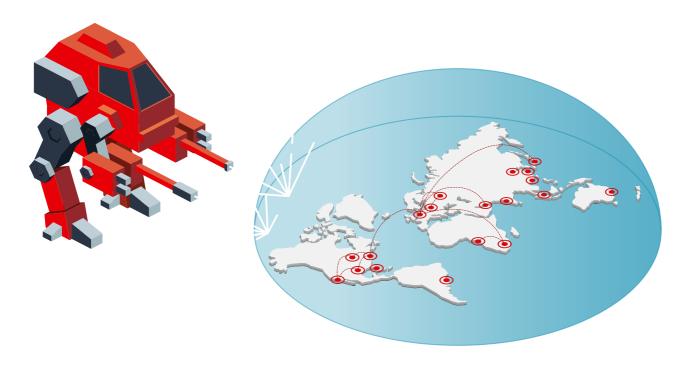
GLOBAL LOW- © i3D.net LATENCY ANTI-DDOS

Local, always-on, infrastructure-embedded toolbox that allows you to mitigate DDoS attacks using granular protection profiles for public IPs.



Did you know that 37% of all DDoS attacks are targeted at gaming? Or that on average, businesses lose from \$53,000 to \$417,000 due to outages, or reduced performance of services as a consequence of DDoS attacks?

Modern DDoS attacks are becoming increasingly sophisticated, often involving multiple vectors of attack to bypass traditional security measures. This can can have a global impact especially on gaming platforms, affecting players and servers worldwide, making it a concern for companies with a global user base. Shielding your operations from the threat of DDoS by building protection into the infrastructure itself hence becomes critcal.

GLAD takes advantage of i3D.net's extensive global network to **block attacks at the edge**. Our sophisticated protection uses **unique methods to restrict untrustworthy IPs in advance** and block the source of the attacks **before they enter i3D.net's network**.

i3D.net adapted its defense strategies to **gaming-specific** needs, cleaning the traffic on the edge, **ensuring negligible additional latency**, a higher level of customization and ultra-granular protection against DDoS attacks.

BENEFITS

Always on

GLAD is embedded in i3D.net's infrastructure. By protecting you, we protect ourselves and vice versa. With immediate response times, GLAD is always ready to thwart attacks. As the nature of these attacks can differ from game to game, you can create customized protection profiles using our dashboard or the API.





Granular protection

With games having different protection requirements, we have built in the network, transport and application layer (L3/L4/L7) protection, optimized for TCP/UDP based traffic streams. With filters on source, ports, IPs, protocols and byte-matching on the router level, we create to-the-bone customizable protection profiles.

Negligible latency

GLAD is a low-latency solution **blocking attacks at the edge** of the i3D.net's network, disallowing faulty traffic to reach your game servers. GLAD utilizes prediction models to rank networks by probability and size of DDoS attacks, limiting the traffic from less secure networks, as per custom pre-set rules of traffic limitation.



BENEFITS

Global protection

GLAD is **embedded in i3D.net's low latency infrastructure** in all of its **60+ Points of Presence around the world**, blocking malicious traffic at the edge.





Sophisticated defense

i3D.net's Warden, part of GLAD, employs custom software at the network edge to dynamically filter traffic based on dynamic whitelists, effectively blocking faulty traffic before it reaches players. With under 1ms added latency, Warden ensures smooth gameplay experiences globally. Customers can create and manage tailored protection profiles via an API-driven interface, enabling flexible defense against evolving DDoS threats.

WHY ARE OUR CUSTOMERS GLAD?

"Multiplayer games need protection from DDoS attacks, but firewalls that slow traffic to protect users are not the answer. i3D.net's access list control rules ensure that the traffic of legitimate users is not interrupted while filtering out any unwanted queries. This dynamic and fully customizable solution geared towards fulfilling the customer's needs was one of the reasons for Hi-Rez's decision to partner up with i3D.net."



Darryl Lister
DIRECTOR OF SERVICES & CUSTOMER SUCCESS

TAKE ADVANTAGE OF OUR SOPHISTICATED WARDEN PROTECTION.

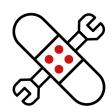
Only IPs explicitly listed in the whitelist can pass through with Warden. Traffic is filtered on the edge, before it even enters i3D.net's network. This keeps the problematic or potentially malicious traffic out of your player's sight.





Warden operates without introducing latency, bypassing the operating system (OS) and directly receiving traffic through the network interface card (NIC). It offloads the filtering process from the OS, ensuring efficient and high-performance filtering.

Warden offers multiple dynamic fail-safes to adapt and grow together with your network protection needs, keeping your operations secure, reliable and uninterrupted, even in the most challenging situations.



Warden is highly flexible and adaptable. Consistent updates and new features from the latest advancements in traffic filtering technology help protect your userbase more effectively.





Warden allows you to specify IPs (via API) to whitelist or blacklist at line rate speeds and takes effect within seconds of adding the IP to the specified lists. Tailor your own protection as needed by managing protection profiles and white/black-lists.

FEATURE OVERVIEW

FEATURE	DESCRIPTION		
API support	Our API support can ensure that you can have everything fully integrated.		
Attack automation rules	Create rules to automatically null route attack targets. GLAD specialists can work with you to configure customized options.		
Automatic detection	Automatically detect incoming DDoS attacks. Once an attacker network is detected we block all traffic from it, no matter what packets we receive from it.		
Byte matching	Byte-matches incoming traffic as per your specified signatures and blocks the bytes that are not supposed to enter your network.		
Custom ACLs	Pre-set your own ACL rules to protect yourself against most of attack types. Set the specific ports, protocols, IP addresses that need to be protected.		
Default ACLs	Pre-set ACL rules that protect against most of attack types, such as DNS and/or UDP. The rules are always updated and maintained throughout.		
Null routing	A dynamic response to large-scale DDoS attacks. Null routing silently discards (or "drops") malicious incoming traffic. The undesired traffic is directed to a route that goes nowhere. Null routing renders the target server inaccessible to anyone, including clean traffic.		
Rate Limit by IP/Subnet	If it is not certain if a network or IP is a risk, the incoming traffic from that destination can have a limited amount of traffic.		
Utilize the existing infrastructure	Enjoy the benefits of i3D.net's extensive worldwide network. Malicious traffic is blocked at the edge, and thus does not even reach your servers.		
Warden	Warden filters traffic via a dynamic whitelist provided by the customer. Warden does inline filtering, which allows for you to go granular and filter your traffic stream effectively.		

PACKAGES

The GLAD set of tools is designed to provide a flexible, comprehensive DDoS protection. Get exactly what you need with the service packages available.

Features	Basic	Advanced	Premium
Default ACL on VLAN	x	x	x
Automatic detection and auto null route	х	х	х
Custom ACL on VLAN		х	х
Rate limit		х	х
Warden			х
Byte matching			х
API support			х

i3D.net enables game studios and enterprises to safeguard their business-critical applications online. We provide high-performance, low-latency networking solutions through a vast, privately-owned global infrastructure.

As game sector veterans, we convert our game hosting innovations into scalable tools for Enterprise and IT. With thousands of servers spread over six continents, we can provide you with an unmatched low-latency network, and expert individualized support.

Contact us here!

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