



Web3

DOMAINS.AUCTION

Powered by



agaamin.in Technology (India)

White Paper

Website: Web3Domains.auction

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1 Introduction

Blockchain based naming systems evolved from the traditional Domain Name System (DNS). The main purpose of DNS is to translate human-readable domain names to corresponding IP addresses which identify resources on the Internet. This resolution is done by using domain name servers which are centralized and typically owned by some large organization that provides authority.

Handshake [1] is open sourced and decentralized naming system (DNS) on the handshake.org blockchain. Handshake ecosystem supports the resolution of domains, to different types of resources depending on the desired use case. If you want to make a crypto payment to the domain, it will be resolved to the owner's wallet address, but when searching for the domain in your browser it will instead be resolved to the website's content hash (using other distributed storage systems, such as IPFS). Domains can also be used to store other personal information to be publicly available on the blockchain, like contact information (email, Twitter handle, etc.) or other cryptocurrency addresses.

It's a new approach to domain name ownership. It means bypassing the traditional organizations and registries that call the shots online – offering you more freedom, control, and security over your domain. You're also free to choose unique domain names that aren't limited to .com, .org, .

Since every domain is represented as an NFT (non-fungible token) it can be freely traded with other market participants. We intend to provide several registrars and marketplaces to facilitate easier exchanges for owners to list their domains for sale and for buyers to buy them.

We are the first Handshake brokers to have sold ICE.C to [ICE.COM](https://www.ice.com) *NYSE owners this January and the first marketplace to offer premium web3 Domains for sale. This December 2022 we have partnered with the best voice of Handshake, Mr Sajan Nair who is the founder of [agaamin.in](https://www.agaamin.in). He is also the TLD owner of .erupi and other which is a registry/ registrar and marketplace launched on 1st December 2022, on the same day the Government of India launched their digital erupi.

Web3Domains.auction and Agaamin.in have partnered to build and promote their respective registrars to help the 8 billions humans connect and own their Web3 IDs.

[Agaamin.in](https://www.agaamin.in) will promote to the 1.4B Indians in India and around the world their TLDs, including .Web3India and .MauritiusIsland which are both the TLDs and IPs of Web3Domains.auction.

2 Preliminaries

Before we dive into our registrar software and marketplaces we would first like to provide some necessary technical background and list our TLDs which are now our IPs and Digital Assets.

2.1 Domains on Handshake

Several domain based projects already exist on the Ethererum blockchain [2], ENS.Domains and most notably Ethereum Name Service [2] (ENS) and Unstoppable Domains [5]. Both of them use a very similar architecture for their blockchain naming systems. The main smart contract is called

the Registry, which contains a mapping from domain names to their Resolvers. Each Resolver is another smart contract, which maps domain names to their actual records (for example Ethereum addresses or content hashes). Therefore, to resolve a domain, one first has to look up the correct Resolver in the Registry and then perform the actual resolution. Since Ethereum often has periods of very high transaction traffic, which leads to extreme transactions fees, Ethereum based projects inevitably inherit these drawbacks. This was one of the main reasons why we chose Handshake as the platform for our project, because we can benefit from its low transaction fees and higher throughput. Actually according to coinGecko there are a market cap of less than 300M HNS which are burnt on the blockchain. Hence this will make HNS coins and Web3 Asset very valuable as they become scarce.

2.2 Handshake Blockchain

What are Handshake domains?

Handshake domains is a decentralized public registry built on blockchain technology. They have a unique approach to how domains are owned. Simply put they offer NFT domain names in a way where they aren't controlled by any third-party traditional organization hence creating a safe, secure and free control over the NFT domain name that you own. The naming system allows you to integrate conventional names onto the blockchain too while also having the benefits that you would get with their ecosystem.

Currently their list of TLDs include:

- .C
- .creator
- .elite
- .illp
- .oh
- .oo
- .oot
- .orb
- .p
- .pgp
- .saas
- .sox

The point to be noted here is that this is a tentative list open for additions later on. These crypto domains are also non-readable on conventional browsers and require either a Web3 browser or additional setup systems on normal browsers. This additional setup, though not available through their ecosystem at the moment, maybe added as they progress.

It is important to note that handshake is not essentially a marketplace for NFT domain names. Even though you can mint domains and even offer a price to listed domain names on other marketplaces or directly to the owners, there is no P2P trading system in their ecosystem.

The most notable difference between the Handshake and the Ethereum blockchains is the accounting model used. Ethereum uses account-based ledger model, which represents the state of the system as a collection of accounts (controlled by private keys or smart contracts), which hold balances of different assets. When a transaction happens, one (or more) of the sender's account balances are decreased and the corresponding receiver's account balances are increased. If the account is controlled by a smart contract, it can also store additional data and implement functions to interact with it. This global state is constantly updated by every validator in the network.

2.3 Our Handshake TLDs

Our partner agaamin.in has in excess of 3000+ TLDs in several languages and also Flag+FaceEmojis, which they plan to launch in 2023, Web3Domains.auction own the top 30 Web3 + Country + City which we launching .Web3India and .MauritiusIsland on agaamin.in registrar as a test this 2023.

Our plan is this 2023 to update our Wordpress Marketplace to [Agaamin.in](https://agaamin.in) registrar and marketplace - agaamin.in/martetplace.php

The registrar works on an automated system where buyers can search for their desired Smart Names and the Handshake registry issues Web3 ID on the TLDs, the registrar then send an invoice to the new client to make payment the first \$5 for his Smart Name and Web3 ID on our TLDs, they agree to renewal it at \$10 in the second year.

We plan to launch 25 TLDs targeted all the Web3 enthusiasts in these populous region in India (1.4B), France (68M), Japan (125M), Australia (20m)and more countries and cities across the globe.

Everyone wil require their Smart Names and we offering them to secure on our .Web3India,.Web3France, .Web3Japan Geo TLDs.

3 Project Architecture & R&D

We have build two marketplaces first our partner [Agaamin.in](https://agaamin.in) is built on .PHP and [Web3Domains.auction](https://web3domains.auction) is built on wordpress.org we are now looking to upgrade our marketplaces and also integrated the several dApps from several Web3 partners like <https://paywong.com> [3]who approached us to facilitate crypto payment of our Web3 digital assets.

Note that we will be selling both SLDs - premium domains we acquired as well as SLDs on our own TLDs on our own Registrar as well as on all Handshake Registrars who all accept HNS TLDs such as:

namecheap.com
porkbun.com
encirca.com
101domain.com

Our partner is also working on an UPI app on a Handshake ID hence completely making user privacy their mobile phone private and their real name.

My mobile +230 57 94 64 37 becomes Sebastien.Web3France or I can secure S.S on the .S TLD which the Namecheap.com CEO owns and his also

marketing and selling on his Registrar which happens to be the US 2nd biggest registrar.

We are at the forefront of completely Freeing the Internet, Handshake allows such decentralisation, there are 8 millions TLDs created. That is 4x more registrations than .ETH or any Unstoppable Domains [3] wit their .crypto . nft .bitcoin .blockchain TLDs.

4- HNS Hosting and Browsers

Handshake decentralizes the process of applying, creating, and managing TLDs on the blockchain. Anyone can buy or sell TLDs using the HNS coin native to the Handshake blockchain. By removing centralized bodies from making the decisions on what or who can register and manage TLDs, Handshake allows for the root zone to be uncensorable and permissionless. No single entity takes control over the data stored in the system, and anyone can access it if they have enough HNS to participate. The whole process is codified into the HNS protocol itself, and no individual can undergo the process without community consensus. If you'd like to read a more detailed explanation, specific information about the Handshake protocol design is well documented in the Handshake whitepaper. Each peer in the network validates and manages the root DNS naming zone, making centralized governing bodies unnecessary for managing the DNS root zone. It stores the root zone in the form of decentralized blockchain transactions where every transaction is cryptographically validated by every peer in the network. The root zone stored in the blockchain is the source of truth. Ownership information is stored in an encrypted state to ensure the privacy of TLD owners.

Handshake remove the need for centralized Certificate Authorities (CA) for signing SSL certificates. Currently, SSL certificates are authorized by trust anchors which represent a CA. The trust anchor certificate is used to verify the signature on a certificate that was issued by a CA, and comes pre-installed on devices. This comes with its own challenges. However, the DANE security protocol (DNS-based Authentication of Named Entities) exists and allows a browser, for example, to check the TLSA (TLS Authentication) DNS record of a domain, and verify the authenticity of a certificate provided by the webserver behind the domain - without needing an additional trust anchor. It relies solely on the TLSA record to verify the authenticity of the issued certificate for a given domain. It's important to note that the Handshake blockchain is only concerned with first-level TLDs - no second-level TLD (SLD) records can be managed. This means, in practice, that you cannot apply for mydomain.mytld in Handshake. Handshake will only be responsible for creating and storing the mytld TLD. TLD owners will need to set the appropriate name servers entries for the TLD in the Handshake blockchain to delegate the TLD zone to a DNS hosting service if they want to rent or allow the registration of second-level domains. For example, with the current registry-registrar-registrant state of affairs, anyone can apply for a TLD in Handshake. You can then become a registry, and open registration of domain names under your own TLD. You can either develop your own registrar implementation, or rent your TLD to one of the already available HNS registry platforms. A few HNS registrars exist that allow individuals to acquire a second-level domain from a TLD they don't own which I have listed above.

Accessing domains on the Handshake blockchain/protocol

You can access domains on the Handshake blockchain with these methods (this list is non-exhaustive)

[NextDNS.io](#) Secure DNS resolution as a service with both free and paid tiers. It supports a number of different blockchain-based DNS projects, including Handshake. You can enable Handshake resolution with a click of a button.

[Fingertip](#) Fingertip is an open-source project that runs a lightweight Handshake client that syncs with the blockchain and allows for local domain resolution. This is considered one of the more secure, privacy-oriented options. It doesn't rely on any third-party, like NextDNS, to resolve Handshake domains, instead reading directly from the blockchain.

[Beacon Web Browser](#) A Chromium-based web browser with a built-in HNS resolver.

[HNSD](#) HNSD is an official lightweight recursive DNS resolver that pulls down the Handshake blockchain and directly reads from it. It's also what Fingertip uses under the hood.

Brave, Opera and Puma Browser have also revolves HNS. Once Google does this we will get mass adoption. But again, our point is that people wont use Blockchain domains for Website but as Web3 ID to login, trade NFT receive crypto via UPI and more. It is a matter of time before Android and IOS resolves all the blockchain domains onto their mobile phone to allow smart names to work 100%.

5.1 Marketplace

We have built a decentralized marketplace for domains as part of our platform. We also believe that this will bring more engagement to our community and help with spreading the word about our project. We wish to now upgrade our platform to connect wallet on multi chain so to allow

References

- [1] [Handhsake.org](#)
- [2] [Ethereum Name Service, https://docs.ens.domains](https://docs.ens.domains)
- [3] [Paywong.com](#)
- [4] [Unstoppable Domains, https://docs.unstoppabledomains.com](https://docs.unstoppabledomains.com)
- [5] <https://blog.dnsimple.com/2022/04/introducing-handshake-domain-support/>