

Soaring Demand for IP Addresses Calls for New Solutions Aligned with Founding Principles

Aligning IP Resource Solutions with Open Internet Values for Universal Access

LONDON, UK, August 24, 2023 /EINPresswire.com/ -- The Internet stands at a historic crossroads. Unprecedented demand for IP addresses from emerging technologies like 5G, the Internet of Things (IoT), and artificial intelligence (AI) is crashing against the rigid limitations of traditional allocation frameworks.

IP addresses are akin to the foundational threads weaving together all digital interactions. These unique identifiers form the basis of every online endeavor, enabling devices to communicate seamlessly across the globe.



Open Internet embodies the fundamental concept of an online space that fosters equal access, uninhibited expression, and unrestricted communication.

With [nearly 30 billion IoT devices expected by 2030](#), and digitization accelerating at warp speed, the pressure for IP resources is immense. This urgency is mirrored by the [UK government's launch of a £40 million fund](#) to ignite local digital revolutions and unlock 5G benefits across the nation.

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*Vincetas Grinius, CEO of
IPXO*

However, the processes for obtaining IP addresses often involve complex and time-consuming procedures due to restrictions on their availability. This situation is further compounded by challenges arising from legacy systems like the hierarchical Regional Internet Registry (RIR) model.

RIRs AND THE NEED FOR IPs

The RIR system, introduced in the 1990s, was a prudent response to coordinate global distribution of the limited IPv4 resources. However, approving and allocating IP address blocks through this rigid hierarchy has become an arduous process, with long waitlists and red tape.

This mismatch between soaring demand and constrained availability has birthed “gray markets” where addresses are resold outside official channels. Such workarounds highlight the thirst for readily accessible IP resources.

The resulting scarcity and fragmentation of IP addresses now threaten the universality and interoperability that are pillars of the open Internet. This is untenable at a time when seamless global connectivity is imperative.

Yet, innovative solutions exist that realign IP address management with the founding principles of cooperation, inclusion, accessibility, and human rights. IPXO is one such pioneering solution – a decentralized platform that provides instant, on-demand access to IP addresses as an open marketplace.

“By empowering users with streamlined access to IP addresses, IPXO supports growth and innovation across 5G, IoT, AI, and other emerging technologies, while upholding the spirit of the Open Internet,” says Vincentas Grinius, CEO of IPXO.

OPEN INTERNET PRINCIPLES AND CHALLENGES

The Open Internet, often referred to as Net Neutrality embodies the fundamental concept of an online space that fosters equal access, uninhibited expression, and unrestricted communication. In an open internet ecosystem, all users, regardless of their background or affiliations, are granted the same level of access to online content and services without any form of discrimination or interference from service providers.

By upholding principles of transparency, non-discrimination, and accessibility, the Open Internet encourages a level playing field where ideas can flourish, diverse voices can be heard, and progress knows no bounds.

“However, today, this openness is endangered by fragmentation from restrictive firewalls, contradictory regulations, and technical barriers,” warns Grinius. “We must reinforce the Internet’s universal connectivity and accessibility.”

China’s “Great Firewall” demonstrates how censorship and isolation policies fragment the global online community. Similarly, Russia’s legislation to block blacklisted websites sets a concerning precedent. Such restrictions inhibit the free flow of information.

Conflicting national regulations also threaten interoperability. For instance, the EU’s General Data

Protection Regulation has extraterritorial scope, while the USA's CLOUD Act compels US companies to provide data stored abroad. Navigating these contradictory laws is complex.

Meanwhile, technical barriers are emerging. China's proposal for a "New IP" architecture failed to gain traction but underscored the risks of reduced interoperability from proprietary protocols. Reinforcing unified technical infrastructure is essential.

To get detailed information on these topics, [click here](#).

NAVIGATING TOWARD THE FUTURE

"Working collectively is crucial to overcome these challenges," urges Grinius. "The path forward must ensure inclusivity, open standards, and equitable access to the IP resources that have been integral to defining the ethos of the Internet."

As we navigate these uncertain times, collaborative stewardship of Internet resources is paramount. With the accelerating pace of technological disruption, agile and proactive solutions are imperative to secure the Internet's future.

Platforms like IPXO offer promising new models that are instantly adaptable, boundlessly accessible, and steadfastly aligned with the principles of openness, inclusion, and democratization that fueled the Internet's meteoric rise.

By uniting as an Internet community, we can reinforce these essential foundations while enthusiastically embracing new technologies. Collective vigilance is key as we navigate this crossroads, steering the network's evolution toward its immense potential as a universal platform for human progress.

ABOUT IPXO:

IPXO is a leading IP address management platform, providing services to ISPs, telcos, hosting providers, and others. The company is at the forefront of addressing industry challenges such as IPv4 shortage, IPv6 adoption, management obstacles, IP defragmentation, and routing automation. With potential access to a vast number of 3.2M IPv4 addresses and a strong presence within the RIR community, IPXO is emerging as the business-critical infrastructure platform for enterprises worldwide.

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