

# Report & Proposal: High Performance Public Infrastructure (to 31st July)

**Proponent:** 0xf1cCF19F71D820dB4cd1263516a958D3E6272021

**Date:** 25th August 2022

**Requested:** GLMR 130,343.29

**Short description:** Ongoing costs for the running of high performance, scalable, and reliable public infrastructure for the Moonbeam networks.

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## Original Motivation

Since February 2021 we've provided a scalable free public API service so that everyone can access public pools of managed Moonbeam, Moonriver and Moonbase Alpha nodes. This provides the following three outcomes:

- Grow the ecosystem by reducing the barriers to entry to access a high performance nodes
- Help scale existing projects in the ecosystem by providing infrastructure services that can be depended on
- Assist with the testing of all networks by providing valuable data back to the community on how archive nodes are running and scaling as the network traffic increases

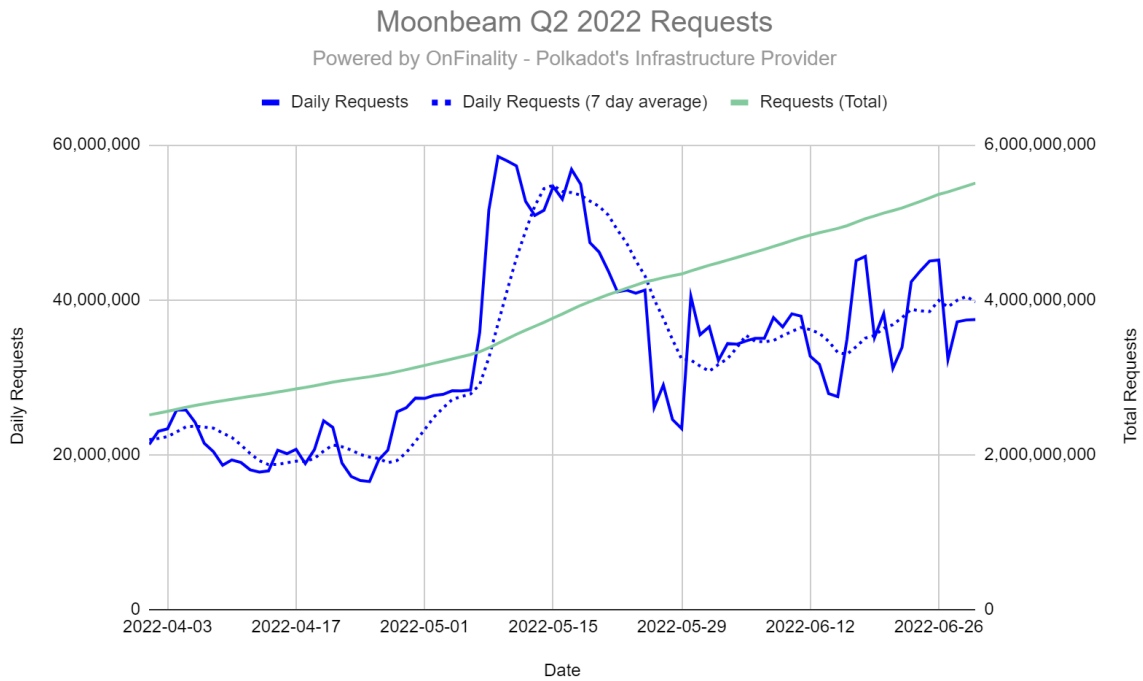
## Service Details and Enhancements

The time period from February 2021 to July 2022 was of huge growth for Moonbeam and OnFinality, this proposal only covers the period from the 1st February to 31st July. Over this period we served a total of 39,466,226,247.00 (39 billion) responses through our API service and almost 75 TB of data egress.

We've made significant enhancements to our service to better support Moonbeam including splitting and prioritising ethereum traffic to dedicated archive nodes. This has increased our node pool size but allows us to make significant optimisations in the effort to reduce latency and drive uptime. As a result, we have multiple clusters running in data centres around the world servicing tens of thousands of unique IP addresses.

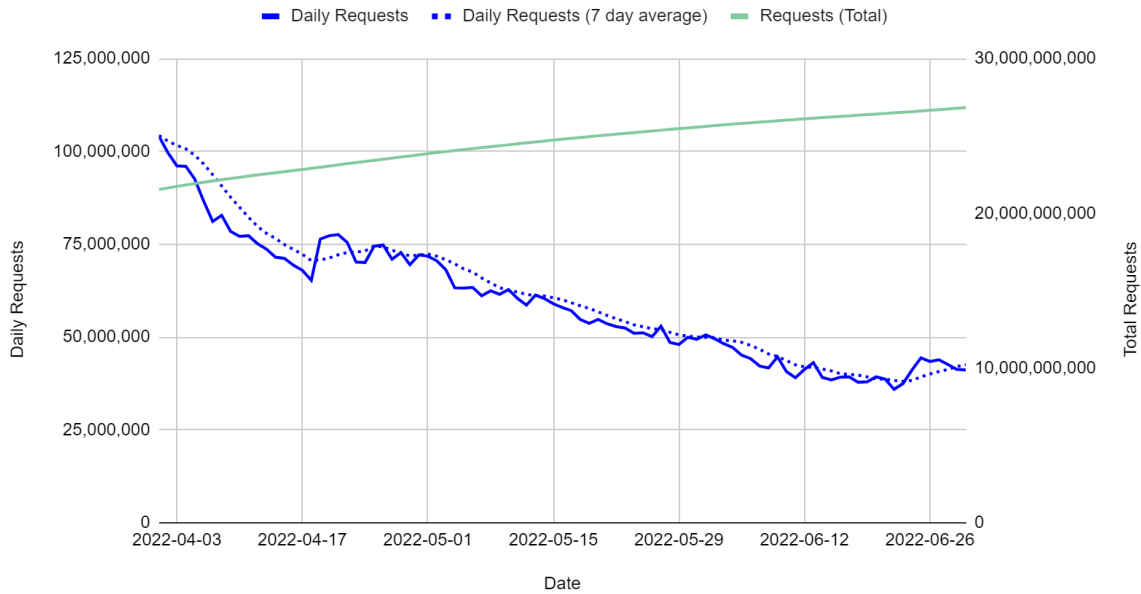
We continued to execute on our efforts to provide unprecedented service stability and reliability to this ecosystem. All supported networks exceeded our 99.9% target, including 100% uptime for Moonbeam and 99.98% for Moonbase Alpha over the last 90 days to 12th August. At this stage,

OnFinality is operationally striving for a minimum of 99.99% availability, which means less than an hour of downtime each year.



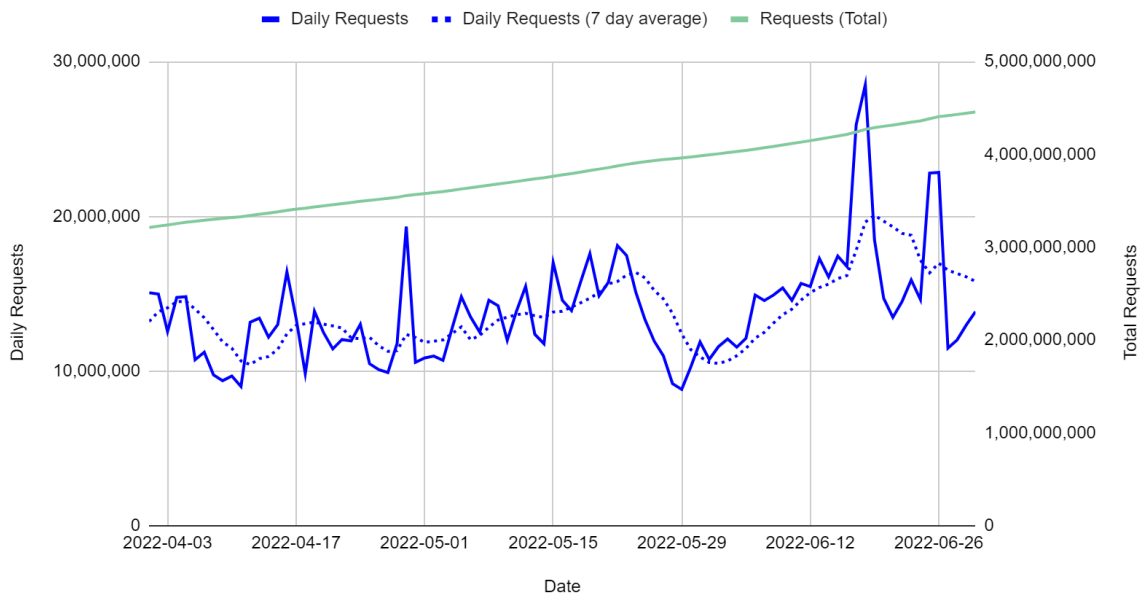
## Moonbeam Alpha Q2 2022 Requests

Powered by OnFinality - Polkadot's Infrastructure Provider



## Moonriver Q2 2022 Requests

Powered by OnFinality - Polkadot's Infrastructure Provider



## Enhancements

Additionally, we are proud to have delivered some key service enhancements that benefit the Polkadot ecosystem in the last quarter. This includes:

- New features to allow users that have deployed dedicated node to access the [internal prometheus metrics endpoints](#)

- A new feature called [API Apps](#), a container for your set of API keys, dashboards, and analytics all organised in one place within your OnFinality workspace.
- We now support over 60 networks across the Polkadot and Kusama ecosystem
- A variety of improvements to our health metric collection tools and automated recovery scripts to ensure our 99.9% SLA is exceeded.
- Scale improvements to our team, processes, and systems to allow us to provide this same service to **every** parachain team at launch

You can always see live data on our API service on our public [status page](#) and [analytics page](#).

## Costings

This proposal includes combined running costs for our infrastructure for all Moonbeam Networks. The total outstanding costs for these networks are 130,343.29 GLMR

## About OnFinality

[OnFinality](#) is a SaaS platform providing infrastructure services for the Polkadot/Substrate community. Our mission is to support all blockchain developers in the world by providing core infrastructure so they can focus on building the next dApp.

We continue to reaffirm our dedication to providing free support of 500,000 responses to our API service each day for users around the world. You can access our public API service by connecting to it using [Polkadot.js](#) or via the endpoints listed below. You can also [create your own free API key in our application](#) and track metrics and statistics.

- <https://moonbeam.api.onfinality.io/public>
- <wss://moonbeam.api.onfinality.io/public-ws>
- <https://moonbeam-alpha.api.onfinality.io/public>
- <wss://moonbeam-alpha.api.onfinality.io/public-ws>
- <https://moonriver.api.onfinality.io/public>
- <wss://moonriver.api.onfinality.io/public-ws>

*Our mission remains to support all blockchain developers in the world by providing core infrastructure so they can focus on building the next dApp.*

Payment Address: 0xf1cCF19F71D820dB4cd1263516a958D3E6272021