Shannon Duncan/Mike Quale/Scott Morrison/Sean Valeo



Welcome To Halo Platform

Congregate. Organize. Strategize. Execute.

Shannon Duncan/Mike Quale/Scott Morrison/Sean Valeo

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Introduction

Peer-to-Peer cryptocurrency usage is increasing at an exponential rate. Halo Platform aims to be a keystone of the crypto ecosystem by creating a robust, fully encompassing platform that fuses the finest parts of the cryptocurrency world together. This in turn will make everyday life for the beginner, amateur, or veteran crypto user easier in many ways.

The team has a vision of expanding the nature of cryptocurrency with a constantly evolving platform that grows with the needs of the users. This serves the people, and derives its value from the respective success of each user on it's platform.

Each individual in the Halo Platform represents a new link in the ecosystem, creating strength and value within a safe platform and utility. The side effect of helping them with their own growth and promoting their own self-interest, is that it in turns creates additional value to and growth from using the Halo Platform.

The deployment and maintenance of Halo Platform will be orchestrated by top-tier cloud consultants who are leaders in their field, empowering everyone with solid crypto management capabilities. The security and cloud-based load balancing will also bring a new, refreshing aspect to traders and investors looking for uninterrupted market access.

The Halo Marketplace and Business Tools features add a smart and empowering dimension to the crypto ecosystem. The Halo Token Hub additionally will allow users to create their own tokens in a safe, secure, and consensus-driven environment for quality assurance.

The Halo Platform will be served by its own low-latency blockchain which will utilize a Zero-Transaction-Fee protocol so that when a user sends 1 HALO, the other party gets 1 HALO, period. These advantages, coupled with highly unrestrictive smart contract deployment limits mean that our blockchain can provide for a seamless experience between platform features and creates almost endless opportunities for new ones.

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The Team



Scott is an avid crypto trader, miner, finance specialist and entrepreneur who founded Halo in 2017. He brings top tier crypto experience, consulting and a clear vision of the Halo experience and its potential.

SCOTT MORRISON FOUNDER/CEO



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The Cloud Architect every team should have, Mike brings elite IT and business experience to the team. A seasoned crypto trader, entrepreneur and weekend rockstar, Mike advises enterprise level IT clients daily.

MICHAEL QUALE
CHIEF TECHNOLOGY OFFICER



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Shannon Duncan/Mike Quale/Scott Morrison/Sean Valeo



A full stack perfectionist, our Vice President of Development. Shannon specializes in VueJS, Javascript and NodeJS. He has many years of experience in the Financial Industry leading a talented team of developers.

SHANNON DUNCAN

VICE PRESIDENT OF DEVELOPMENT



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Veteran software development professional with a career spanning over 15 years of shipping critically acclaimed software across multiple platforms. Led Production for industry-leading social games on web and mobile platforms, including FarmVille and Zynga Texas Hold'em Poker. Head of Operations for critically acclaimed Star Wars branded titles at LucasArts. Managed Quality Assurance for multiplatinum console sports games: EA Sports FIFA Soccer 2003 to 2008, EA Sports World Cup 2002, MVP Baseball 2004. Agile nerd and resident Canuck.

DEVIN SETO

VICE PRESIDENT OF OPERATIONS



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The Halo Masternode System

The Halo Masternode system comprises of a four tier system. This system distributes transactions and allocates data processing in a structured design.

Front Running Invulnerable

Front running goes back to the days of using paper to trade stocks. People would have large orders and run their trades in front of the large order. This would create major opportunity for the 'front runner'. Some tokens and coins are vulnerable to this same sort of issue with users putting their transactions in front of larger transactions. The Halo Platform is immune to this issue.

All transactions in the Halo Platform are processed by the Masternode system. The Masternodes have no access to change headers, and all transactions are handled FIFO (First In First Out). When a Variable Demand Transaction Block is produced, each tier of Masternode independently validates that no headers, transactions, or timestamps have been altered, creating an internal peer consensus. Once a transaction is submitted then all other new transactions will be submitted after the fact, sono one individual or system can push a transaction to the front of the queue - only close out the current transactions for confirmation to the blockchain.

Masternode Tiers

The Halo Platform masternodes are tiered processing hubs for transactions across the platform. Halo Currency is minted at a rate of 30,400 Halo every four minutes and distributed across the masternodes within an 8 to 24 hour window from the previous distribution.

In addition to these distributions, masternodes also receive a portion of service fees generated across the platform at a rate commensurate with each tier.

Below is a graphic that outlines the masternode system tiers.

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Tier 1 Masternode

Cost: 400,000 HALO Block Reward: 4,000

Masternodes Available: 5,000 Service Fee Reward: 5%

Tier 2 Masternode

Cost: 800,000 HALO Block Reward: 6,400

Masternodes Available: 4,000 Service Fee Reward: 10%

Tier 3 Masternode

Cost: 2,000,000 HALO Block Reward: 7,200

Masternodes Available: 1,000 Service Fee Reward: 15%

Tier 4 Masternode

Cost: 6,000,000 HALO Block Reward: 12,000

Masternodes Available: 500 Service Fee Reward: 27.5%

The Halo Platform team also manages an "Archnode" which has a reward of 800 Halo every 4 minutes and service fee reward of 42.5%. Currency generated from the Archnode is reinvested back into Halo Platform to further ongoing development and offset operating costs.

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Halo Dashboard Smart Features

No Transaction Fees

Gone are the days where you have to make sure you have enough currency to pay the gas to send someone a transaction. If you send someone 1 HALO then they will receive 1 HALO. This is possible because our masternode system will be always available to handle transactions and provide consensus. The smart contracts will have public and private variations that control gas usage. Public contracts will use gas, and private will not. These are discussed in detail in the DAPPSTORE and SDK sections of this paper.

Safe, Instant, and Anonymous Sending Fees

These three sending features will incur a small fee as they are not your typical method of sending funds.

Safe

This sending feature will validate the address being sent to, to make sure it is valid and able to accept funds. If it is, the contract will send the funds. If it isn't, the funds are safely returned back to the sending address.

Anonymous

This sending feature will mask the sending address to protect where the funds came from.

Instant

This sending feature will instantly create a new block to be validated and sent up the tier list of masternodes. Using this for quick payments faster than normal blockchain transactions.

Halo Token Hub

Some exchanges offer the ability to create tokens, but when not regulated in the proper fashion, new tokens can be confusing to the users and bad for the ecosystem. Our goal for Token Hub is to be the new standard in ICO creation. With support for ICO launches

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from resources, to escrow funding, to community consensus for quality and launch process. We will be including this and more!

Our community-governance and oversight model gives new tokens a more solid vetting process from the Halo community, in addition to the support in creating the token. This gives the community more peace of mind about new ICOs and projects evolving.

Halo Business Tools

Send or receive payments in crypto instantly! We will also allow users to create Checkout buttons for their storefront or for embedding on their own website or blog. Users can accept payments for services and products, or tips and donations. Being their own boss is a dream for many not only in the crypto ecosystem, and we aim to make it easy. Accept payments, create products, invoice, and more! All done effortlessly with our platform.

The new Halo debit card will provide users with an additional solid layer of functionality with the option to utilize their funds in the cryptosphere or right at the gas station, online, at the restaurant and more. This creates a solid, closed loop decentralized transaction system independent of traditional banking slag.

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Halo Marketplace:

The Halo Marketplace is a perfect compliment to the Business Tools section creating an independent and secure place to do business intelligently. Halo will be the complete crypto portal for this new multi-billion dollar industry, being utilized by newcomers and veterans alike. This props up the crypto ecosystem and creates strong revenue to bolster the Halo Platform's growth for decades.

Spend Halo and other tokens for services, electronics, clothing, collectibles, jewelry and more. Users can be both the customer and the merchant with the Halo Marketplace.

Halo Dashboard:

The Halo Dashboard is meant to give users instant access to nearly every feature they might want with the flexibility they need. At the same time it allows users access to their profile settings, security, API keys, account verification and more. With each user comes a particular setup that works best for them, and we want the modular dashboard to be easily reconfigurable to the user's needs. Users can track every transaction made for each wallet they've integrated, all in one place. One of our goals was to make things easier for both veterans and newcomers alike, condensing the expansive universe of crypto into one smart, decentralized control exchange (DCE) hub.

Halo Portfolio:

Real traders want zero trading lag when making serious moves in the market. Users can track gains like a pro and can get SMS alerts instantly. Users can check their ROI from holding monthly and yearly, track off-chain assets, and view their portfolio position in BTC and other base currencies as well. Halo is the last crypto tool anyone will need.

The HALO portfolio section will also allow users to quickly ascertain current positions and holdings with our secure integrations, with the flexibility to track alerts and gains fast.

With the use of an external API key, you can bring in price quotes and functionality from exchanges you have already used or want to use, including Halo's own exchanges!

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Wallet Integrations:

Halo offers multiple wallet integrations so users don't have to access five different interfaces to get the info they need done fast. The Halo Wallet is meant to be the user's one-stop multi-wallet control hub. Users Import and control only the wallets and accounts they desire. They can be utilized for creating smart contracts, voting on consensus on Halo evolution, new features, and more. Our goal is to create a flexible environment for all the tokens users want to track, with a secure and strong backend backed by Cloud Hosting and top architects engineers in the field securing user data.

Halo Community:

Giving users the ability to use the Halo Platform friends and groups features to stay in touch with and organize solid groups for discussion and signals is our goal. The more power we put in the user's hands, and the easier we make the interface, the more people around the world will utilize the Halo DCE platform and increase its growth.

Halo Business Services:

We want to make a solid merchant processing platform as a key component of the Halo cryptocurrency ecosystem. We want to empower our users to be their best in the cryptosphere. Users will be in charge of their own pricing schedules with lower fees than other digital storefronts. We will offer an array of tools to work with their crypto store products, consulting, or other business services. These tools will be easy to manage, easy to invoice, and easy to track with reporting and more.

Halo Financial Tracking:

No one has integrated a solid financial tracking and business tracking technology for crypto users to date. More and more people are flooding into the cryptosphere daily. Giving them an opportunity to provide services and consulting, track earnings, create invoices, and estimates easily will be a great advantage for everyone. This is the future of currency, and we want to be a part of the crypto user's new business idea in every way possible, every day.

Halo Smart Backups:

The importance of backing up not only private keys but also the spreadsheets, images, conversations, screenshots, charts and the like was not lost on us. Making the backup experience for multiple data formats easy is as strong advantage and utility for our

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users. Keeping their data safe and secure is important to us and to a successful, long-lasting platform.

Halo Pro Tools:

Pro Tools are items crypto users have all been asking for, for a long time. Finally we are solving the problem by putting the tools they've been wanting and more all in one easy place to use. When it comes down to having everything, we thought some tools would be essential to the crypto ecosystem that both newcomers and veteran traders alike could appreciate equally. We want users to be able to draw and share all the charts they want, create spreadsheets, share them easily, and help with the evolution of tool sets on Halo through feedback and consensus.

Halo Digital Currency:

The Halo coin is designed to be an efficient store of value for the system as it is both tradeable on our platform and others, and it is generated by users on the platform in the form of fees. Our masternode setup will be whale-resistant with smart, multi-tiered architecture to incentivize top masternode experts to get onboard with Halo.

The HALO Coin is not an Ethereum token, it is a full coin with it's own network.

Using Halo Digital Currency & Other Crypto

While we will be listed on exchanges and allow you to use the HALO currency within our platform, we have some added benefits for Halo Platform members.

The Halo Platform Debit Card

Use our branded debit card internationally. We will be handling the crypto to fiat conversion, and providing you a way to spend your crypto at the grocery store even if they don't specifically accept crypto. To help facilitate this process we have financial sector team members with experience dealing with debit and credit cards.

ACH & SWIFT

Along with the debit card platform, we are offering the ability to transfer crypto into fiat through ACH and SWIFT. Using standards and experience from the financial sector

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team members, ACH and SWIFT will be accepted at their respective countries and institutions that support them.

Buying and Selling Crypto

Using the two methods above and the exchanges on our platform, you can buy and sell cryptos which are not just Halo Prime. If you'd like to use BTC or ETH on your debit card or ACH then feel free to do so. We will provide the tools and information necessary for you to make it happen.

Halo Chat

Using the Halo Chat module, Halo Platform will be including end to end, peer to peer, encrypted chat messaging. Real-time quantum resistant encryption will protect messages sent to and from users.

What is Halo Chat? It is an end to end encrypted messaging system that sends messages using the decentralized Halo Platform Network. Using both on-chain validation and off-chain speed it will be completely peer to peer, fast, and secure.

Halo Chat uses multiple layers of encryption to secure your messages and data. That's right it can also be used to send other types of data such as files.

Exchange

Halo Chat will integrate directly with the Halo DCE Platform to allow you to communicate and interact with it directly from your chat. While it is directly integrated to Halo DCE you can use an API key to integrate with other exchanges and add more functionality to your chat room.

Video Chat

A direct peer to peer video communication network using the Halo Network. Host group conferences and direct communications through the secure video chat.

Anti-Spam

Gone are the days of MEW spamming in slack. We are actively building in rules for untrusted users messaging. We will build systems to collect and intercept spam

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messages before they go out to users. Giving the community admins the option to ultimately delete/ban/pass through the messages as needed.

Halo Exchanges

Too often we hear the issues users have with extreme platform usage, such as losing funds on shorts during platform outages, etc. Halo has been carefully architected with the help of top cloud engineers, for a carefully load-balanced trading and platform experience that you can count on when it matters the most. Being a singular one-stop crypto control hub for users wouldn't make sense without an Exchange - a place where users can purchase and sell coins and tokens safely, securely, and most importantly, easily. No matter what level of experience they have in the crypto scene.

Formed from an initial idea in early 2017 to add a relatively basic exchange as a feature of the platform, the concept has blossomed into an ambitious project to incorporate not just a more advanced trading interface, but what we believe to be one the most advanced modern trading platforms, built for traders - by traders. A tall order in today's thriving and security-conscious landscape.

The exchange feature is split into two different projects, with two different use cases. In short, the Centralized Exchange (HaloX) requires a common intermediary for deposits/withdrawals, but allows for ultra low latency off-chain order execution, margin trading and fiat pairings; whereas the Decentralized Exchange (HaloDEX) requires no middle party or trust component, but orders settle on chain and execution usually takes slightly longer.

Both projects have been created with the below 4 common goals in mind:

1. Ease of use:

One of the most important aspects of a trading platform is developing a robust and intuitive user experience. Halo Platform exchanges will make use of tooltips, context sensitive help systems and best design practices that will ensure our users have the best possible trading experiences available to them.

2. Scalability:

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Our technology stacks run on Public cloud provider hardware. We use cloud technologies to easily deploy, integrate, scale and self heal failed services.

3. Security:

Security is our number one priority, so we've gone over and above the call of duty with our security policy and given users a multitude of ways to secure their accounts. On the back end, we have architected a complex cold-hot wallet storage/access mechanism to secure funds whilst allowing for reasonable withdrawal times. And of course, government grade encryption wherever needed.

4. Functionality:

Both exchanges have been designed with the trader in mind, which are bursting with features that will allow you to trade to your peak ability.

Find on the following pages a high level overview of the features for both exchanges.

Centralized Exchange (HaloX)

Phase I

- Web Interface
 - Fully customizable dashboard stretch, scale, duplicate, move components around with multi-monitor support right from the browser.
 - Intuitive component breakdown
 - Full feature charting
 - Light/dark mode
 - Mobile Friendly
- Matching Engine
 - Bespoke Ultra Low Latency Algorithm
 - Self Trade Prevention Functionality
 - Price Improvement always where available
 - Fair FIFO Queue no preferences for any client
 - Pre-Queue Algorithm for off market orders
 - Support for the following order types:
 - Limit

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- Market
- Stop Limit
- Stop Market
- Post-only Cancel
- Fill-or-Kill
- Fill-and-Kill (cancel remainder)
- GTC (expiry date/time)
- One-Cancels-Other
- Hidden
- Security/Networking
 - Cloud DDOS prevention
 - TLSv1.2 session encryption
 - High Availability
 - Secure password policy
 - o 2FA requirement
 - o ECDSA API Key Pair Authentication
 - Extensive user security preferences for Withdrawals / Access
 - Advanced internal wallet structure
 - Next-Gen cold storage implementation
 - Detailed internal Admin security policy
- Risk Management
 - Bespoke Ultra Low Latency Algorithm
 - Live Margin Computation
 - Live Historical VaR Computation
 - o Liquidity-driven Safeguard Algorithm
- API Access
 - FIX 4.2 base protocol
 - WebSockets
- Highly Competitive, auto-scaling fee tiers
- P2P Margin Financing

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- In-depth user help documentation and API libraries
- User Support Ticketing System
- Tiered Privilege User Registration
- Industry-grade PDF and CSV financial statement downloads

Phase II

- Advanced Order Entry pane including Scaled Order Entry and Auto Differentials (spreads, flies, arbs, diffs)
- Auto Lending
- Arbitrage Matrices
- Multi-Client Management
- Extensive Coin/Token Listings
- Masternode Listings
- Derivatives Listings
- Alternative Asset Class Listings
- Colocation Service

DeCentralized Exchange (HaloDex)

Phase I

- Web Interface
 - Intuitive interface
 - View, place and manage orders
 - o Charting functionality

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- Mobile friendly
- Trustless token exchange
 - Built on a series of Halo Platform Hosted Smart contracts
 - o On chain order publication / settlement
 - Fully Autonomous
- Security/Networking
 - Cloud DDOS prevention
 - SSLv3 session encryption
 - High Availability

Phase II

- Margin Trading via smart contracts
- Advanced Order Functionality

Allocation

The ICO generated 1,000,000 HALO Coins. Coins during ICO were sold at \$10 / HALO Coin.

In December 2018, the Halo network was forked and the coin was split at an 800:1 ratio. Existing wallet balances, coin minting, and masternode allocations were updated to reflect this change.

Over the next 20 years we will continue to release a supply of Halo Prime Coins into the network. The release schedule looks like so:

- Approximately 8,000,000,000 coins in supply after 2 years.
- Approximately 16,000,000,000 coins in supply after 5 years.
- Approximately 32,000,000,000 coins in supply after 20 years.

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Platform Technology

Some of the programming technology we will utilize to create the Halo DCE Platform:

Halo Wallet: The Halo Wallet will be built using Javascript and more specifically Vue.js.

Halo Coin: The Halo Coin will be constructed in the Go programming language.

Hosting: Halo will be load-balanced properly on cloud servers by core team engineers.

SSL Protection: We have designed an auto SSL generation and renewal system to protect masternodes hosted by us, protect our exchange, and future proof with short renewal periods to rotate SSLs frequently.

Generating Revenue / Growth

The Halo Platform will generate revenue via usage in multiple ways:

Platform Fees: Certain transactions done on Halo will generate fees.

Marketplace Sales: Flat percentage rate for merchants selling on the Halo Marketplace.

Masternode Distribution: Intelligent smartnode system for strong distributed networking.

Note: The Halo token does not utilize proof-of-work and is therefore not mineable.

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The Halo DAPPSTORE

We will be building out additional tools and features for DAPPs on the Halo Platform. Many of these will give DAPPs the ability to talk to other DAPPs, add additional communication protocols, and increase security with encryption standards.

Included in the Halo Platform will be a DAPPSTORE of curated apps that meet our stringent security and usability guidelines and requirements.

DAPPSTORE Users

Users will be able to trust DAPPs that are listed in the DAPPSTORE. Our users will also be able to find and access DAPPs quickly and effortlessly.

DAPPSTORE Developers

Developers will have access to new tools and options, and increased exposure. Using our standards developers can offer their DAPPs for free, for a flat price, or even for monthly subscriptions.

DAPPSTORE Audited Contracts

Along with publishing DAPPs through the DAPPSTORE, developers will be able to have their contracts audited, vetted, and published by the Halo Platform Dev team. While this will incur a cost to the developer submitting a contract, the result will be a contract that its state changes cost 0 (ZERO) gas. For more on this see the Halo SDK area.

The Halo SDK

The Halo Platform will be a diverse array of complete applications for users to control their entire cryptosphere. To help support the diversity of applications, we are providing both API's and SDK's to developers to extend the wallet, core applications, and provide new applications to solve new problems in the future.

Included with the SDK will be a complete set of tools in addition to the API. The tools are as follows:

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Contract IDE

A complete development environment to test contracts on a private blockchain, test network, or a client side VM.

Example Applications

If you need a quick jump start to developing on the Halo Platform, we will provide some quick start applications that have everything setup and ready to go to start development. We will include quick starts for Angular, React, Vue, and even Meteor.

Tooling

All of our core modules will be built on Vue, and we want to provide developers with a stress-free way to interact with the Halo Platform. We will be providing typing files, service dependency injection, and more. Expect a vast array of tools for developers.

JS API

We will provide a new layer of interaction with our wallet using a javascript API that can be consumed by DAPPs. This API will allow you to interact with currently installed core modules, modify theming and shortcuts for the wallet, modify theming for core modules installed, and much more!

Test RPC Network

We know that loved feature for development in the community is the Test RPC option. It allows you to do blazing fast testing without connecting to an actual private or test blockchain. We want to help you take your app a step further and provide you with the tools to do instant testing without waiting for blocks to be minted. The Test RPC will take care of all those needs for you.

Browser Plugin

We are also developing a browser plugin to allow your DAPPs to be used outside of the Halo Wallet. Users will be able to interact with your DAPPs using the main net, test net, local private nets, local test rpc, or even through an embedded VM running inside the plugin when needed.

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Halo Domains

Get easy to remember domains mapped to your DAPPs so that your users can find your site and index it easier within the Halo Platform DAPP network. This will be used in conjunction with our new protocols for serving static files.

Gasless Contracts

The point of having transactions and state changes to a contract cost gas is to prevent contracts from entering into continuous loops and causing malicious problems. This helps keep contracts within the bounds of the network and prevent scaling and timing problems. To keep these same checks in place we are still going to require gas on public contracts. Just like contracts today, anyone can publish a public contract. However we are going to offer a unique feature to developers and token creators. If you wish to submit your token code to a security audit, and it passes, then your token can be published by the Halo Platform developer team as a private contract. Private contracts can only be published by the Halo Platform developer team, and incur 0 (ZERO) gas costs when changing contract states or sending transactions.

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The Universe Expansion

We are building new features on top of the Swarm protocol built by the ethereum network. We are calling it the Universe, and the project is the Universe Expansion. Outlined below are the features we are adding into Swarm for standardization and tooling.

NoSQL JSON Datastore

Giving you standardized API and tooling to use a NoSQL database stored in Swarm on your application. DAPPs will have direct access to storage and management through the halo.js API.

Asset Control

A familiar situation as with the current Swarm, the asset control API will allow you to store files and information within the Swarm network. This will be particularly good for PDF's, images, and other items that aren't related to serving a web page but needed for general storage purposes.

Static Site Server

Using the distributed decentralized network to store your website and serve it to others is a major goal of the Halo Platform. As long as your website assets are static files (Ex: HTML / CSS / JS / JPG / PNG / etc...) then they can be served from the network. We are taking some key notes from other distributed and decentralized website hosting projects. The ability to deploy your website and update it will be given through the SDK tooling.

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Roadmap

We are setting a solid roadmap that gives the correct time and allowances to build your amazing city for cryptocurrency. The times we have set allow us to do proper testing, evaluation, community feedback acceptance, and much much more. We are dedicated to building you a quality product that you can stake your investment and time into.

2018 Q2	Network Live Wallet App Master Nodes Live ICO Distribution	
2018 Q3	Decentralized Exchange Wallet App 2.0 Light SDK	
2018 Q4	Browser Extension Coin Split Masternode App 2.0	
2019 Q1	Game Platform API Re-write Centralized Exchange	

Current Competition

There is no current competitor that does what we are doing. No platforms, tokens, or applications that provide all these features that Halo Platform does.

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There are few or no high volume exchanges with proper load balancing for zero trading lag.

There are no decentralized exchanges that provide smart, safe, consensus-driven token creation.

There are no exchanges with marketplaces that offer solid business tools and financial tracking.