

A dark blue background image showing several laptops on a desk, with glowing lines representing network connections or data flow between them.

Brazil Telco MHNNet Deploys Robust and Resilient CGNAT Solution with Hillstone Networks

The Customer

MHNNet Telecom was originally founded in 2002, in the city of Maravilha, in the west of Santa Catarina, Brazil, with the goal of becoming the first internet service provider for the region. Today, MHNNet has become one of the pioneers in building a fiber optic network in the region, offering solutions in digital radio, fiber optics, IP telephony and cable TV, and providing residential and business Internet, web site hosting, corporate intranet and VPN services.

The Challenge

The constant need to address growth in IP ranges to meet the demands of customers and in return to keep tariffs accessible to users, has led many service providers to a deadlock due to the end of IPV4 and the high costs of implementing IPV6.

There are two critical challenges to overcome. One is the compatibility problems of existing IPv4 assets with the IPv6 network. The second challenge is the need to maintain full compatibility with complex protocols after adopting a solution.

Of the concerns that have arisen around the implementation of Carrier Grade NAT (CGNAT), the prominent ones are P2P connections and online games, since the demand for these protocols has increased proportionally to the number of users who subscribe to these platforms. This demand as well as application identification and connectivity requirements have forced service providers to look for solutions to support them with quality as well as security.

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The Solution

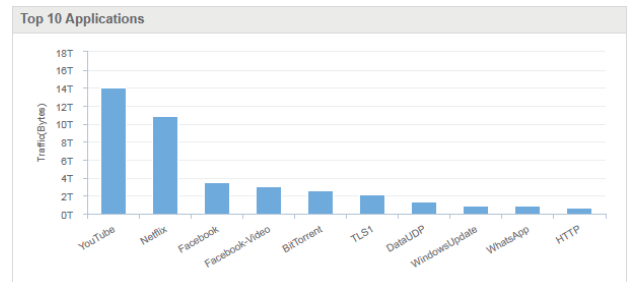
Hillstone Networks, through its high-performance Next Generation Firewall E-Series appliance, provides a CGNAT solution. In addition, the Hillstone E5760 offers attack defense features to mitigate various forms of DoD, DDoS and traffic normalization.

In the deployment process, the scalability and compatibility challenges have been overcome thanks to the architecture and stability of the Hillstone E Series solution, which met the demands of CGNAT, IPv4 coexistence with IPv6, and efficiently integrated with the existing ISP infrastructure.

According to the MHNNet IT director, it was evident that the Hillstone solution was robust and stable, proving that their decision was a strategic reason for the growth of the ISP's backbone network.

“After we had installed Hillstone for our CGNAT requirements, I could finally go fishing on the weekends, rather than spend my weekends troubleshooting,” said the IT Director.

In addition, the Hillstone E Series solution provided the network administrator along with the business to have full subscriber



visibility, with full real-time traffic, as well as a view of the Top 10 Applications used by their customer base with more than 12000 subscribers.

Since other solutions on the market would require two different point products to provide the same benefit and features as Hillstone, Hillstone Networks delivered a cost effective solution to address MHNNet's challenges and drive growth in their business.

