

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 0-4Gbps 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 a compromise on 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
- Throughput and Service Scalability
- Best Investment Protection
- Operations Simplicity

OnDemand Switch 1 and OnDemand Switch 2 for AppDirector featured above.

On Demand Performance at All Throughput Requirements

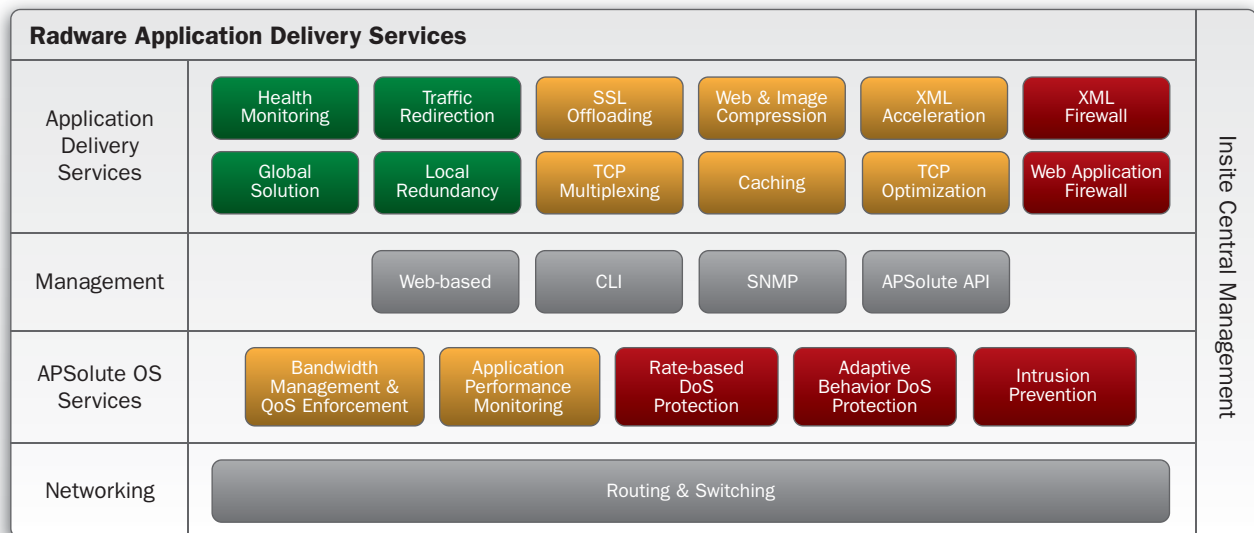
As data center complexity increases in terms of servers, applications, technologies and capacity, and there are clear requirements from the network to be more application-aware with more application intelligence and services, application delivery solutions need to meet these growing requirements with more sophisticated, powerful switching capabilities. OnDemand Switch delivers unmatched performance up to 4GBps 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 your business requires 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 with no 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 200Mbps all the way to 4Gbps of application delivery by using the same hardware platform. As a result, you can meet all your business growth requirements, improve uptime and meet SLAs 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" capabilities, 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 for real-time identification of service failures; load balancing for optimized management of traffic flows across the enterprise; bandwidth management for policy-driven service prioritization; intrusion prevention and DoS protection to safeguard your network and resources; and application performance monitoring to analyze real-time traffic and pinpoint performance degradation. OnDemand Switch delivers a wide range of APSolute advanced services addressing data centers' most prominent challenges with no compromise on performance.



On Demand Investment Protection

OnDemand Switch provides seamless scalability during on-going IT operations. Typically, scaling up an infrastructure implies hardware replacements. No more. OnDemand Switch provides 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 and simplified with 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 back-up devices.

Additional Benefits

Carrier-Grade Reliability

OnDemand Switch delivers carrier-grade reliability and performance required by the most demanding carrier application environments. It features reliable, custom-made hardware coupled with embedded components providing high MTBF. OnDemand Switch is NEBS ready, 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, upgrade and backup of its software 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 5,000 enterprises and carriers worldwide. With Radware's comprehensive and award-winning APSolute 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 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.

Technical Specifications

Features	OnDemand Switch 1 Series	OnDemand Switch 2 Series
Nominal Throughput	AppDirector 204: Up to 200 Mbps AppDirector 504: Up to 500 Mbps AppDirector 1004: Up to 1 Gbps AppDirector 2004: Up to 2 Gbps AppDirector 4004: Up to 4 Gbps	AppDirector 1016: Up to 1 Gbps AppDirector 2016: Up to 2 Gbps AppDirector 4016: Up to 4 Gbps
Non-blocking Switch Fabric	NA	48 Gbps
Layer 2 Switching	NA	Wire-speed
Simultaneous Sessions	Unlimited	
Routing Protocols	OSPF, RIP, RIP II	
Processor	AMD Opteron dual-core 2.2 GHz	AMD Opteron dual-core 2.6 GHz
Memory	Up to 2GB	Up to 4GB
Gigabit/GBIC Ports	4 Gigabit Ethernet Ports (Copper or Fiber)	12 Gigabit Ethernet Ports + 4 Gigabit Fiber Ports (SFP-GBIC Mini)
1000Base-SX/LX/ZX Ports	All fiber ports deliver SX/LX/ZX interfaces depending on GBIC	
1000Base-SX (850 nm) Operating Distance	<ul style="list-style-type: none"> • 62.5 micron MM fiber .2 m to 275 m • 50 micron MM fiber .2 m to 550 m 	
1000Base-LX/ZX Operating Distance	<ul style="list-style-type: none"> • LX: Up to 10 km (6.2 mi) • ZX: Up to 80 km (49.7 mi) 	
USB Port	On front panel	
LCD Screen	On front panel	
RS-232C Console	<ul style="list-style-type: none"> • DB-9 serial connection • Female DCE interface for out-of-band management 	
Dimensions and Weight	<p>1U:</p> <ul style="list-style-type: none"> • Width: 424 mm (17 in.) • Depth: 600 mm (24 in.) • Height: 44 mm (1.7 in.) • Weight: 9.1 kg (20 lbs) <p>2U:</p> <ul style="list-style-type: none"> • Width: 424 mm (17 in.) • Depth: 600 mm (24 in.) • Height: 88 mm (3.4 in.) • Weight: 10.4 kg (23 lbs) <p>EIA Rack or Standalone: 484 mm (19 in.)</p>	<p>1U:</p> <ul style="list-style-type: none"> • Width: 424 mm (17 in.) • Depth: 600 mm (24 in.) • Height: 44 mm (1.7 in.) • Weight: 9.1 kg (20 lbs) <p>2U:</p> <ul style="list-style-type: none"> • Width: 424 mm (17 in.) • Depth: 600 mm (24 in.) • Height: 88 mm (3.4 in.) • Weight: 10.4 kg (23 lbs) <p>EIA Rack or Standalone: 476 mm (18.5 in.)</p>
Environmental	<ul style="list-style-type: none"> • Operating temperature: 0°C to 40°C (32°F to 104°F) • Humidity: 5% to 95% non-condensing 	
Power	<ul style="list-style-type: none"> • Auto-range supply: <ul style="list-style-type: none"> ◦ AC: 90V - 264V ◦ DC: 36V - 72V • Frequency: 47Hz - 63Hz • Power consumption: 110W • Heat dissipation: 375.1 BTU/h • Dual power supply (AC/DC) in 2U form 	<ul style="list-style-type: none"> • Auto-range supply: <ul style="list-style-type: none"> ◦ AC: 90V - 264V ◦ DC: 36V - 72V • Frequency: 47Hz - 63Hz • Power consumption: 188W • Heat dissipation: 641.08 BTU/h • Dual power supply (AC/DC) in 2U form
Certifications	<ul style="list-style-type: none"> • Safety: EN 60950; UL 1950, CSA 22.2 No 950 • EMI: EN 55022 Class A, EN 50024 FCC, Part 15B Class A • CE, FCC, VCCI, CB, LVD, TUV, UL/cUL, CCC, RoHS 	

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