The Subspace Network Monthly Project Update | Nov 2021

By Subspace Network

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Welcome to the November Project Update from the Subspace Network!

Each month, the Subspace Network team publishes project updates to keep you informed on all the progress our team is making. Enjoy!

Subspace Relayer Service

The Kusama relayer is live! → https://testnet-relayer.subspace.network/ We are now backing up every block (from genesis) of the Kusama relay chain and every live parachain onto the Subspace *Aries* Test Net-

work. We were only able to achieve this by integrating with OnFinality's enhanced Public API, and we're grateful for the support we received from their engineering and marketing teams.

The folks at Parity were so excited about the Kusama relayer that they did a <u>featured blog post on Subspace → https://www.parity.io/blog/subspace-archiving-kusama-with-onfinality?utm_source=twitter&utm_medium=social&utm_campaign=subspace</u>! We also published our <u>own press release → https://medium.com/subspace-network/subspace-network-integrates-with-onfinality-to-make-kusama-more-decentralized-c94cf4ea4975</u>, and OnFinality <u>published a third. → https://onfinality.medium.com/onfinality-supports-subspace-network-to-bring-decentralized-storage-to-kusama-6bcc4ef0c3e1</u> Over the next month, we will be making joint announcements with each of the Kusama parachains we are currently archiving.

As new Kusama parachains come online, they will automatically be fetched by the relayer and archived on Subspace. We have also completed the archiving of the entire Polkadot network on our devnet and will soon be deploying to *Aries*.

Community and Ambassadors

Our community has been growing slowly but steadily. We have nearly reached 1000 followers on <u>Twitter → https://twitter.com/NetworkSubspace</u> and have almost 500 members each in our <u>Discord → https://discord.com/invite/K56A6xrdw9</u> and <u>Telegram → https://t.me/subspace_network</u> groups. Thanks to the help of our first cohort of apprentice ambassadors, we have been able to keep up with the influx of new members while keeping community chat lively and engaging.

We have already had two community calls with our ambassadors and have appreciated all of the excellent feedback given so far. Our ambassadors have also started the process of self-onboarding into our protocol and selecting their individual projects. We look

forward to seeing these completed in early January, when we will graduate our first cohort and begin reviewing applications for the second cohort.

Research & Engineering

We are delighted to announce that we have successfully completed our code review for Milestone One of the Substrate Builder's Program. We received lots of great feedback from the team there, and we look forward to working with them as we progress through our next milestone.

Basic retrievability is now working on the Aries Testnet! The backend farmer protocol has been extended to expose a public RPC endpoint that allows objects stored on Subspace to be retrieved by their *object_id* (hash). This milestone completes the primary storage and retrieval workflow we have long envisioned for Subspace.

Storage: *put(object) -> object_id*,

Retrieval: *get(object_id) -> object*

We have also completed the first version of Subspace.js → https://github.com/subspace/subspace.js, a simple client-side javascript library that masks all of the complexity of the Subspace blockchain and farmer network behind a simple *put, get* API, as described above.

After months of hard work and many false starts, we have finally achieved a working demonstration of decoupled execution (computation) within the Substrate framework, as described in our technical white paper. This major engineering milestone has opened our minds to the range of scalable compute that will soon be possible on Subspace.

Everyone has also been hard at work fixing bugs as they appear on our testnet and improving the user experience of syncing and running a farmer node. Now that we have completed the refactoring

of the farmer protocol into a modular library, we will soon be able to integrate it into the desktop farmer.

Next Steps

Over the next month, we plan to:

1. Start preparing to onboard community farmers onto the Aries testnet.
2. Begin testing an initial version of the desktop farmer.
3. Implement the final steps of our distributed storage network.
4. Deploy basic decoupled execution onto the Aries testnet.
5. Demonstrate NFT metadata projects on Statemine and Moonriver.
6. Begin archiving networks outside the Polkadot ecosystem.

Thanks for reading another issue, and stay tuned for more announcements and updates in the coming months!

Best,

The Subspace Network team.