

# Alteon OS 26

## Data Sheet



The Alteon Application Switch sets a new standard in application availability, performance and security with its latest software release. Designed from the ground up for load balancing and application acceleration, the Alteon Application Switch provides enterprises with unprecedented control over applications and the networks on which they run – no matter if the environment is physical or virtualized.

The Alteon Application Switch does far more than just balance network traffic. The switch's filtering and traffic management technology provides fine grain control over how your network is used — for better control, increased productivity and greater cost savings. With Alteon OS 26, IT managers can determine how much bandwidth to reserve for mission-critical applications such as IP, voice over IP (VoIP), video streaming, wireless and more.

The Alteon Application Switch increases productivity by optimizing and accelerating applications, reducing infrastructure costs through capacity efficiency, and reducing down time by preventing Denial of Service attacks.

### What customer challenges does Alteon Application Switch solve?

End users have come to expect instant access in today's hyper-connected world, providing seamless interaction with vital business applications. There is no room for error, as the slightest delay can cause your business to lose customers and revenue.

- Alteon Application Switches deliver enhanced applications availability, increased efficiencies, and most importantly added security for your mission critical applications
- As companies drive cost reductions through data center consolidation, inefficient and inflexible servers, the Alteon Application Switch improves productivity and lowers total cost of ownership costs
- Radware's "Pay-as-you-Grow" approach enables customers to only pay for the exact capacity currently required and prevent over-spending on the initial solution. Throughput capacity as well as application-aware services can be added on demand to meet new business requirements – with no forklift upgrade of the device and without even restarting it.
- Alteon Intelligent Traffic Manager (ITM) not only provides additional control over the network, it also supports load balancing and traffic optimization to accelerate applications, thereby sharing resources and increasing the asset life and ROI.
- Alteon Application Switch help customers reduce infrastructure costs by allowing resources to be used to their full capacity, also providing increased resiliency in the virtual data center.



## Technical Specifications

- IP routing interfaces: 256
- VLANs: 2,048
- Default gateways: 259
- Trunk groups: 12

## Network Protocol and Standards Compatibility

- Spanning Tree (IEEE 802.1d, including 802.1S and 802.1W)
- VRRP
- Logical link control (IEEE 802.2)
- Flow control (IEEE 802.3x)
- Link negotiation (IEEE 802.3z)
- Link aggregation (IEEE 802.3ad)
- VLANs (IEEE 802.1Q)
- Frame tagging (IEEE 802.1Q) on all ports when VLANs enabled
- SNMP v3, Enterprise MIB
- IPv4 and IPv6
- RIPv1, v2
- OSPF
- BGP v4
- TFTP (RFC 783)
- BootP (RFC 1542)
- BootP (RFC 951)
- Telnet (RFC 854)
- EtherChannel-compatible trunking
- Jumbo frames

## Alteon Application Switch OS Portfolio Appliances:

Alteon 5412  
Alteon 4416  
Alteon 4408  
Alteon 3408  
Alteon 2424  
Alteon 2424-SSL  
Alteon 2216  
Alteon 2208

## Software Options

- Throughput Capacity licenses ranging from 500Mbps up to 20Gbps (depending on the platform)
- Intelligent Traffic Management (ITM) Software License
- Bandwidth Management Software License
- Advanced Denial of Service (DoS) Protection Software License
- Global Server Load Balancing Software License
- Link Optimizer Software License
- vAdapter

## FlexiRules for SIP

With more than 28 million business users worldwide using enterprise instant messaging products to send nearly 1 billion messages each day, there is a strong demand to increase SIP-related security policies. Alteon OS 26 enhances SIP-based services as follows

- FlexiRules for SIP provide better flexibility of providing the security policies for administrators to control the traffic over their company's networks.
- Enhanced CLI commands for SIP UDP and the ability to easily configure customized rules allow simplified administration and a more secure network.

## What makes Alteon Application Switch stand out?

The Alteon OS 26 integrates routing and switching by forwarding traffic at Layer 2 speed using Layer 4-7 information. The result is sophisticated load balancing that is based not only on network traffic volume, but also on the nature of the traffic within a virtualized environment, server responsiveness, CPU utilization and server health.

The offering supports multiple applications and services on a single platform:

- Load balancing and Layer 2-7 content switching
- Application acceleration and Secure Sockets Layer (SSL) offload
- Security with integrated IPS and Denial of Service (DoS) protection
- Disaster recovery/high availability
- Bandwidth management and traffic shaping
- Rogue application management
- WAN link load balancing – multi-homing

Flexible, scalable and built for the future, Alteon OS 26 provides extraordinary control over application traffic. Unlike many other application switches, the Alteon Application Switch can be deployed at Layer 2, allowing deployment without changing your existing IP addressing scheme.

## Application Optimization

- Simplified and Intuitive web GUI for easy configuration and management
- Local and global server load balancing with health checks and persistence
- Virtual server-based load balancing with up to 1,024 virtual servers, each distributing up to eight different services
- Filtered-based load balancing
- Content-based load balancing
- WAN link load balancing
- VoIP (SIP) call server load balancing
- Wireless Application Protocol (WAP) load balancing
- Real Time Streaming Media (RTSP) load balancing
- Multiple and Rapid Spanning Tree Protocol (MSTP and RSTP) support
- Web services (XML/SOAP) inspection/ redirection
- Sophisticated filtering rules
- TCP connection optimization and multiplexing
- Domain Name Server (DNS) load balancing

- Lightweight Directory Access Protocol (LDAP) server load balancing
- Bandwidth management and traffic shaping1
- Cache redirection and load balancing
- Disaster recovery through instant failover with persistence and DC support
- Management virtualization
- IPv6 Layer 4 load balancing support
- SSL acceleration
- Full network address translation
- Supports up to 2,048 packet filtering rules and 1,024 real servers

#### **Application Integration**

- Tested and certified Solution with Microsoft Office Communication Server 2007 (OCS)
- Tested solution for Microsoft's Live Communication Server and supports Windows Terminal Services
- Tested and integrated with Softricity, Oracle, SAP, BEA and other applications
- Open XML Application Programming Interface

#### **Application-layer Security**

- Extensive DoS protection (TCP, IP, UDP, ICMP)
- Bogus IP (Bogon) filtering
- Deep packet inspection with custom filtering
- ACL filtering
- Detect and block rogue applications
- Enforcement point for Nortel's Threat Prevention System (TPS)
- Firewall, VPN and IDS load balancing

The Alteon Application Switch has been tested and certified to support a wide range of applications from leading vendors such as Microsoft, IBM, Oracle and SAP.

## About Radware

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for nearly 10,000 enterprises and carriers worldwide. With Radware's comprehensive and award-winning suite of products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

## Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements - phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

## Learn More

To learn more about Radware Alteon application delivery products please visit us at [www.radwarealteon.com](http://www.radwarealteon.com). For information

regarding Radware's entire portfolio of application delivery and network security products for business-smart networking, please visit [www.radware.com](http://www.radware.com).