Breakthrough Performance with On Demand Throughput and Service Scalability

OnDemand Switch®, Radware's next-generation hardware platform, delivers the breakthrough performance and superior scalability needed to effectively meet contemporary network and business needs. Specifically designed for the majority of enterprises and carriers that operate in dynamic, ever-changing environments and face diverse requirements, OnDemand Switch provides the extendable throughput they need from 0-20 Gbps for unparalleled scalability, business availability and performance. With OnDemand Switch you can add additional application-aware services on demand to meet new or changing application and infrastructure requirements without compromising performance. And, thanks to its one-click service and throughput upgrade capabilities, OnDemand Switch delivers both short-term and long-term savings on CAPEX and OPEX for full investment protection. OnDemand Switch represents a paradigm shift in the application delivery marketplace by providing customers with a new, cost effective and hassle-free upgrade standard.

OnDemand Switch
Main Business Benefits

- Breakthrough Performance

- Fastest Transaction Response Time

- On Demand Throughput and
  Service Scalability

- Investment Protection through
  "Pay-As-You-Grow" Approach

- No Upgrade Projects, No
  Hardware Replacements

- Operations Simplicity
  and Standardization

OnDemand Switch platform series for AppDirector featured above.

On Demand Performance at All Throughput Requirements

As data-center complexity increases in terms of servers, applications, technologies and capacity, and there are clear requirements from the network to be more application-aware and add more application intelligence and services, application delivery solutions need to meet these growing requirements with more sophisticated, powerful switching capabilities. OnDemand Switch delivers unmatched performance up to 20 Gbps of throughput. Thanks to its revolutionary, rock-solid architecture, OnDemand Switch provides the best application delivery performance at all throughput levels to support all layer 4-7 network requirements. Whenever your network faces heavier traffic loads and you business require higher throughput levels, OnDemand Switch still provides the best performance at all times.
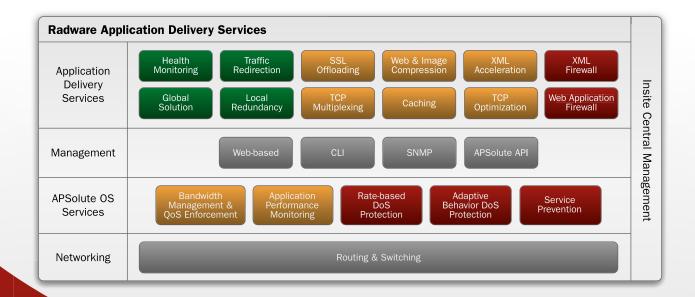
On Demand Throughput and Service Scalability

OnDemand Switch meets business growth demand by enabling customers to scale up performance by increasing throughput without hardware replacements. Customers may start with a certain bandwidth requirement to meet their current business needs, and later on, when the business grows, scale without a forklift upgrade. Customers can upgrade from as little as 200 Mbps all the way to 4 Gbps and from 8 Gbps all the way to 20 Gbps by using the same hardware platform. As a result, you can meet all your business growth needs, improve uptime and meet SLA for your mission critical applications. Consequently, not only are business requirements met, but it is accomplished with a simple license upgrade.

Armed with Radware's APSolute OS "application aware" functionality, OnDemand Switch offers the broadest functionality in the application delivery market. You can add additional, advanced services by simply applying a new license. The APSolute OS service architecture extends:

- Health monitoring and traffic redirection capabilities for real-time identification of service failures
- Load balancing for optimized management of traffic flows across the enterprise
- Global server load balancing ensuring transaction completion for all applications, for all users, at all times
- Application acceleration for offloading servers and optimizing content delivery through SSL offloading, TCP multiplexing, static and dynamic caching, compression and more
- Behavioral DoS protection to safeguard networks and resources, using a real-time signature technology and combating up to 10M packets per second (PPS) using a dedicated hardware-based DoS Mitigation Engine (DME)
- Service protection delivering real-time service cracking and scanning mitigation, to successfully safeguard HTTP, FTP, SIP, SMTP/IMAP/POP3 and additional types of servers
- Stateful Access Control increasing application resiliency to guarantee its proper, continuous operation by enforcing various access control policies
- Bandwidth management for policy-driven service prioritization
- Application performance monitoring to analyze real-time traffic and pinpoint performance degradations

OnDemand Switch delivers a wide range of APSolute advanced services addressing data-centers' most prominent challenges, with no compromise on performance.

Radware Application Delivery Services

							Insite Central Management
Application Delivery Services	Health Monitoring	Traffic Redirection	SSL Offloading	Web & Image Compression	XML Acceleration	XML Firewall	
	Global Solution	Local Redundancy	TCP Multiplexing	Caching	TCP Optimization	Web Application Firewall	
Management		Web-based	CLI	SNMP	APSolute API		
APSolute OS Services	Bandwidth Management & QoS Enforcement	Application Performance Monitoring	Rate-based DoS Protection	Adaptive Behavior DoS Protection	Service Prevention		
Networking				Routing & Switching			

On Demand Investment Protection

OnDemand Switch provides seamless scalability during ongoing IT operations. Typically, scaling up an infrastructure implies hardware replacements. No more. Radware's OnDemand Switch provides a hassle-free upgrade with no downtime, eliminating large-scale upgrade projects that are required every time you max out the capacity of your switches. OnDemand Switch eliminates the need to design, test, stage, install and debug a new hardware device, thus significantly reducing the high costs and time typically associated with scaling your environment. Thanks to its throughput and services scalability, OnDemand Switch dramatically extends the life-time of the hardware platform. By leveraging the extendable throughput license, your infrastructure investment is protected as you pay only for the performance you need today and easily scale when you need more. As a result, there is also no need to pay up front for future capacity needs. This provides you with superior cost effectiveness and lowers your overall total cost of ownership (TCO).

On Demand Operations Simplicity

OnDemand Switch reduces data center operations complexity and related costs thanks to its hassle-free scalability, outstanding reliability and standard, unified platform that is suitable for all throughput levels. Therefore, the entire operational environment can be standardized on one type of switching platform resulting in more efficient operational processes. This also generates significant savings in terms of training and the inventory carried for spare and backup devices.

Additional Benefits

Carrier-Grade Reliability

OnDemand Switch delivers carrier-grade reliability and performance required by the most demanding carrier application environments. It features a reliable, custom-made hardware coupled with embedded components providing high MTBF. OnDemand Switch is NEBS ready and it also complies with the strictest regulations and is certified by the most up-to-date hardware standards. In addition, OnDemand Switch provides dependable, dual AC/DC power supply.

Guaranteed Availability & Secured Management

OnDemand Switch provides continuous guaranteed availability of remote management even under extreme utilization conditions. As the two redundant management ports use a separate, out-of-band management data path, the management traffic is not affected by the data traffic. For enhanced security, the management ports are isolated from the traffic ports. Moreover, the management ports can work in a redundant mode for high availability.

Enhanced Configuration

OnDemand Switch allows for easy installation, recovery and upgrade of its software as well as configuration back-up for enhanced management. It also features a convenient LCD Panel for display of key performance statistics.

On Demand Innovation

OnDemand Switch Layer 4-7 operations are powered by a state-of-the-art hardware architecture for optimized resource utilization, maximum application performance, top reliability and superior manageability.

Radware APSolute® Product Suite

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for more than 10,000 enterprises and carriers worldwide. With Radware's comprehensive APSolute suite of application delivery and network security 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 how Radware's integrated application delivery solutions can enable you to get the most of your business and IT investments, email us at info@radware.com or go to www.radware.com.

Features	OnDemand Switch VL Series	OnDemand Switch VL XL Series	OnDemand Switch 3 Series	OnDemand Switch 3 XL Series
Nominal Throughput	AppDirector 208: Up to 200 Mbps AppDirector 508: Up to 500 Mbps AppDirector 1008: Up to 1 Gbps AppDirector 2008: Up to 2 Gbps AppDirector 4008: Up to 4 Gbps	AppDirector 208 XL: Up to 200 Mbps AppDirector 508 XL: Up to 500 Mbps AppDirector 1008 XL: Up to 1 Gbps AppDirector 2008 XL: Up to 2 Gbps AppDirector 4008 XL: Up to 4 Gbps	AppDirector 8016: Up to 8 Gbps AppDirector 12016: Up to 12 Gbps AppDirector 16016: Up to 16 Gbps AppDirector 20016: Up to 20 Gbps	AppDirector 8016 XL: Up to 8Gbps AppDirector 12016 XL: Up to 12Gbps AppDirector 16016 XL: Up to 16Gbps AppDirector 20016 XL: Up to 20Gbps
SSL CPS	500 CPS scalable up to 5,000 CPS	5,000 CPS scalable up to 10,000 CPS	500 CPS scalable up to 7,000 CPS	10,000 CPS scalable up to 36,000 CPS
Compression	100 Mbps scalable up to 1 Gbps	500 Mbps scalable up to 1 Gbps	100Mbps scalable up to 1.5 Gbps	1Gbps scalable up to 3.5 Gbps (optional hardware compression)
Routing Protocols	OSPF, RIP, RIP II			
Processor	Intel Core 2 quad-core 2.6 GHz		2 AMD Shanghai quad-core 2.5 Ghz	
Memory	Up to 8 GB		Up to 32GB	
Gigabit/GBIC Ports	6 Gigabit Ethernet Ports (Copper) + 2 Gigabit Fiber Ports (SFP-GBIC Mini)		4 10 Gigabit Fiber Ports (XFP pluggable optics) + 4 Gigabit Fiber Ports (SFP-GBIC Mini) + 8 Gigabit Ethernet Ports (Copper)	
1000Base-SX/LX/ZX Ports	All Gigabit Fiber ports deliver SX/LX/ZX interfaces depending on GBIC			
1000Base-SX (850 nm) Operating Distance	· 62.5 micron MM fiber .2 m to 275 m · 50 micron MM fiber .2 m to 550 m			
1000Base-LX/ZX Operating Distance	· LX: Up to 10 km (6.2 mi) · ZX: Up to 80 km (49.7 mi)			
USB Port	On front panel			
LCD Screen	NA		On front panel	
RS-232C Console	RJ-45 serial connection		· DB-9 serial connection · Female DCE interface	
Dimensions	· 1U: o Width: 424 mm (17 in.) o Depth: 457mm (18 in.) o Height: 44 mm (1.7 in.) EIA Rack or Standalone: 482 mm (19 in.)		· 2U: o Width: 424 mm (17 in.) o Depth: 600 mm (24 in.) o Height: 88 mm (3.4 in.) EIA Rack or Standalone: 482 mm (19 in.)	
Weight	· 1U: 7.6 kg (16.8 lbs)	· 1U: 7.7 kg (17 lbs)	· 2U: 15 kg (33.1 lbs)	· 2U: 15.1 kg (33.3 lbs)
Environmental	· Operating temperature: 0°C to 40°C (32°F to 104°F) · Humidity: 5% to 95% non-condensing			
Power	· Auto-range supply: · AC: 100-240V 47-63Hz · DC: -36~-72V · Power consumption: 168W · Heat dissipation: 573 BTU/h · Optional dual power supply (AC/DC)	· Auto-range supply: · AC: 100-240V 47-63Hz · DC: -36~-72V · Power consumption: 188W · Heat dissipation: 641 BTU/h · Optional dual power supply (AC/DC)	· Auto-range supply: · AC: 100-240V 47-63Hz · DC: -36~-72V · Power consumption: 513 W · Heat dissipation: 1749 BTU/h · Dual power supply (AC/DC)	· Auto-range supply: · AC: 100-240V 47-63Hz · DC: -36~-72V · Power consumption: 537 W · Heat dissipation: 1831 BTU/h · Dual power supply (AC/DC)
Certifications	· Safety: EN 60950-1:2006, CB - IEC 60950-1, CCC, cTUVus/cULus, · EMC: CE - EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, IEC 61000 4-2 to 4-6, IEC 61000 4-8 & IEC 61000-4-11, FCC Part 15B Class A, ICES-003, VCCI, C-Tick · RoHS 6			

Technical specifications and product information are subject to change without prior notice.