

Symantec MACH5 Caching Edition

Deliver Superior User Experience, While Containing Bandwidth Costs

At a Glance

Significant Bandwidth Savings

- Save up-to 50% bandwidth for general Web traffic
- Save up-to 90%+ bandwidth with targeted caching
- Achieve rapid return on investment (ROI)

Optimization for Web, Video & Large File Content

- Enhance user experience for web, video and bandwidth-intensive content
- · Accelerate websites, videos and large file updates delivered over IP
- Selectively cache HTTPS traffic with built-in SSL inspection capability

Extensive Video Support

 Optimize video content with on-demand caching, stream splitting and content prepositioning • Support Adobe, Microsoft, Apple and other leading video protocols

Cloud-Enabled Caching Technology

- Dynamically update caching rules and instructions from Symantec CachePulse™
- Maintain caching efficiency for maximum performance optimization and bandwidth savings

Scalability & Efficiency

- Scale from a single appliance to hundreds of Gbps using cache farm architecture
- Consolidate and streamline policy creation, configuration and monitoring with Symantec Management Center

Part of the Symantec Network Performance and Optimization portfolio, the Symantec MACH5 Caching Edition appliance enables Communications Service Providers – including ISPs, mobile operators, satellite providers and organizations providing Internet access to large numbers of users – to save on expensive bandwidth and backhaul traffic, while improving the end-user web experience. By leveraging industry-leading transparent caching and streaming technologies, providers can accelerate the delivery of rich Web 2.0 content, including large files and videos. The solution also provides an industry-first approach to address encrypted traffic for additional savings and user experience gains.

Save on Bandwidth & Backhaul

By caching content in-region and closer to the users, MACH5 reduces bandwidth consumption, while boosting the end-user experience. MACH5 typically demonstrates 40-50% savings on general web traffic, while savings with targeted caching can exceed 90%. This translates into a rapid return on investment and significant long-term savings, plus a reduction in backhaul traffic to better leverage existing network investments without the need for costly upgrades.

Accelerate Web 2.0 & Rich Media

MACH5 addresses popular websites, video served over HTTP, and large file updates. This includes content served from dynamically-generated URLs, marked as non-cacheable or difficult to cache using traditional mechanisms. In addition, MACH5 is fully DMCA-compliant and validates content freshness before serving content to the user to guarantee consistency with the origin server.

Address Encrypted Traffic

By leveraging built-in SSL inspection technology, MACH5 extends the power of caching to content served over HTTPS. With encrypted traffic volumes growing rapidly, this unique capability of MACH5 allows providers to maximize their savings on bandwidth and backhaul. To protect PII and users' privacy, advanced options are available to define what traffic gets decrypted and cached, for example based on categories or by targeting specific websites.

Stream Live & On-Demand Video

In addition to caching any content served over HTTP, MACH5 supports video protocols including Adobe Flash/HDS, Microsoft WMS/Smooth Streaming, Apple HLS/Quicktime and RealNetworks. With stream-splitting and on-demand video caching, providers can further conserve bandwidth and provide a high-quality user experience.

Ensure Caching Effectiveness

MACH5 taps CachePulse™ for cloud-based caching rule and instruction updates to ensure sustained bandwidth savings, even as the web changes or existing content providers change how they deliver their content. These updates are automatically updated to the deployed appliances with no intervention required.

Scale with User & Traffic Growth

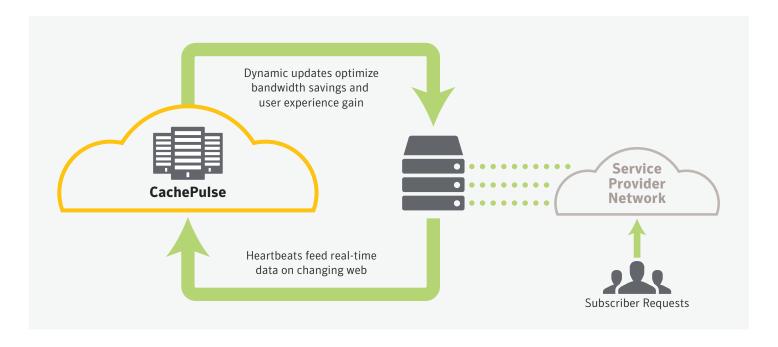
Multi-Gbps throughput is supported in a single MACH5 appliance employing LACP-enabled 1GigE or 10GigE interface options using copper or fiber. A cache farm architecture leveraging load-balancing switches allows for scaling to tens or hundreds of Gbps. Additional deployment options including in-line, PBR and WCCP are also supported.

Manage & Report on Traffic

Web-based management console and command-line tools are available for administration, monitoring performance or reporting on bandwidth savings. Network management integration is performed using SNMP and event logging via syslog. For multi-box deployments, MACH5 integrates with Symantec Management Center.

Maximize Investment with Add-on Features

For additional bandwidth savings, MACH5 includes compression, protocol optimization and byte caching. To enable these features, symmetric deployment with a device on both ends of the connection is required. Customers also have the option of purchasing an upgrade license to unlock the full ProxySG functionality, for example to address filtering requirements.



DATA SHEET | SYMANTEC MACH5

Symantec MACH5 Caching Edition		
SYSTEM		
Disk Drives	16x 1TB SAS	
Boot Device	2x 8GB SSD (redundant)	
RAM	128GB	
Onboard Ports	2x 10Gb Base-T Copper ports (with bypass) 2x 10Gb Base-T Copper ports (non-bypass) 1x 1000Base-T Copper, System Management Port 1x 1000Base-T Copper, BMC Management Port	
Optional NICs	2x 10GBase-T (copper, non-bypass) 2x 10Gb Fiber (SR with bypass capability) 2x 10Gb Fiber (LR with bypass capability)	
Available Slots	2x Full Height 3x Half Height	
Power Supplies	2	

PHYSICAL PROPERTIES		
DIMENSIONS AND WEIGHT		
Dimensions (L x W x H)	Chassis Only: 710mm x 433.3mm x 87.2mm (27.95in x 17.05in x 3.43in) Chassis w/ Extensions: 812.8mm x 433.4mm x 87.2mm (32in x 17.06in x 3.43in)	
Weight	Approx. 30kg (66.12 lbs) +/- 5%	
OPERATING ENVIRONMENT		
AC Power	Dual redundant and hot swappable power supplies; 100-240VAC, 50-60Hz, 12-5A	
Total Output Power	1100 Watts	
Thermal Rating	Typical: 2598.42 BTU/Hr; Max: 3751 BTU/Hr	
Optional DC Power	Input voltage range: 40–72 VDC; Input Max Current: 30A; Total Output Power: 1100W	
Temperature	5°C to 40°C (41°F to 104°F) at sea level	
Humidity	20 to 80% relative humidity, non-condensing	
Altitude	Up to 3048m (10,000ft)	

REGULATORY, ENVIRONMENTAL AND WARRANTY			
REGULATIONS	SAFETY	ELECTROMAGNETIC COMPLIANCE (EMC)	
International	CB-IEC60950-1, Second Edition	CISPR22, Class A; CISPR24	
USA	NRTL-UL60950-1, Second Edition	FCC part 15, Class A	
Canada	SCC-CSA-22.2 No.60950-1, Second Edition	ICES-003, Class A	
European Union (CE)	CE-EN60950-1, Second Edition	EN55022, Class A; EN55024; EN61000-3-2; EN61000-3-3	
Japan		VCCI V-3, Class A	
Mexico	NOM-019-SCFI by NRTL Declaration		
Argentina	S Mark-IEC 60950-1		
Taiwan	BSMI-CNS-14336-1	BSMI-CNS13438, Class A	
China	CCC-GB4943.1	CCC-GB9254; GB17625	
Australia/New Zealand	AS/NZS 60950-1, Second Edition	AS/ZNS-CISPR22	
Korea		KC-RRA, Class A	
Russia	CU-IEC 60950-1	GOST-R 51318.22, Class A; 51318.24; 51317.3.2; 51317.3.3	
Environmental	RoHS-Directive 2011/65/EU, REACH-Regulation No 1907/2006		
Product Warranty	Limited, non-transferable hardware warranty for a period of one (1) year from date of shipment. BlueTouch Support contracts available for 24/7 software support with options for hardware support.		
More Information	For further government certification information please contact Federal_Certifications@bluecoat.com .		
Product Warranty	Contact regulatory compliance certification questions and support		

