Nodes in the P2P network multi-mount and share a single secured NTFS vDrive
- Creates a world-wide shared store of human digital content shareable by all



Game Changing Insight

- If everyone can share a single massive, virtual hard drive, then there is no need for a network
- All of the following concepts immediately disappear from both the end-user and the developer's lexicon:
 - servers, DNS, upload/download, email attachments, data proximity, file replication, proxies, file shares, client/server model, etc., etc.,
- Developing for such single computer abstraction with a single logically “local” vDrive simplifies everything for both user and application developer

The ATTENTION Economy

- In order to provide the proper incentives to adopt the p2p vision for the World Computer the platform must incentivize people by:
 - Ensuring there is no new paradigm shift that rocks their world
 - this is one big (of many) problem with DLT adoption today
 - There has to be the guarantee of tangible digital prosperity with a level, green-field opportunity for all
- The World Computer integrates the “ATTENTION” (ATTN) token using HTS
 - a “stable coin” that achieves a store of value, a unit of exchange, and a transparent record of account for the intrinsic value of people’s attention
 - people *pay* ATTN to others, and in turn get *paid* for their ATTN, which is the very essence of a sustainable society and its digital economy
- The World Computer uses the ATTN token to allow people to earn tangible value from a variety of revenue streams in a seamless way, while Hedera provides a public ledger of record and accountability

The World Computer and Hedera Together

Create a Vibrant New Digital Economy

- The World Computer personifies Leemon Baird's vision for Swirlds
- Working only with their "logically local computers" people are empowered to connect directly with each other for all manner of commerce.
- Every self-sovereign identity (i.e.; user) established on the World Computer is automatically "banked" with their own personal **ATTN** wallet
- Further any digital asset (i.e.; file of blocks or data table of records) can be easily "Published" to the world with DRM completely controlled by its owner
- Each published digital asset is provisioned its own **ATTN** wallet through which its provenance is transparently recorded throughout its life
 - all interactions with the digital asset are recorded seamlessly, anonymously, and transparently on the Hedera public ledger
 - this transparency provides opportunity for anyone to curate valuable innovative data analytics services for the decentralized world based on digital content consumption
- Alternatively anyone can get paid for curating and/or referring premium content to others, equitably sharing in the revenues generated by their word-of-mouth
- Still others will choose to earn revenue by simply renting the unused disk space they have on their computers, to share in the revenue value-chain created when premium content is consumed
- Still others will leverage their **ATTN** influence and earn lucrative streams of revenue simply by telling (i.e.; Sponsoring) others about the platform
- Hedera HTS ensures all digital activity on the platform is settled quickly, fairly and verifiably in a frictionless way with no middle man rent seekers

World Computer Drives HTS Tokenization of the Digital Content Value People Create

- The World Computer creates HTS Tokens by:
 - automatically provisioning an Hedera Account for every *Self-Sovereign Identity* (SSID) defined on the platform, i.e.:
 - Every **Node**
 - Every **User**
 - Every **App** (created by developers)
 - Every **Premium Digital Asset** (i.e.; File or Data Table published by users)
- Enables these SSIDs to *pay ATTN* to each other seamlessly
 - all accounting is automatically, correctly, fairly, and transparently handled by the platform *atomically*
 - leverages HTS micro payments and multi-party atomic swap capabilities
 - all SSID wallet *key management* is seamlessly secure on the World Computer's single massive shared vDrive using proven NTFS security
- Together the World Computer and the Hedera HTS will seamlessly drive the tokenization of all the digital content that people create, and then enable them to freely trade in its value P2P
 - ushers in the long awaited decentralized attention economy that ensures a digital technology future that is human-first (People2People)!

Together the World Computer and Hedera Forge a Path to a Fully Decentralized Future

- In Hedera terms, the World Computer aims to be a public APPNET on a planetary scale
 - an open *permissionless* P2P global network of nodes, that uses the Hedera Token and Consensus services for its **ATTN** economy's financial transactions trust layer
- The security afforded by the Hashgraph algorithm in Hedera, in combination with the World Computer's innovative NTFS secured off-chain distributed yet shared file system (and soon database system), creates a viable path to the holy grail of complete decentralization on the Internet
- Together, Hedera and the World Computer's P2P nodes will restore the generativity that was the promise of the original PC + Internet union, by materializing a secure and reliable *shared* single computer abstraction out of 1,000,000s of people's inherently untrusted everyday computers
 - this emergent platform forged and owned entirely by the commons that contributes to it, solves all the problems of today's broken web reality without the disruption of needing to change well entrenched Internet protocols:
 - obsoletes the inequitable client/server paradigm that gives rise to innovation stifling dominate big-tech monopolies
 - enshrines, by software protocol not just promise, peoples complete right to data privacy
 - removes the root of all Internet security problems exploited by nefarious agents – *anonymity*
 - equitably credits all data provenance, and the entirety of the value derived from it, solely to content creator chain-of-value
 - paves the way for the long await Nelsonian "two-way" link which will herald the start of a true digital information **ATTN** economy for the people and by the people, that is unstoppable

Next Steps & Roadmap

- The World Computer is live - download it and try it today
- Visit the WorldComputer.org and read the whitepapers:
 - A Vision for a Dignified World Computer Digital Economy
 - A Roadmap to Socially Engineering the World Computer
 - UnoSys - An Overview of the Operating System Design for the World Computer
- Coming Soon:
 - The World Computer integrated with the Hedera Main Net
 - BYOS: *Bring Your Own Storage* and get paid
 - A developer SDK for creating game changing decentralized Apps for the World Computer for fun or profit
- By acting together, we have the power to invert the web and safeguard our digital providence for generations to come

