



Array AppVelocity (APV) Series Application Delivery Controllers improve the availability, performance and security of enterprise applications and Web sites while reducing cost and complexity in the data center.

Array APV's advanced local and global load balancing at Layers 2 - 7 with built-in application specific acceleration is the next generation in traffic management appliances, reducing overall IT infrastructure costs while improving user productivity.

■ Application Fluent High-Availability Platform

Array APV is the only advanced traffic management platform with built-in Layer 2 load balancing, Layer 3 load balancing, link load balancing and global server load balancing in addition to Layer 4-7 load balancing found on traditional devices. Array APV's caching, compression, and TCP connection multiplexing are optimized for small, dynamic, hot content - making it the ideal platform for delivering Web 2.0 applications. Array APV is also proven to provide high availability and acceleration for applications such as Microsoft Exchange Server, Sharepoint Portal Server, Office Communication Server, IIS Server, Apache Server, BEA WebLogic, Oracle, SAP, IBM WebSphere, Squid, VoIP, DNS, FTP, RADIUS, SMTPS, IMAPS, POPS, TCPS, firewalls, A/V and many other network infrastructure components.

■ Strong SSL Security for Applications

Array APV has the highest performance SSL encryption in its class and the best integration with Certificate Authorities (CA) and client certificates. It's comprehensive and flexible rule set ensures identity based access and authorization when accessing banking, stock trading and e-commerce applications. The APV platform is security-hardened and protects applications and servers from DDoS, Syn-flood, tear drop, ping-of-death, Nimda and many other attacks. It also integrates extensive access control lists (ACL), network address translation (NAT), and stateful packet flow inspection to guard against unauthorized access.

■ Accelerated Application Performance

Array APV goes beyond traditional load balancing products by leveraging multiple acceleration technologies and advanced TCP optimization to deliver high performance for a wide range of applications. APV's Intelligent caching and compression reduces server overhead while speeding up user access to applications.

■ Green Platform Delivers Dramatic ROI

Array APV enables IT infrastructure to be consolidated and simplified thereby reducing power and space costs. APV uses 60% less power than other products, reduces server infrastructure by up to 40%, reduces network bandwidth by 30% and delivers strong ROI in as little as 6 months.

Product Benefits

- Performance accelerator for a wide range of popular corporate applications helps reduce management, power and space costs
- Most complete high-availability solution, delivers 99.999% uptime
- Integrates local and global load balancing at Layer 2 - 7 with SSL acceleration, compression, caching, TCP optimization and stateful packet inspection in a single solution
- Dramatically improves the end-user experience by cutting response time by 50% or more
- Significantly reduces server overhead 40% or more by off-loading caching, connections, and SSL processing
- Hardened platform protects applications against network-based attacks without impacting performance
- Easy to configure and simple to manage N+1 clustering solution can be managed via Web UI or industry familiar Command Line Interface (CLI) or XML / RPC or SNMP

Availability

Layer 7 Server Load Balancing

- Maximizes traffic flow and performance with customizable layer policy
- QoS
- URL
- Hostname
- Cookie
- SOAP
- Arbitrary header
- Per virtual service proxy mode
- Session Initiation Protocol (SIP)
- Real-Time Streaming Protocol (RTSP)

Layer 4 Server Load Balancing

- Intelligent routing maximizes balancing methods and increases performance
- TCP, TCPS, UDP protocols supported
- Round robin, weighted round robin, least connections, shortest response, persistence IP
- RADIUS, DNS servers

Global Server Load Balancing

- Ensures performance for applications in a multitude of locations worldwide
- DNS DoS protection
- Global site/service selection
- Proximity and IP Persistence for nearest site for improved performance.
- Delivers local and global balancing for multi-site SSL VPN

Layer 2 / 3 Load Balancing

- Firewall appliances
- Intrusion Prevention Systems (IPS) and Intrusion Detection Systems (IDS)

Link Traffic Shaping

- Link load balancing
- Dynamic routing
- Traffic shaping policies
- Healthchecks

Clustering

- Ensures availability and performance of applications with single point of management regardless of cluster size
- Active/active; active/standby
- Configuration synchronization
- Interoperability with BEA WebLogic Cluster
- Application-specific health check

Performance

SSL Offloading and Acceleration

- Offloads HTTPS processing up to 90% while securing sensitive data
- High-performance hardware-based acceleration
- HTTPS, NNTPS, SMTPS, POPS, IMAPS, LDAPS
- SSL inside for end-to-end security
- Full certificate management features

High-Performance Caching

- Memory-based DRAM cache reduces seek times by a factor of 1000x
- Fully-compliant with HTTP 1.1 Specs

TCP Acceleration

- Improves application performance 100x by off-loading TCP processing
- Connection multiplexing
- TCP Buffering
- Client connection persistence
- IEEE 802.3ad link aggregation

Dynamic Compression

- Reduces response times an average of 75% for improved user experience
- Inline HTTP
- HTML and XML
- Java scripts
- Cascading style sheets
- Popular Microsoft file formats (.DOC, .XLS, .PPT)
- PDF

Security

Server Security

- Full proxy-based firewall safeguard applications from network attacks
- TCP Syn-flood protection
- Flash event protection
- Full DoS protection
- URL Filtering

Network Security

- Full stateful packet inspection firewall
- Over 1000 ACL rules without performance degradation

Network Address Translation

- Static and port-based translation for maximum flexibility and scalability

Ease of Use & Integration

- Complete, centralized management tools that simplify installation without compromising security or flexibility
- Industry standard CLI Interface
- Secure SSH remote network management
- Single point for cluster management
- Secure WebUI access
- XML-RPC remote management support
- SNMP V2 / V3 and private MIBs
- Syslog (UDP or TCP)
- Simple initial setup support
- Administrator account management
- CLI command-based monitoring
- Notification/alerting system w/paging
- Multiple configuration support
- Multiple unit configuration synchronization support
- On-line troubleshooting support
- Real-time monitoring graphs support
- Log message manual

	APV900	APV1200	APV2200	APV3200	APV5200
Memory	512MB	1GB	2GB	4GB	4GB
I/O Configuration	2 10/100/1000	4 10/100/1000	Up to 6 Ports: 4 10/100/1000 Optional: 2 1000 Base-SX	Up to 10 Ports: 4 10/100/1000 Optional: 2 1000 Base-SX 4 10/100/1000	Up to 10 Ports: 4 10/100/1000 (2 cards) 2 1000 Base-SX (1 card) 2 10 Gig Eth Fiber (1 card)
Clustering	2	2	32	32	32
Form Factor	1U	1U	1U	1U	2U
Power Supply	Single	Single	Single	Single	Dual

Technical Specifications

Support	Bronze, Silver, Gold & Platinum Level Support Plans
Warranty	1 Year Hardware; 90 Day Software
Standards	10/100 Base-TX, 1000 Base-T, 1000 Base-SX, 10 GigE, IP, SSH, HTTP 1.0/1.1, SSL, SNMP
Management	SSH CLI, Direct Console CLI, SNMP, Single Console per Cluster, XML-RPC
Console port	Male DB9 Serial (RS232) Port
Dimensions	Standard 19" Rack Mountable 1200/2200/3200: 17" (W) x 15" (D) x 1.75" (H) or 1RU 3520/5200: 17" W X 21.5" D X 3.5" H or 2U
Weight	900/1200/2200/3200: 14 Lbs. 5200: 30lbs
Environmental	Operating Temperature: 0° to 40°C Humidity: 0% to 90%, Non-condensing Power 1200/2200/3200: 100-240VAC, 2.8 A, 47-63Hz, Auto-Ranging 3520/5200: 100-240VAC; 6A; 47-63 Hz, Full Range Input
Regulatory compliance	The equipments described are declared to be in conformity with the applicable national and international standards, when tested in a representative chassis. The conformity is valid ONLY when the equipment is used in a manner consistent with manufacturer's recommendations and reference documents. IEC 60950-1, LU/CSA 60950-1, EN 60950-1, ICES-003, EN 55024, CISPR 22, AS/NZS 3548, FCC, 47FR part 15 Class A, VCCI-A
Safety	CSA, C/US, CE, UL EMC Testing: Bay Area Compliance Laboratories Corporation, 1274 Anvilwood Avenue, Sunnyvale, CA 94089 CB report issued by: CSA International, 13799 Commerce Parkway, Richmond, BC, Canada.

APV900



APV1200



APV2200



APV3200



APV5200



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