

Commitment No. 202501/02

Applicant: Chums

Date: 28.04.2025

COMMITMENT STATUS UPDATE

Proxy Libraries for Everscale Domains

EXECUTIVE SUMMARY

[Chums](#) team is building a decentralized social platform for Web3 communities on the [Matrix](#) network, with a focus on cross-chain interoperability.

Under Commitment No. 202501/02, we have delivered proxy libraries and an on-chain hosting standard to expand the functionality of [Evername Domains](#), strengthen the utility of EVER tokens, and enhance Everscale's integration across Web3 ecosystems.

DELIVERABLES OVERVIEW

1. Domain Name Resolving Library

a. We have developed and published a cross-platform, **open-source library** that allows applications to **resolve .ever domains** into various resource types:

- DNS names (Web2)
- IPFS hashes
- TOR (.onion) addresses
- On-chain smart contract addresses
- Embedded HTML content

The library is implemented in **Rust**, released under the **Apache 2.0 license**, and publicly available at: <https://github.com/Chums-Team/web3-resolver>

b. We have developed **Chums Proxy**, a local proxy service enabling .ever domain resolution in browsers, written in **Rust** and released under the **Apache 2.0 license**:

<https://github.com/Chums-Team/chums-proxy>

c. We have released **flutter-chums-proxy**:

<https://github.com/Chums-Team/flutter-chums-proxy>

and **flutter-inappwebview-proxy-plugin**:

<https://github.com/Chums-Team/flutter-inappwebview-proxy-plugin> for Android and iOS integration under the **Apache 2.0 license**.

d. We have published a demonstration flutter **application chums-proxy-sample** under **AGPLv3 license**:

<https://github.com/Chums-Team/chums-proxy-sample>

2. On-Chain Hosting Standard

We have implemented support for existing domain record types based on the DeNS smart contract system:

<https://github.com/tonred/DeNS/tree/master>

In the DeNS smart contract system, domain records are represented as pairs of **uint32:TvmCell**. Within this structure, we use the following types:

- Types 1001, 1002, 1003, and 1004 store **<string>** values.
- Type 1005 stores an **<address>**.

Record Type	Description
0	Reserved for target record (currently unused)
1001	TOR (.onion) address
1002	IPFS CID
1003	DNS name
1004	Embedded HTML content stored directly in the domain record
1005	Address of an on-chain HTML hosting contract

Some of these records are used to store on-chain content associated with a domain. This enables minimal pages to be published entirely on-chain, without relying on external storage.

Our implementation is provided as a proof of concept and is not intended as a recommended approach for content storage. It demonstrates how identity-related data can be placed on-chain, but due to high replication cost and strict size limits, this approach is only appropriate for very limited use cases.

Note on Record **Type 1004**:

HTML content can be stored directly in a domain record, but is limited to a maximum of 8 cells (one cell reserved for service data and about 7 cells available for actual content, with each cell holding approximately 127 characters).

Note on Record **Type 1005**:

Record type 1005 stores the address of a smart contract that hosts on-chain HTML content.

When resolving this type, Chums Proxy interacts with the contract using the following method:

```
{
  "name": "getDetails",
  "inputs": [],
  "outputs": [
    {"name": "content", "type": "map(uint8,cell)"},
    {"name": "contentType", "type": "string"}
  ]
}
```

- **Function ID:** 0x13073fd7
- **content** is a map of fragments; the proxy collects content piece by piece, ordered by monotonically increasing keys.
- **contentType** is reserved for future proxy extensions and currently unused.

We have published a **reference implementation of such smart contract** under **Apache 2.0 license**:
<https://github.com/Chums-Team/everscale-onchain-site-contract>

3. All the documentation is publicly available through the respective repositories and accompanies the released codebases.

4. User Guidance and Common Questions

a. How to buy an .ever domain?

Chums team does not sell .ever domains. You can purchase them at evername.io.

b. How to set a TOR (onion) or DNS record?

After purchasing a domain, you can configure these records at app.evername.io in the domain management section.

c. How do I make a simple profile in HTML?

You can store a small piece of text in a Type 1004 record.

When opening your domain through Chums Proxy, this content will be displayed as a page.

To do this:

- Go to [Everscale Serializer](https://everscale.io/serializer).
- In the first input field, enter: string
- In the input field that appeared, paste your HTML text. Be sure to minify your HTML before that — this reduces size and removes unnecessary symbols. You can use any online minifier.
- Copy the **Output (cell)** content.
- Open your domain on everscan.io and connect your wallet.
- Go to the Source Code tab and find the setRecord, enter:
key = 1004,
value = your cell string,
Action type = Send,
Amount = 1 EVER,
Bounce = True.
- Click Send and sign the transaction.

Done, your site is now available! Chums Proxy has its own cache, so changes might not be visible immediately after an update.

d. I want a donation site like yours. How can I do that?

You need to deploy a smart contract for your site and set a Type 1005 record in your domain pointing to its address.

The reference contract and deployment instructions are available here:

<https://github.com/Chums-Team/everscale-onchain-site-contract>

We have also published **the code of our donation site** under **Apache 2.0 license**:

<https://github.com/Chums-Team/onchain-sites>

e. How can I run Chums Proxy locally?

You need to launch the Chums Proxy service: <https://github.com/Chums-Team/chums-proxy> and configure your browser to route traffic through the proxy.

f. Where can I see examples of .ever domain usage?

You can explore working examples through the following domains:

- <https://tor-proxy.chums.ever>
- <https://dns-proxy.chums.ever>
- <https://ipfs-proxy.chums.ever>
- <https://onchain-proxy.chums.ever>
- <https://onchain-site-proxy.chums.ever>

CONCLUSION

Following the successful completion of this commitment, we are proceeding to the post-release support and maintenance phase, including bug fixes and developer support through GitHub issue tracking for a period of two months:

<https://github.com/Chums-Team/>

For general questions and user support:

- Install the Chums Chat app:
[Google Play](#)
[App Store](#)
[Direct link](#) to APK download
- Register an account on the [everscale.chat](#) server or on the [chums.chat](#) server.
- Open Chums Chat, go to the Explore tab, and join the Support Room:
<https://chums.chat/#/%23support:chums.chat>