Press Release

IP Technology Labs
Secure Networking Simplified™

IP Technology Labs Awarded Patents Expanding Enhanced Controllerless Load-Balancing for Reliable, Resilient, & Secure Connectivity

The invention provides broader integration to efficiently distribute network traffic without a controller to one or more centralized or distributed server resources. By placing the connection intelligence outside of a centralized location, the technology can make the best network connectivity decisions continuously without the reliability, performance, or security limitations of traditional load balancers.

BALTIMORE, Maryland, USA, August 16, 2024 - IP Technology Labs®, the American manufacturer of secure endpoint IT/OT connectivity and reliable remote access solutions, today announced that the United States Patent and Trademark Office issued US Patent #12,034,799 and #12,034,800 covering network reliability without using a controller or load balancer. The innovative technology allows the deployment of scaleable and redundant networks without the cost, complexities, or limitations of traditional redundant networking options.

Patent #12,034,799 enables remote appliances to provide system-wide connectivity logic and parameters, primarily for other remote connections. Patent #12,034,800 expands capabilities by enabling one or more independent servers or applications to provide connectivity logic for servers and applications for the complete system. Distributing network connection intelligence enables advanced SD-WAN connection applications as well as ensuring the best access even when the network becomes constrained.

Traditional load balancers operate ahead of network resources and thus are a performance and security vulnerability point. Additionally, algorithms used to distribute traffic are limited and focus only on the server. Unlike other scaleability and pooling solutions today, the invention puts intelligence in the endpoint and enables the remote application or device to make the best decision on what resources to connect to.

The patent covers techniques for scalable automated and stateless network connections without using a controller. By distributing network resource information, including resource selection metadata such as uptime, load, and security preference, any remote device or application can pick the best resource to connect to.

Contact info@IpTechLabs.com for additional information.

About IP Technology Labs LLC. (https://IpTechLabs.com)

IP Technology Labs, LLC. is an American designer and manufacturer of cybersecurity and remote access networking appliances headquartered in Baltimore, Maryland, USA. We develop and market endpoint security solutions for fixed-application devices that eliminate network threats from spoofing, snooping, and backdoors and increase reliability and cost savings for remote access connectivity. Our patented technologies enable IoT, OT, and IT end-to-end networking with cybersecurity for easy, seamless, stable, and secure operation on any network.

###