STORMSHIELD

HIGH AVAILABILITY & QUALITY OF SERVICE

Features

SECURITY OF INFORMATION TECHNOLOGIES

The optimization of network availability and connectivity is a fundamental requirement for every enterprise. Network failure is simply unacceptable as it can directly impact companies' business, affect sales and productivity, in addition to damaging image and credibility with customers and partners. Poor quality of service can also adversely affect employees' productivity.

High Availability

The entire network must be reliable and capable of guaranteeing continuity of service in the event of a breakdown. In short, network availability is a crucial element in ensuring that your enterprise runs smoothly.

Every component of your network can and will fail at some point. Stormshield multifunction firewalls are fault-tolerant to ensure high availability and continuity of service even when a device is down. Failover capabilities guarantee network availability even in the event the operator cannot be contacted.

LINK REDUNDANCY

With their physical link aggregation feature (LACP)*, Stormshield Network Security appliances ensure the greater availability of your infrastructure and make it possible to increase the throughput of your network links. By merging several physical interfaces in order to create a single link, you will be able to leverage the bandwidth allocated to this link.

When a physical interface or the associated link is down, traffic will be managed automatically by the remaining interface(s). Several aggregated links can be configured simultaneously, an action that is as simple as dragging and dropping for the intuitive management of interfaces.

Given the constant growth of internet usage for business development, the availability of internet access has become a major factor for success. Stormshield Network Security appliances support redundancy for internet access links in active/active mode.

Depending on the product model, between 4 and 12 simultaneous operator sessions can be configured. This feature also allows increasing the internet link's global bandwidth by cumulating several WAN operator links.

Quality of Service

Furthermore, the Quality of Service feature on Stormshield Network Security solutions helps to prevent network congestion and guarantees 100% reliable connectivity. Bandwidth management and traffic prioritization capabilities prevent denial of service attacks. Stormshield

Network Security appliances are designed with a range of network features to simplify installation and minimize loss of availability in production and other business-critical areas.

There are several reasons why companies need to manage their bandwidth. Most importantly is the fact that it is still a very expensive commodity.

Certain protocols are particularly bandwidth hungry, leaving others with insufficient capacity. Video and audio codecs require a high-speed connection simply to function properly. There are also several protocols like Voice over IP that need a constant, uninterrupted connection. Last but not least, intelligent bandwidth management can contribute to preventing denial of service and other malicious attacks.

Stormshield Network Security solutions provide a number of bandwidth management options. An administrator can allocate bandwidth for every protocol and policy rule. This is extremely helpful for applications such as VoIP or streaming protocols. Secondly, the network manager may choose to restrict bandwidth, making sure no protocol, host or user takes undesirable priority over another.

Also the IPS engine has several QoS mechanisms to protect against malicious hacking attempts. For example, the administrator can limit the amount of concurrent connections to avoid denial of service attacks.

All Stormshield Network Security appliances have built-in bandwidth management capabilities without any requirement for an additional license. The IPS engine combines flexible bandwidth management with user authentication. This allows granular control of the bandwidth usage per protocol, per user and per group. Network managers can apply rules to enable allocation of bandwidth to priority applications and users, while limiting bandwidth for others.

Benefits:

- No loss of productivity
- Guaranteed network availability
- Increased network link bandwidth
- Fully resistant to network attacks

Denial of service attacks against an internal server can be prevented by limiting the number of concurrent connections. Stormshield Network Security appliances also fully support bandwidth protocols like TOS and DSCP. To ensure the highest possible level of bandwidth management, a policy rule decision can even be based on DSCP settings from another network device.

Stormshield Network Security appliances embed an http proxy cache function. By temporarily storing logs of pages visited by users in order to resend them directly in case of a new request, the internet link's bandwidth can be optimized and the response time during web browsing will be greatly shortened.

ABOUT

Arkoon and Netasq, fully owned subsidiaries of Airbus Defence and Space CyberSecurity, run the Stormshield brand and offer innovative end-to-end security solutions both in France and worldwide to protect networks (Stormshield Network Security), workstations (Stormshield Endpoint Security) and data (Stormshield Data Security).

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STORMSHIELD

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