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# Welcome to ATOR

For Anonymity at Scale

> **The gas-less ATOR Registration Protocol beta is now live!**
>
> Register your relay today at our beta dashboard https://ator-dashboard.ar-io.dev/
>
> Want to set up a relay? Check out our educational relay series: https://www.youtube.com/@atorprotocol

## Introduction

ATOR empowers decentralized internet relay operators through on-chain recognition rewards, and facilitates wider provision of open and anonymous protocols through our hardware. ATOR contributes the following:

1. The ATOR Protocol: an autonomous system for relay operators to register an ERC20 wallet to receive on-chain recognition in our native token, ATOR. Tokens are paid out in accordance to useful activity on registered protocols, starting with the Tor network. The ATOR protocol encompasses gas-less

registration, trustless validation, and automatic distribution.

2. ATOR Relay Hardware: a low-powered computing device, configurable to operate within the ATOR Protocol, allowing non-technical users to contribute to decentralized internet protocols and receive the ATOR token passively.
3. ATOR Decentralized Services: a framework for the provision of specialized services, built onto registered protocols, and transacted through the ATOR token. Services provided include applications managed by the ATOR team, services built to run on ATOR relays (with or without modular upgrades), and services provided by third parties. Service providers are paid via pools, with a payment system built for obscurity.
4. ATOR Token DAO: the transition of our protocol into decentralized management, with a DAO governing multiple protocols and their reward pools within the ecosystem. The ATOR token will be the primary driver of governance, while also fulfilling a number of other use cases around incentives, products and recognition.

## Vision

We consider internet autonomy a fundamental right but, across the world, internet users have grown accustomed to unconsented collection, censorship and monetization of their data. The incumbent internet services that we rely on were built for centralized control, and to take back our rights, we need to take back that

control. To be autonomous and, importantly, anonymous on the internet, we cannot rely purely on the guidelines put up by a single entity. Be it for communication, computation, or simply browsing, a correctly structured and provisioned decentralized solution beats out a centralized one, every time. And that's why we're here.

## Get Started

> **Frequent Links**
>
> Website: https://ator.io
>
> Docs: https://docs.ator.io
>
> Twitter: https://twitter.com/atorprotocol
>
> Announcements: https://t.me/atorprotocol
>
> Official Discussion: https://t.me/atorofficialportal
>
> Discord: https://discord.gg/ator

**Token Address (Ethereum Mainnet)**

```
0x0F7B3F5a8FeD821c5eb60049538a548dB2D
```

*ATOR is not a subsidiary of Tor, nor is it endorsed by Tor. Any opinions or views expressed by the Tor team are not associated, nor a direct reflection of the team at ATOR.

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# The ATOR Protocol

## The Problem

In the age of big data, censorship, and the monetization of our internet activity, privacy and self-sufficiency has increasingly become a luxury. It is becoming clearer that, so long as internet users rely on protocols administered by large corporations, built with privacy as an afterthought, it cannot be achieved. A truly open protocol must rely on independant relay operators to truly be considered decentralized.

To enhance the decentralization and increase the number of relays available for open protocols, ATOR exists to educate and recognize relay operators world wide. ATOR is a community of independent relay operators running open sourced protocols enhancing decentralization. Recognition tokens are rewarded to operators, who can choose to keep these tokens as a measure of their contribution, exchange them for our hardware or services on decentralized networks, or contribute to further education and outreach. With an initial focus on anonymity and security, our community started running Tor relays, as we build out support for the broader onion routing network. We will support other open open protocols as our community

develops and becomes more decentralized.

Onion routing networks enable greater internet anonymity and censorship resistance by routing users' internet activity through 3 independently operated 'nodes', while open protocols such as Nostr focuses on using relays to propagate social media and publications. Countless other decentralized alternatives for file sharing, computation models and more exist that could be empowered by the protocol. But whether for anonymity or autonomy, ATOR strives to ensure privacy in interacting with the protocol regardless of the network.

> ⓘ Find out more about The Onion Router and its peer-to-peer routing network that makes it work on the foundation website. Note that ATOR is not affiliated with The Tor Project

## The Protocol

The ATOR Protocol is built to recognize the useful contribution of relay operators to decentralized networks, through the distribution of ATOR tokens. For supported protocols, such as Tor, operators register their relay with their ETH address and then continue operating as a relay.

Relay operators will then be able to see

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ATOR recognition rewards accordingly.

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withdraw to their ETH wallet.

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# Registration

Bridging disparate signing curves to enable recognition

To register a relay with an ETH wallet, such that the ETH wallet can be rewarded $ATOR in accordance to the metrics of the relay, a dual-signing system is needed.

## ETH Wallet Signing Ownership of Relay

Our registration dashboard will allow an ETH wallet to sign a message conveying a desire to participate in the protocol, and claim ownership of a specific relay fingerprint. This claim is then verified by ATOR or a delegated key pair with the authority to validate claims (essentially, our oracle). Importantly, the registration dashboard will be hosted on a decentralized storage network, preventing ATOR or any other individual hosting provider from viewing registrants' IP addresses. Additionally, registration is completely gas-less.

## Relay Broadcasting ETH Wallet

As part of the registration protocol, relays have to include the ATOR protocol header and the ETH address that is registering the relay, for as long as the relay operator wishes to receive ATOR rewards. ATOR will parse raw metrics to verify claims.

**The gas-less ATOR Registration Protocol beta is now live!**

Register your relay today at our beta dashboard https://ator-dashboard.ar-io.dev/

Want to set up a relay? Check out our educational relay series: https://www.youtube.com/@atorprotocol


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# Validation

Registered relays are rewarded ATOR in proportion to their useful contribution to their respective network. Our off-chain validation servers ingest trusted metrics and feed this information onto the blockchain as 'source of truth', after which permitted smart contracts then assign operators rewards.

## Consensus Weight

For our first registered protocol, The Onion Router, we mirror the existing Consensus Weight metric to ascertain useful contribution for a registered relay. Consensus Weight accounts for factors such as bandwidth, and reflects the growing traffic often assigned to a newly registered relay.

> Find out more about The Onion Router and the Tor Project on their website

## Arweave Metrics

Our collected metrics are published in close-to real time on Arweave, permaweb storage powered by blockchain. These metrics then act as an endpoint for downstream smart contracts, primarily smartweave (smart contracting built directly onto the Arweave ecosystem).

However, our metrics are also accessible via our request protocol by third parties.

> **Build on our metrics!**
>
> We've developed novel data structures that builders can employ to query our published metrics. Specify exact queries to retrieve data following our structure using GraphQL, following the structure outlined below: https://github.com/ATOR-Development/valid-ator#protocol-data-structures

## Smartweave Oracle

ATOR assigned for a given, fixed time period (such as a day) is apportioned for the interval since the last published metric (so a 70-minute interval between the previous metric read will mean the next set of metrics will determine ATOR distribution for 70 / (24*60) of the predetermined daily distribution - find out more about our tokenomics in our tokenomics paper). A dedicated 'ATOR' token is then distributed on Smartweave, which can then be read lazily by our ETH distribution contract using the validator oracle.

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GitHub

See our GitHub and issues live!

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# Introducing our Relay

Render of the ATOR Relay v1 Prototype

The ATOR Relay is a low-power, autonomous computing device built to run as a node in a number of distributed privacy protocols. It is designed to function seamlessly with the ATOR Protocol, empowering non-technical users to contribute to global anonymity and gain ATOR recognition tokens. Currently in active development, we are on track to begin preorder from Q4 2023.

While most internet relay protocols can be operated on from a user's personal computer, this often becomes highly wasteful and can drain computing power if the device is also used on a day-to-day basis. The ATOR Relay can act as a dedicated, low-power relay device and is configurable with little to no technical knowledge. The relay hardware will have the modular capacity to incorporate more networks in the future (such as Nostr) and gives users access to downloadable

firmware updates that relate to the relay and metrics from our team.

## Specifications

Our relay hardware has been specially designed for this use case, capable of operating with a user's home WiFi or ethernet connection with minimal setup. We offer the following specifications (subject to change before first release)

**Compute**

Dual-Cortex 1.5GHz CPU

4GB LPDDR4 RAM

64Gb eMMC Storage

**Connect**

1000 Mbps Ethernet

WiFi 802.11 n/ac with antenna connectivity

Configurable via USB on the ATOR dashboard

USB A and C ports

**Security**

Encryption chip

CryptoAuth key generation

Software downloaded by end-user

**Physical**

USB C 12V power

Small and lightweight: 60cm^2 anodized aluminium

Slots for wall-mounting

Inbuilt fan with ventilation

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# Roadmap

## Phase 1: Project Launch ☑️

### Phase 1a: ERC20 Token Launch

: February 2023

Launch of the ERC20 token - ATOR, on the Ethereum mainnet. ATOR was paired with WETH. on Uniswap on launch under an allocation listed in our tokenomics section.

> ✅ Completion Note: ATOR is now also available on MEXC exchange

> ℹ️ Note: ATOR is now represented by ATOR Labs LLC based in Norway

### Phase 1b: ATOR at ETH Denver

: March 2023

Representatives of ATOR will be present at the ETH Denver conference, available to meet to discuss the protocol and connect with builders operating in the decentralized and privacy space. We will also demonstrate the relatively low computing requirements for a Tor Relay,

by running one on existing microprocessor hardware live at the venue.

> Completion Note: Our team representatives were fortunate to address our community live from the venue and speak to representatives of The Tor Project (note that ATOR is not directly affiliated with Tor)

**Phase 1c: Architecture and Technical Whitepaper**

: March 2023

ATOR will release its first iteration of our Technical Whitepaper, intended to be a living document outlining our architectural and system design approach to building out the ATOR Protocol.

> Completion Note: Our Technical Whitepaper is available to read on our GitHub

## Phase 2: Relays, Registration and Metrics

**Phase 2a: Develop Private Relay Registration**

: Q2 2023

The ATOR dashboard will release to onboard existing relays into the ATOR incentive ecosystem. Owners can register their relay fingerprints of active Tor nodes, as well as an ERC20 wallet that receives recognition rewards.

> ✅ Completion Note: The ATOR Dashboard allows for gasless registration, meaning ETH wallets can sign ownership of relays with a gasless signature that is validated off-chain, and published to Arweave. Follow our education series to set up your Tor relay configuration to automatically register

**Phase 2b: Kickstart relay registration through education series**

: Q2 2023

Education and outreach is at the forefront of our mission - it is ultimately relay operators and believers in privacy who will create the change needed to transform the internet. ATOR will release an education series for establishing relays, across platforms.

> ✅ Completion Note: Education and outreach is ongoing! You can see our education series live as it continues to develop and evolve
>
> ATOR Relay Education: Youtube (@atorprotocol)
>
> ATOR Relay Education: Written (educ.ator.io)

**Phase 2c: Create Consensus Weight Metrics**

: Q2 2023

Formerly referred to as Proof-of-Uptime, ATOR's primary metric for relay contribution to the network is Consensus Weight. ATOR will build a self-running network of validation servers to collate and push to-chain relay bandwidth and conensus metrics.

> Completion Note: ATOR's Validator network is now live and functional across our distributed private cloud of bare-metal servers. Our metrics are published immutably to Arweave, and can be queried via GraphQL as outlined in our valid-ator repo.

## Phase 3: ATOR Relay v1 and Protocol Validators

**Phase 3a: BoM and PCB Prototypes for the ATOR Relay**

: Q3 2023

Transition from existing microcontrollers to own-hardware. Scope out the ATOR Relay, a low-powered device suited for acting as a relay in decentralized networks such as Tor and Nostr, and built to be plug-and-play for the non-technical user.

> Completion Note: ATOR has onboarded a dedicated hardware division, that has rapidly built up the internals of the ATOR Relay - a combination of dedicated sourced single-

board computers with custom PCBs with cooling, interface and encryption modules

https://twitter.com/atorprotocol/status/1666895209446387713?s=20

https://twitter.com/atorprotocol/status/1668650003903152129?s=20

**Phase 3b: ATOR Relay Physical v1 Manufacture**

: Q3 2023

Manufacture the first batch of the ATOR Relay, combining technical specifications, part assembly and sleek design. Build out firmware and onboarding scripts for ease-of installation and configuration.

Completion Note: We are thrilled to share images of the first working samples of the ATOR Relay

https://twitter.com/atorprotocol/status/1678799939139403777?s=20

**Phase 3c: Deploying Validator Server and Smartweave Aggregation**

Deploy the validator servers with

> ✅ Completion Note: Our distributed vault servers are active, enabling secure security for validator keys. In addition, working with Redstone Finance Oracle, we are have developed a novel method to push mappings through a cross-chain oracle funded at point-of-claim

## Phase 4: Protocol Beta and Hardware Distribution

**Phase 4a: ATOR Protocol live on Goerli testnet**

: Q4 2023

Registered relays will be able to see their cumulative contribution to the network on the dashboard and claim testnet tokens, as the protocol is live and bountied to ensure its resilience once live.

> ✅ Completion Note: ATOR entered Goerli Testnet on 21st August 2023, ahead of original schedule! Our dashboard is now live and connects to Goerli testnet, and has a new distribution and claim page. To triage issues and feature requests, we have created the ATOR Development channel.

**Phase 4b: First preorder of ATOR Relay Hardware**

: Q4 2023

The ATOR Relay, configurable from our dashboard, will have its first batch pre-order. The first 1000 units will be preordered through a series of NFT sales. Details can be found in the Tokenomics report.

**Phase 4c: ATOR Protocol live on ETH Mainnet**

: Q1 2024

The ATOR Protocol v1 will be live, enabling registered Tor relays to receive the ATOR token in accordance to their useful contribution to the network, as determined by consensus weight. Users will be able to see their rewards, updated at high frequency, and claim them from Arweave to ETH on the dashboard.

## Phase 5: Wider Scope and Decentralization

**Phase 5a: Decentralized Control to the ATOR DAO**

: Q1 2024 / Q2 2024

Building out a novel DAO allowing holders to double-stake to vote on new protocol addition, the relative recognition pools allocated to protocols, and the type of metrics to encourage or discourage across our growing fleet of relays

**Phase 5b: Integration with additional distributed networks**

: Q3 2024

Our chain-agnostic validator fleet will expand to acommodate metrics for relay operators in other networks furthering

global anonymity and sovereignty, such as Nostr.

## Phase 6+ Onion Services and Third-Party Pools

*Our current focus is on delivering an enterprise-level protocol, to make an immediate and tangible impact on the decentralized networks that change the world. However, the following follows naturally from the development of the v1 protocol*

### Phase 5a: ATOR Team's Own Services

ATOR will deploy their own onion services, bringing new levels of anonymity to existing on and off-chain services

### Phase 5b: Introduction of third-party pools

Third party service providers will be able to create their own reward pools, competing with the existing rewards for relay computation, allowing relays to host endpoints for networks (such as exit relays for onion services). Existing web services can find anonymous mirrors, ensuring user anonymity and service-provider privacy.

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# ERC20 Launch

## Decentralization for the entire product life cycle

The $ATOR ERC20 token will fulfil a number of crucial functions across the growth of the ATOR Project:

- Fundamentally, the ATOR Proof-of-Uptime protocol will be facilitated through the $ATOR token; incentives for registered relays are paid in it. As such, $ATOR tokenizes recognition for contributory relays
- The $ATOR token supply circulating on the Uniswap AMM enable investors to assign market value to the protocol as a whole, and hold a stake in its growth and impact
- $ATOR holders will be entitled to whitelist and gain early access to our first rollouts of custom hardware. Tokens will be redeemable for this hardware (see Roadmap)
- The $ATOR ERC20 contract is custom-built to facilitate a time-limited raise; the contract swaps tokens in strict proportion to trading volume, up to a hardcoded limit, without charging buyers and sellers trading fees. It allows the ATOR protocol to raise funds for developments without the

centralization of Venture Capital (see Allocation)

Launching as a token on the preexisting, highly decentralized Ethereum blockchain, as opposed to an independent blockchain allows for rapid adoption and ease of registration.

### $ATOR Token (Ethereum)

```
0x0F7B3F5a8FeD821c5eb60049538a548dB2D
```


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# Token Distribution

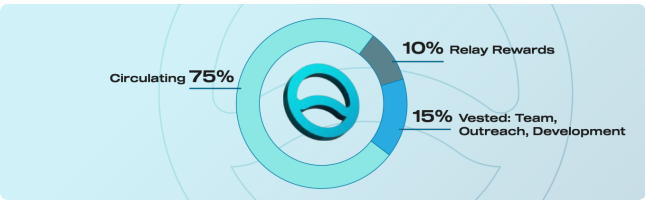
> For detailed Tokenomics information, check out Part I of the ATOR Tokenomics Report

## Allocation

The ATOR token is an ERC20 token with a fixed total supply of 100,000,000.

As of September 2023, 75% of ATOR token supply is circulating, with the remaining allocated as follows:

- 10% of supply will form the pool of tokens that fund the perpetual tokens rewards for Tor relays.
- 15% of supply is linearly vested over 18 months, supporting outreach, partnerships, development, listings and team funds.
- 75% is currently circulating, including tokens within LP pairs and exchanges.




## Funding

ATOR is a fair-launched token, with no presale or VC holding. Our unique raise contract used in the launch stage, and the 4/4 tax for trading ATOR on the Uniswap WETH/ATOR pair, have together enabled us to self-fund our mission without large institutional or VC holding. The application of linear vesting prevents sudden, large token unlocks that have caused issues for other newer cryptocurrencies.

The ATOR token contract has a 4% tax on both buys and sells when trading ATOR on the Uniswap WETH/ATOR pair. There is no fee on transferring tokens. The fees have been essential in enabling our astounding rate of development across enterprise level infrastructure, software, hardware, education and outreach. In addition, part of our fees is used for automatic liquidity, with over 700k USD of LP created, all of it burnt.

As ATOR solidifies its foundation, they will begin lowering fees from Q1 2024 with the eventual plan of being a 0-tax token.

**Note: Change in Source of Funds for Relay Rewards**

Following the 24th of August token unlock, the source of funds for the 10% recognition rewards changed from the 18-month vesting contract (address: 0×234...81b) to the token unlock. This is a move towards greater predictability and availability of funds, allowing the entire 10% to be moved to the facilitator vault shortly after mainnet launch.

The 10% of supply that makes up the base relay rewards is currently in 4 secured multi-signatory wallets and 1 locked wallet, for the duration of the current testnet period.

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# ERC20 Addresses

## Smart Contracts

### ATOR Token:

`0x0F7B3F5a8FeD821c5eb60049538a548dB2D`

### ATOR/WETH LP Token

`0xa7480AAfA8AD2af3ce24Ac6853F960AE6Ac`

## Wallets

### ATOR Development Wallet

`0x8FEACb307e2C0fDbe63efCC74Ea93742FC7`

### ATOR Operations Wallet

`0x7ccA2562ff85bdD45eD4BB99ccf32148AD4`

### ATOR Outreach Wallet

`0xe721089Dd63EDE1a65d50249d9c6A8106Aa`

# Relay Rewards

> Note: during out Testnet phase, the baseline ATOR rewards are held across 5 wallets, with 4 multi-signatory wallets and the present relay rewards wallet.

### ATOR Relay Rewards

```
0x985E41E5Db0fFA58F1723e7019Fa8aB2335
```

### Relay Rewards - MultiSig 1

```
0xC0b8b0F6A01556b83E3482e96C6218A2B78
```

### Relay Rewards - MultiSig 2

```
0x700b25929C4f8B37ce3cB5A34Fd12aC7Fe6
```

### Relay Rewards - MultiSig 3

```
0x3F5dA972E283d0BcA19b66d1ab95147313e
```

### Relay Rewards - MultiSig 4

```
0xb4d3FB8310800E4225f84dd71A657e1a38a
```


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# Relay Education

Contribute to decentralized networks today

Our Relay Education series is live on YouTube and in written form! While our protocol remains in development, we encourage all #atornauts to set up relays for registered protocol using their own hardware, so long as feasible and legally suitable. Our first relay series outlines registering a middle relay in the Tor network.

## Video Format (YouTube series)

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## Textual Format (educ.ator.io)

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# Whitepapers

## Tokenomics Paper

The ATOR Tokenomics paper part I and part II preview is a living document outlining the specific token allocations used to reward registered relays indefinitely via PoU. It also explores the potential for the ATOR ecosystem as a whole

https://github.com/ATOR-Developm...

## Technical Whitepaper

The ATOR Technical Whitepaper is a living document, charting the research that forms our foundation and the continuous technical development of our protocol.

resources/ATOR_Technical.pd...
GitHub

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Education makes a Movement

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Website: https://ator.io

Docs: https://docs.ator.io

Announcements: https://t.me/atorprotocol

## Social Media and Discussion

Twitter: https://twitter.com/atorprotocol

Discord: https://discord.gg/KvpAzuEzAQ

Official Discussion: https://t.me/atorofficialportal

Community Discussion: https://t.me/atorcommunityportal

Youtube: https://www.youtube.com/@atorprotocol

Medium: https://medium.com/@atorprotocol

## Development

Github: https://github.com/ATOR-Development

Dashboard: https://ator-dashboard.ar-io.dev/ and https://ator-dashboard.g8way.io/

Etherscan: https://etherscan.io/token/0×0F7B3F5a8FeD821c5eb60049538a548dB2D479ce

Development Channel: https://t.me/atordevelopment

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Open Source and Open to Contribution

## Discussion

Check out our Links page for social media and discussion forums

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## Developers

If you're a developer who's passionate about decentralization, sovereignty and privacy, we want to hear from you! Join our official discussion Telegram group for technical questions, or email our team at `team@ator.io`

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