



Supported Platforms _____

aGalaxy
physical applianceaGalaxy
virtual appliance

Managed Platforms _____

Thunder ADC
physical applianceThunder HVA
hybrid virtual appliancevThunder
virtual appliance

Overview _____

- Highly scalable management solution
- Supports all A10 Thunder® Series hardware and software appliances
- Streamlined operation to reduce operating costs

aGalaxy Centralized Management System

Optimize Operations with Global Monitoring and Management

Large enterprises and service providers face a similar problem: they need to efficiently manage networking and security policies across large, geographically distributed data centers. These organizations require a global view of their application environment to rapidly identify and remediate issues and ensure that policies are consistently enforced. And, most importantly, they need a unified platform that can scale with their network.

The A10 Networks® aGalaxy® Centralized Management System delivers everything that organizations need to gain network visibility and control. aGalaxy scales to manage hundreds of A10 Networks Thunder® ADC line of Application Delivery Controllers or A10 Networks Thunder TPS™ line of Threat Protection Systems, streamlining operations and lowering IT costs. With aGalaxy centralized management system, administrators can monitor and comprehensively analyze their A10 Thunder ADC and Thunder TPS deployments, so they can view Distributed Denial of Service (DDoS) attacks in real time and drill down to see the number of current connections handled by an individual appliance.

Maximize IT Agility and Security

As network operators embrace web scale and DevOps practices such as agile development, they need to quickly provision changes, identify issues and roll back configuration when necessary. aGalaxy centralized management system makes it easy to assess the application environment and push out policies to dozens or even hundreds of Thunder ADC or Thunder TPS appliances at once.

Stop DDoS Attacks with Laser Precision

Security administrators have their own, unique set of challenges. They must swiftly detect and mitigate DDoS attacks to prevent downtime, often in diverse locations. aGalaxy can collect sFlow data as well as integrate with DDoS detection systems to identify DDoS incidents. Security administrators can then centrally apply granular policies to block attack traffic and monitor the results of their policy updates from a single pane of glass.

Architecture and Key Components

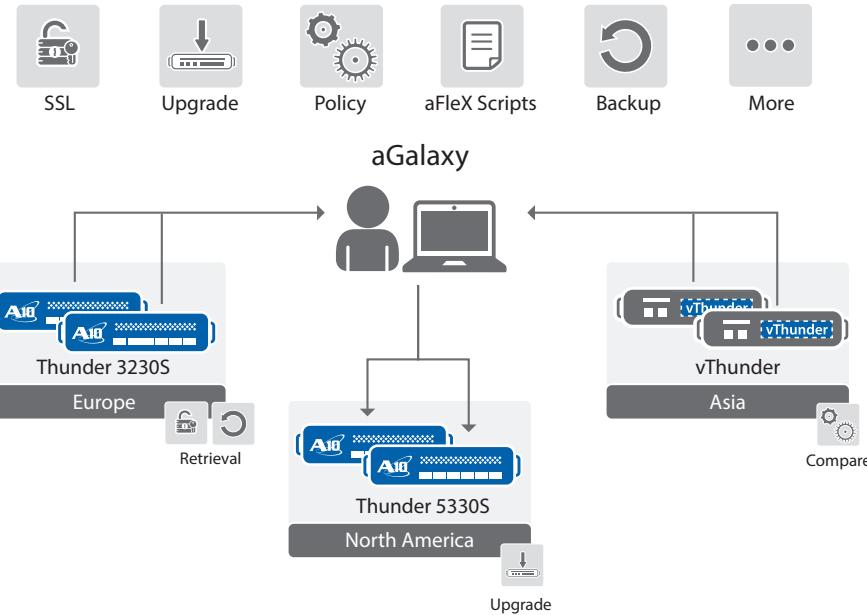


Figure 1. Global visibility and control from a single pane of glass

By implementing aGalaxy centralized management system, organizations can:

- Lower operating costs by consolidating management tasks
- Monitor incidents in real time through a live dashboard
- Receive DDoS incident alerts and mitigate rapidly
- Resolve application performance problems anywhere in your network
- Scale to manage hundreds of Thunder ADC or Thunder TPS appliances

Gain Visibility into DDoS Attacks

aGalaxy centralized management system aggregates data from multiple sources, providing a rich set of telemetry data to monitor live attacks. Collecting sFlow and syslog data from all Thunder ADC devices under management as well as counters and statistics from Thunder TPS appliances, aGalaxy centralized management system offers a complete picture of network activity and attacks.

In addition, the aGalaxy line of hardware and software appliances can integrate with third-party DDoS detection systems that can automatically recognize the telltale signs of a DDoS attack—such as protocol anomalies, a sudden surge in traffic, or a large number of requests from known bots. Once detected, a DDoS attack incident can be created dynamically in aGalaxy using RESTful APIs. Incident management not only tracks key information, like attack duration and type of attack, but it also allows administrators to directly mitigate an attack based on incident data.

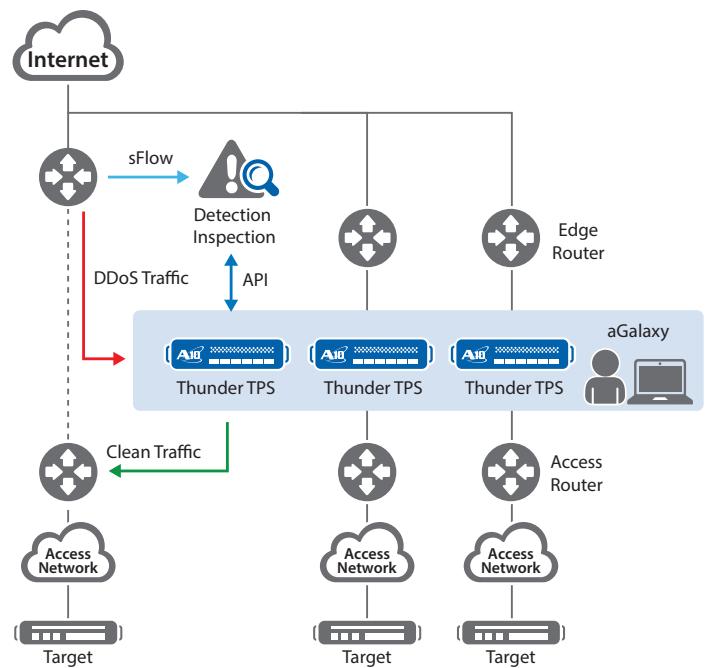


Figure 2. Gain visibility into DDoS attacks

Detect and Mitigate DDoS Attacks in Real Time

From the aGalaxy Mitigation Console, security administrators can view a live dashboard of network activity. They can apply mitigation templates or custom countermeasures instantly. With a myriad of policies and thresholds at their fingertips, administrators can granularly regulate traffic and block suspicious activity. Within seconds of applying policies, they can verify whether their policies mitigated the attack and adjust countermeasures as needed.

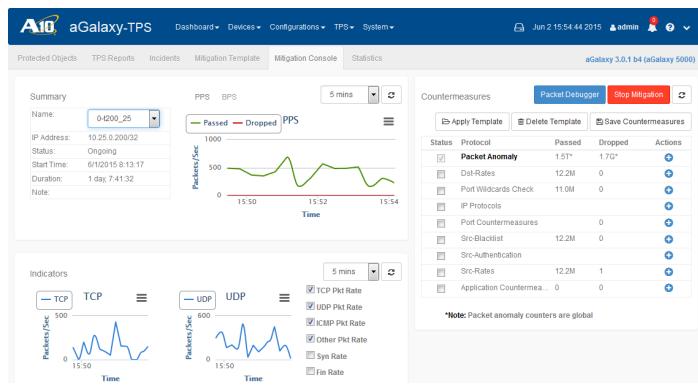


Figure 3. View network activity, apply surgical mitigation policies and quickly verify whether policies have neutralized an attack

Unify Policy Management

aGalaxy centralized management system provides a unified platform for controlling device and application settings. It consolidates all management tasks in one location, making it easy for administrators to apply consistent policies across all devices. From the aGalaxy web user interface, administrators can view the status of virtual servers or, for Thunder TPS management, TPS protected objects. With a few simple clicks, they can edit configuration settings.

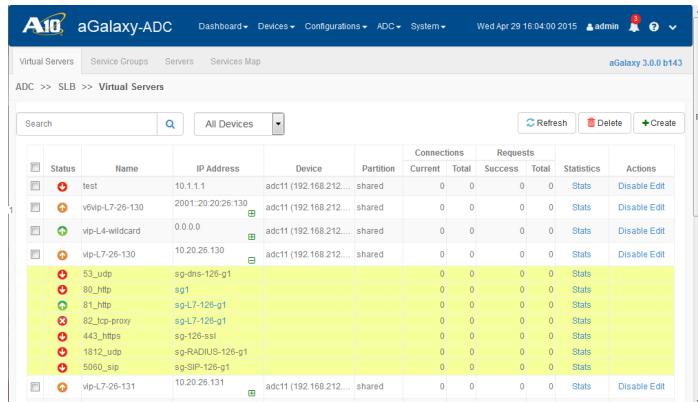


Figure 4. Search for and view Thunder ADC virtual servers from the aGalaxy centralized management system console

Monitor Application Performance

aGalaxy provides a global view of your network from the perspective of your application delivery and DDoS protection platforms. You can identify, diagnose and resolve performance problems before they impact user experience. Detailed logs and counters reveal system status. An interactive services map shows the relationship between load-balancing elements in your network. Specify a service group, a port, a template, an A10 Networks aFlex® script or any other setting to view all of the virtual IPs or Thunder ADC appliances that share that particular configuration.

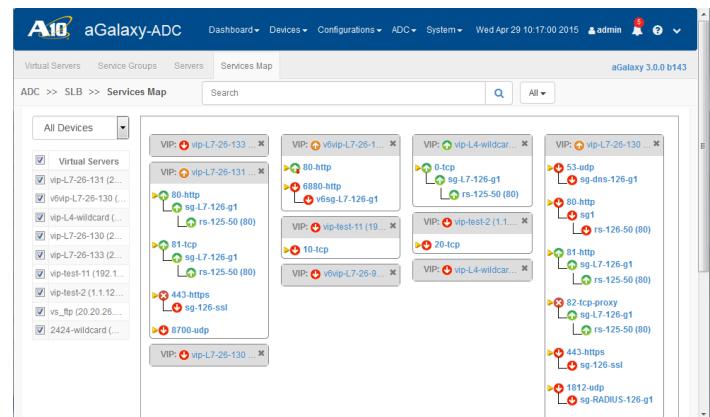


Figure 5. Understand which Thunder ADC appliances share a specific aFlexX script, template or other setting; recognize the relationship between appliances with the interactive Services Map

Simplify Device Management

Managing appliances shouldn't be difficult. With this philosophy in mind, A10 has streamlined device management, even for organizations with dozens or even hundreds of A10 Thunder appliances. Upgrade software, manage SSL certificates, and backup and restore configuration files for all of your appliances from one location. By eliminating the need to log into every appliance for device management, aGalaxy improves operational efficiency.

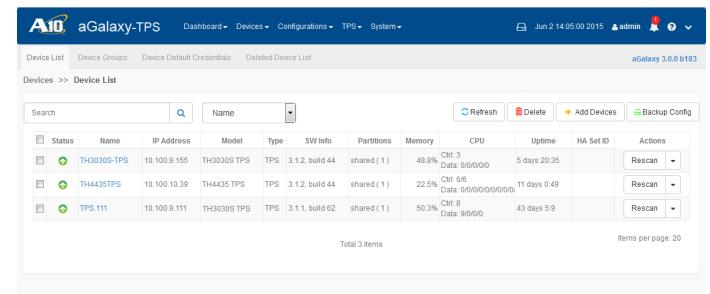


Figure 6. View all devices under management and back up configuration settings from a Galaxy centralized management system

Report on Network Activity and Attacks

aGalaxy offers a variety of security reports that enable organizations to track security events, identify attack trends and address compliance. aGalaxy for Thunder TPS provides a rich set of reports that illustrate overall traffic and blocked attacks by protocol. It also offers Web Application Firewall (WAF) reports to demonstrate security status and satisfy Payment Card Industry (PCI) requirements. All reports can be exported, viewed or printed (for example as a PDF), enabling all stakeholders to analyze security events.

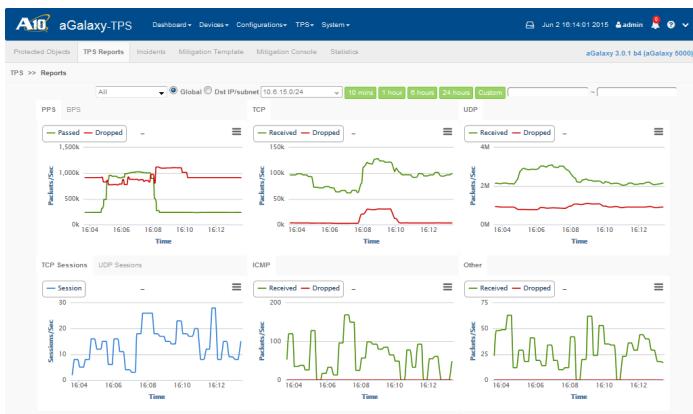


Figure 7. A customizable reporting framework reveals network activity and blocked attacks over time

Features and Benefits*

aGalaxy centralized management system is a robust network monitoring and management solution with an intuitive interface that can be used to perform and automate a variety of essential tasks. In combination with A10 Thunder ADC, vThunder ADC and Thunder TPS, it delivers the following features and benefits:

Simplified Device Management

- Real-time and centralized management
- Configuration, backup and restore
- Central SSL management, including certificate and key retrieval, storage, deployment and expiration alert
- Centralized management for upgrades and image upgrade repository
- Reboot and shutdown features
- Configuration deployment and comparison
- aFlex TCL scripting management, including retrieval, storage and deployment

Event Management and Reporting

- Events categorized by severity, event ID and more
- Accurate information for network availability, usage, performance and inventory
- Searchable audit logs that track username, IP address and time of login
- Data consolidation across multiple panels into real-time web dashboard

- Dynamic dashboard monitoring
- Wizard-based system configuration
- Uptime history
- Customizable event alerts/alarms

Advanced Management

- Role-based access control management
- External authentication that supports RADIUS and TACACS+
- Black and white lists with bandwidth and access limitations

*Features may vary by licensed options. Options include base device management, and Thunder ADC or Thunder TPS device management pack.

aGalaxy Centralized Management System Appliance Specifications

Recommended Devices Supported	30 Thunder Series Devices for the aGalaxy Virtual Appliance 200 Thunder Series Devices for the aGalaxy 5000 Hardware Appliance
ACOS Versions Supported	Thunder ADC: 2.7.1 or higher Thunder TPS: 3.1.0 or higher Thunder CGN: 2.8.2 or higher
Standard Warranty	90-day software or hardware warranty

aGalaxy Centralized Management System Virtual Appliance Requirements

Hypervisor	VMware ESXi 5.0 or higher KVM version 0.14 (qemu-kvm-0.14.0) or higher
Processor	2.5 GHz (dual-core) or higher
Memory	Thunder ADC Management: 8 GB Thunder TPS Management: 16 GB
Storage	Thunder ADC Management: 300 GB Thunder TPS Management: 800 GB
Browser	Internet Explorer 8.x and Firefox 9.x or above

About A10 Networks

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: www.a10networks.com

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To learn more about the A10 Thunder Application Service Gateways and how it can enhance your business, contact A10 Networks at: www.a10networks.com/contact or call to talk to an A10 sales representative.



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