

Application Note

ekaware

DDOS MITIGATION WITH EXAWARE

Networking, Powered by Software Innovation



Exaware DDoS Mitigation Solution

Protect your network from the most aggressive DDoS attacks using Exaware Dynamic Filtering at the Peering Point (DFPP)

Exaware DFPP is a solution enabling Communication Service Providers to extend their DDoS mitigation capabilities at the edge of their network.

DFPP comes to complement your existing lines of defense against DDoS attacks to ensure that most of the unwanted traffic stays out of your network and that your customers can continue to enjoy their services.

The Challenge

Medium Businesses, Global Organizations and Communications Service Providers are constantly challenged by repetitive cyber-attacks, which cost massive amounts of money in lost revenues and reputation, compensation for unhappy customers and heavy manpower to address these attacks.

Today's mitigation systems often work in isolation from the other elements in the network. They hardly combine to provide a global view and understanding of the source and the nature of the attack. Security teams are also separated from network teams making it harder to coordinate actions at times of cyber-attacks.

These issues result in challenges to identify the attacks and properly stop them.

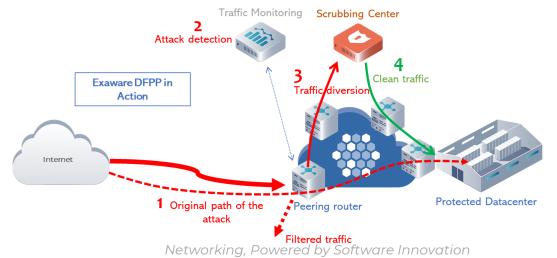
Exaware DFPP Solution

Exaware has developed a solution to enable its peering routers to filter identified attacks at the peering points, in real-time, at scale and supporting rapid changes, to match the rapidly changing conditions of DDoS attacks.

All traffic identified by your current DDoS mitigation systems as being attacks are filtered on the peering router and dropped outside of the network, before they can even get in and impact your customers.

DFPP Benefits

- Efficient against all DDoS Volumetric attacks
- Keeps your network clean of unwanted traffic
- Provides visibility into DDoS attacks
- Time to mitigation under 1 minute
- Adaptive filtering changes rapidly to block new attacks





You can choose between fully automatic, semi-automatic or manual filtering and decide how much control you want to keep.

You define the network segments you want to protect and set your own rules for each segment. Each segment can be one of your customers or a set of servers in your Datacenter, in order to set different priorities based on the sensitivity of the segment and apply different policies.

The system monitors the traffic and triggers the mitigation when the volume of traffic exceeds a defined threshold, above the baseline traffic. DFPP will monitor both bit per second and packet per second.

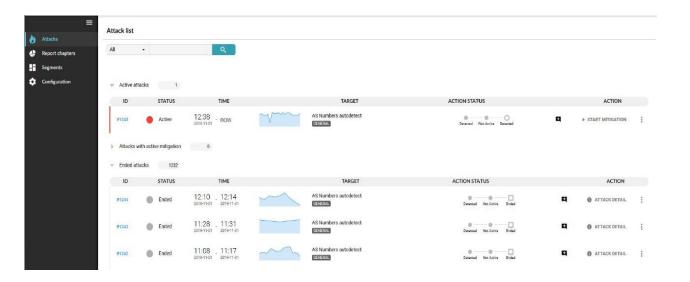
When the attack is identified, DFPP will send filter commands on the source IP address, destination IP or both to Exaware peering routers.

A whitelist is also available, on IP addresses or AS numbers.

DFPP offers a number of mitigations on the router:

- Policy-Based Routing (PBR); routing configuration is dynamically changed based on the attacks identified and the router can typically send the traffic to a scrubbing center.
- BGP Flowspec; the router will filter or throttle traffic based on Flowspec commands coming from the mitigation systems.
- RTBH (Remotely-Triggered Black Hole); the attack traffic will simply be discarded by the router before it gets into the network.

DFPP provides detailed reports of the attacks, such as time of the attack, duration and statistics on the traffic





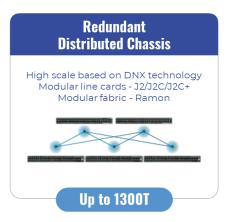
Exaware Internet Peering solutions

ExaNOS is the powerful Network Operating System behind Exaware routing solutions. Built from its inception with carrier scale in mind, ExaNOS delivers all the features and the performance required for the most demanding peering points.

ExaNOS is an Open NOS, which means you can connect your applications with your network and enable brand new services.









Cloud architecture

- Modern software architecture
- Cloud architecture for flexibility and dynamic scale



Complete set of Peering Solution

- Multiple hardware platforms from major Hardware vendors
- Flexibility to customize your network to your needs



Carrier Grade

- ExaNOS is the result of a decade of development
- Deployed among several Tierl service providers



Reduced TCO

- From plan-ahead (chassis) to Payas-you-grow
- Generate new stream of revenues, with 3rd party Applications
- Break the chains of vendor lock-in

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