

Element - CaseStudy:101

Communications Protocol | Version 0.0.0

Author(s): DATRO Consortium

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CHAPTER

ONE

RELEASE NOTES AND NOTICES

This section provides information about what is new or changed, including urgent issues, documentation updates, maintenance, and new releases. - 'Updates' are the term used to describe significant changes to our public source code and/or records.

1.1 This Release (Version 0.0.0)

- 2021-Jul-31 Client rescheduled conference call and registred more users on matrix. \$url
- 2021-Jul-30 Integrated video/voice conferencing added e.g. jitsi.\$url1 & element.\$url1
- 2021-Jul-29 Server moved to be closer to core/backbone of infrastructure
- 2021-Jul-28 Conference call scheduled to discuss client had to cancel last minute
- 2021-Jul-26 Re-send clarification of registration process to client
- 2021-Jul-24 Client send url (matrix.\$url1) to register users using public gui e.g. element.io (messaging/fileshare only)
- 2021-Jul-22 `Two solutions in development \$url1 (standard/fallback) & \$url2 (high-security/main)'
- 2021-Jul-20 Client committed to "secure comms matrix server setup"

1.2 Older Versions

In the table below the last entry displays a link to an archived copy of the last report. To keep the filename from overflowing in the table below the name displayed may differ from the file name. The date the file was archived will differ from the date of the document label, which is its creation date. If you're viewing this document on a subdomain of .datro.world you may need to right-click and select 'open link in new tab'. In the interim of a bug fix, you can avoid right-clicking all together, by viewing our document library at its original location datro.xyz/static/library

Table 1: Older Versions of this Document

Archive Date	Version	Description	Download Link

1.3 Known and Corrected Issues

Below is a table of pending issues which have been reported to our team. When these issues are remedied, or any significant changed made, a new release will be published.

Table 2: Known Issues

Date	Version	Subject	Description
2021	0.0.0	security	'Having the domes H3 cell reference/ loca-
			tion in HotspotBnB prior to it autonomou-
			osly self-building is cool; but the solution
			must circumvent bad actors'

EXECUTIVE SUMMARY

DATRO is a for-profit consortium that is currently pioneering (and actively beta testing) its own web3.0 internet service along the 70km "Scottish Bay" caribbean coastline. This new fixed communications infrastructure comprises of geodesic communications equipment rooms (entitled "Neo Dome's"), which are solar powered and mesh together using licence-free Radio Frequencies (RF).

The entire network, including the communication rooms blueprints and OS (HotspotBnB), are in the public domain under a General Public Licence (GPL) - allowing anyone, anywhere to launch the same secure and decentralized network in their area. The purpose of this document is to introduce a cluster of secure messaging WebApp's adopted for rapid deployment via the HotspotBnB AppStore. On the infrastructure (the Neo Domes) will run the backend services e.g. Matrix Decentralized Messaging Server and Jitsi Voice/Video Conference Calling. The end-users wireless access points, also running the same "HotspotBnB" OS (but with different apps on the app store) will run the interface aspect e.g. Element (formerly named Riot) Element also runs as a secure mobile app, much the same as WhatsApp does (less centralised control and surveillance e.g. NSA & Facebook etc)

2.1 Solution & Outcomes

Secure Solution	High Security Solution	
vps	classified	
ssl	classified	
2048	classified	
	classified	

There's a 'self-service website '___ for experiencing H3 in action without having to set it up locally.

CHAPTER THREE

DOCUMENT AUTHOR(S):

3.1 DATRO Consortium