



DWELLIR

Moonbeam Public RPC
Dwellir Submission

Q2 2025 & Q3 2025

Table of Contents

Executive Summary	3
Background	4
Mission	4
Experience	4
Type of service and nodes	5
Connections and Node Methods	5
Location of Nodes	5
Geographical Performance	6
Boot Nodes	6
Previous Performance	7
Pricing Table	9

Executive Summary

Date: March 14, 2025

Cost for 6-months: USD \$10,913.06

Dwellir is committed to empowering developers worldwide by providing instant data access and robust infrastructure tailored for web3 applications. With extensive experience supporting Moonbeam, Moonriver, Moonbase Alpha, and over 100 other blockchain networks, Dwellir sets itself apart through its ownership and operation of dedicated bare metal servers. This infrastructure approach ensures superior performance, enhanced security, full control over configurations, and consistent reliability.

This proposal specifically seeks funding to continue providing fully managed Public Archival RPC services for the Moonbeam ecosystem, utilizing distinct and specialized node software that ensures optimal performance and security. Our infrastructure, strategically located across data centers in Sweden, Tunisia, and Singapore, guarantees high availability, fault tolerance, efficient load balancing, and seamless operational continuity during maintenance periods.

Recognized globally for exceptional geographical performance, Dwellir's service has **processed over 4.2 billion requests for the Moonbeam ecosystem from Q4 2024 to Q1 2025 alone**, demonstrating proven capability and robust scalability.

The proposed **budget of \$10,913.06 for six months** covers comprehensive operational requirements, including traffic management, storage, memory allocation, and CPU utilization, ensuring continuous, enterprise-level service delivery that directly contributes to the reliability and growth of the Moonbeam blockchain community.

News:

Dwellir has introduced GEO load balancing between our nodes in Europe and APAC (Singapore), ensuring a faster and more reliable experience for our users. By routing traffic to the closest and most responsive node, we minimize latency and enhance performance for Moonbeam applications. This upgrade strengthens our commitment to the community.

The new GEO load-balanced RPC endpoints have new URLs. Please update your configurations to the new URLs:

- **Moonbeam:** moonbeam-rpc.n.dwellir.com
- **Moonriver:** moonriver-rpc.n.dwellir.com
- **Moonbase:** moonbase-rpc.n.dwellir.com

The old endpoints (*.dwellir.com without [.n.](https://.n.dwellir.com)) will be decommissioned soon, so we strongly recommend switching to the new addresses as soon as possible to ensure uninterrupted service.

Background

Mission

The Dwellir mission is to serve developers worldwide with instant data access and a comprehensive suite of tools so that they can build web3 applications.

Experience

We currently run RPC services for Moonbeam, Moonriver and Moonbase Alpha and more than 100 other blockchain networks.

One of the key differentiators with Dwellir is that we own and operate our own bare metal machines which have several important effects.

Performance: Bare metal servers offer superior performance and low-latency communication, essential for decentralized networks to efficiently process transactions and reach consensus.

Security: Bare metal servers provide enhanced security and isolation, safeguarding sensitive data and assets in a decentralized network.

Control: With bare metal servers, node operators have full control over hardware and software configurations, ensuring adherence to network rules and consensus mechanisms.

Reliability: Bare metal servers offer robustness and stability, making them reliable choices for continuous operation in decentralized networks.

Expertise: Our team has a proven track record of creating tailor-made blockchain infrastructure that align with the Moonbeam community's specific needs.

Support: We don't just build and leave – our team stands by the community for the long haul. We engage with ongoing support, maintenance, and optimization services to keep the networks running smoothly and efficiently.

Proposal

Type of service and nodes

Dwellir provides three different services within the Moonbeam ecosystem:

1. Fully managed Public Archival RPCs
2. Fully managed Private Archival RPCs
3. An API Service (Shared Archival RPCs)

Each service area consumes its own node software. We **DO NOT** reuse nodes from one service for another. Eg. We do not use Public RPCs for our API customers.

The purposes of this proposal are to run a set of “Fully managed Public RPCs”. All of our nodes are archival nodes.

Connections and Node Methods

Dwellir sets max connections to 10,000 concurrent WebSockets. From time to time we increase this to 30,000 to deal with events such as the ordinals rush.

Dwellir maintains multiple 2 Gigabit external connections with the option to raise this to 10 Gigabit.

Dwellir allows for tracing methods including **eth_getLogs** as standard.

Location of Nodes

Dwellir owns all of our own hardware and current we host services across data centers in four locations:

1. Sweden (site 1)
2. Sweden (site 2)
3. Tunisia
4. Nigeria*
5. Singapore

*Nigeria is where we host services that are connected to the IBP program. These services **ARE NOT** included in this proposal. We **DO NOT** use that datacenter or equipment in order to fulfill other proposals.

There are several reasons why we run duplicated versions of our infrastructure:

High Availability and Fault Tolerance: By distributing archive nodes across different data centers, our infrastructure becomes more resilient to outages. If one data center goes down, others can seamlessly take over, ensuring uninterrupted service.

Load Balancing and Efficient Resource Utilization: Distributing the workload across multiple data centers can lead to more efficient use of resources. This allows for better management of peak load times and ensures that no single data center is overwhelmed.

Scheduled Maintenance Without Downtime: Having the infrastructure spread across multiple data centers allows for scheduled maintenance, security updates, or hardware improvements in one data center without causing downtime. This ensures that the service remains operational, providing continuous availability to users.

Geographical Performance

Our service is recognised as one of the highest performing globally. We recommend testing our nodes with CompareNodes (<https://www.comparenodes.com/>) without rate limits applied.

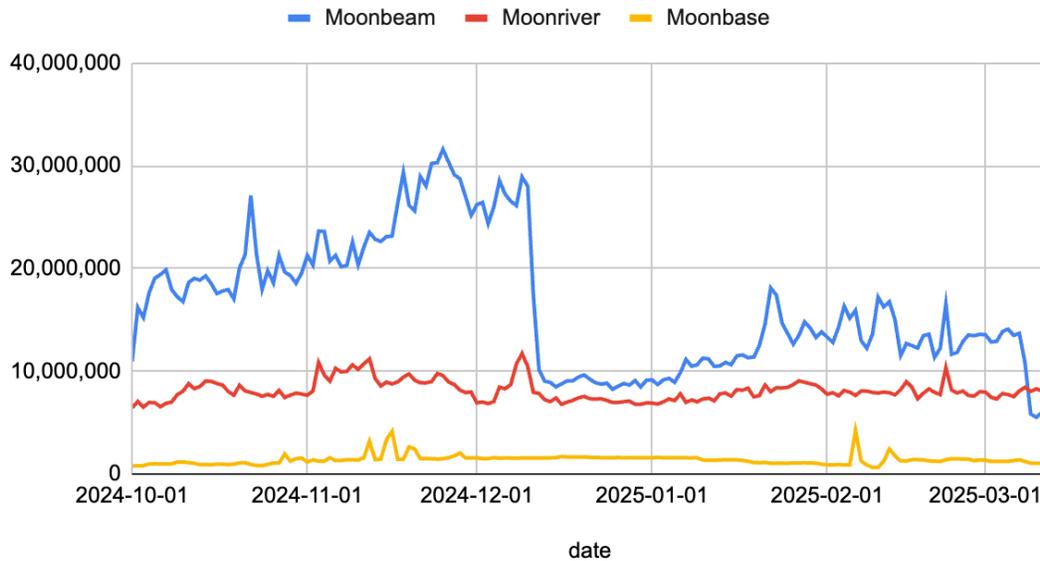
Boot Nodes

We are committed to continue operating boot nodes at **zero extra cost** for all services if successful.

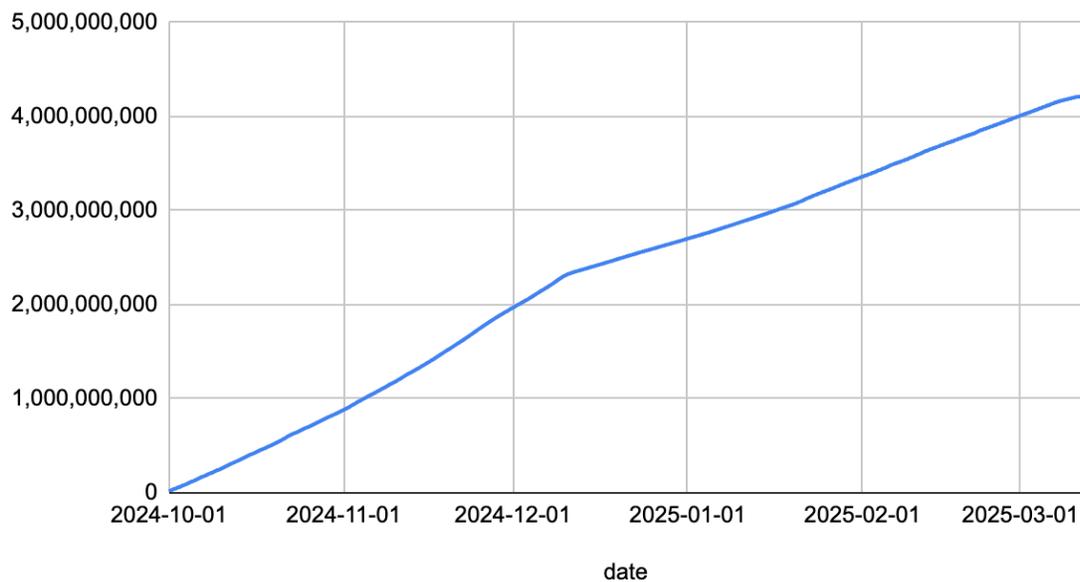
Previous Performance

During Q4 2024 and so far in Q1 2025 Dwellir processed 4.2 billion requests for the Moonbeam ecosystem.

Moonbeam Ecosystem Requests Per Chain / Per Day



Moonbeam Ecosystem Total Requests



Pricing Table

Chain	Traffic (GB)	Storage (GB/h)	Memory (GB/h)	CPU (Core/h)	Cost per month
Moonbeam	4600	3777652	6507	1257	759
Moonriver	5853	2497356	7491	2226	672
Moonbase alpha	1081	1439687	3613	157	302
Monthly Subtotal					\$1,732.23
Monthly Operations (5%)					\$86.61
Monthly Total					\$1,818.84
Quarterly Total					\$5,456.53
Six Months Total					\$10,913.06

Notes on price:

This data reflects primary production nodes and **DOES NOT** include backup services which are provisioned at our own cost to ensure reliability and performance.

This data reflects primary product nodes across four data centers as discussed in the location of nodes section.