

Appliances UTM FAST360

Network Processor Appliance (NPA)



Small-series devices are security appliances which feature a host of functions: applicative filtering, IPSEC VPN and content analysis.

Fitted with 3 GB interfaces, including one 4-port switch, the S90R, S90 and S150 devices excel in meeting the security and performance requirements of remote sites (branches) in the case of large to midsize companies or of main sites in the case of small companies.

The S250 appliances with 4 routed ports and a 32 GB SSD disk can be integrated into the even most exacting architectures (availability of WAN links, multiple DMZ, Clusters, etc.) of average size SME up to 100 users.



Key Features



Firewall, intrusion prevention and detection

Firewall engine based on patented FAST – Fast Applicative Shield Technology.

Real-time analysis of network layer, transport layer and application layer protocols.

FAST in line IDPS using an intelligent signature-based approach to detect and block attacks.

Common Criteria EAL2+ certified.

BENEFITS //

- High performance of real-time analysis
- Durability of an engine that is regularly updated with new application modules (more than 20 application layer protocols)
- Prevention of attacks which do not break protocol rules and elimination of false positives
- Blocking of P2P (peer-to-peer) and instant messaging traffic

Cluster

The Clustering service is used to implement two appliances in parallel, providing identical services.

BÉNÉFICES //

- High Availability mode (active/passive) => service continuity without any reduction in performance
- High Performance mode (active/active) => distribution of heavy workloads over 2 appliances connected in parallel.

VoIP Security

Segmentation and security of VoIP traffic through adaptive synchronised analysis and filtering by the FAST and IDPS engines of voice signalling (SIP, MGCP, SDP, H323) and data (RTP/RTCP) protocols.

BENEFITS //

- Protect VoIP applications, IP PBXs, telephone system servers and terminals

- Detect and respond to unwanted, unauthorized or illicit incoming and outgoing calls
- Protect call confidentiality
- Protect against DOS (Denial of Service) attacks
- Block SPIT (Spam over IP Telephony), call spamming, IM spamming

Content Filtering

Antivirus and antispymware protection on smtp, pop3, http, ftp.

Integrated antivirus and antispymware engine developed by Sophos and incorporating Sophos Genotype™ technology.

Heuristic Antispam and E-mail filtering

Integrated advanced heuristic spam analysis engine, filters incoming and outgoing email (smtp and pop3).

Additionally email can be filtered on the basis of key words, white/blacklist entries, file attachments, time of day...

URL and Web filtering

Integrated web filtering engine allows blocking of javascript, activX and other applets/embeds, and filters URLs in 50 categories regularly updated and customisable to adapt to business localisation and activity.

BENEFITS //

- The only UTM appliances integrating genuine heuristic antispam filtering
- Improve web and email performance
- Protect against dangerous or undesirable content
- Enhanced protection through multiple complementary filtering techniques

IPSEC VPN

Integrated IPsec VPN functionality supports encrypted tunnels for secure site-to-site, remote office or road-warrior interconnectivity.

BENEFITS //

- Secure site-to-site interconnection over non-secure networks with support for backup link configurations and multi-link load balancing
- Encryption of confidential data exchanges
- Easy, automated configuration simplified with VPN community management

Dynamic Routing and QoS

FAST360 appliances incorporate support for dynamic routing (RIP, OSPF and BGP), VLAN management and bridge mode operation.

Port trunking, bandwidth management and load sharing features facilitate QoS management.

BENEFITS //

- VLAN-based traffic filtering
- Network traffic optimisation and load sharing

Authentication

FAST360 UTM appliances are compatible with LDAP, Radius, AD (including Windows 2003) and NT authentication servers and support certificate-based strong authentication. Capable of interfacing with external PKI servers, FAST360 appliances easily integrate into enterprise certificate architectures, allowing user-based traffic filtering.

BENEFITS //

- Manage and filter traffic and access to resources
- Compatible with pre-existing authentication architectures

Centralized Management

FAST360 appliances are delivered with Arkoon Tools, a software suite allowing for centralized GUI-based configuration, deployment and monitoring of consistent enterprise-wide security policies across multiple FAST360 appliances. FAST360 appliances can also be managed through Arkoon Management Center, a server-based solution ideal for larger networks.

BENEFITS //

- Optimized management, reduced cost of ownership

Specifications



Small Series

Small-90R / Small-90 / Small-150 / Small-250

Cavium Octeon Multicore Processors

The Network Processor Appliances are fitted with the latest Cavium Octeon multicore technology.

This technology, optimized for network processing, brings the following advantages:

- Very significant reduction in latency in the processing of flows so as to reach very high speeds regardless of the size of the packets transported.

- Remove bottlenecks by reserving (for example) one or more cores of the Cavium processor for special processing operations.*
- Optimize some intensive processing operations (routing, encryption, etc.) by executing them closer to the hardware.*

* Version FAST360 PostV5.0

	Small-90R	Small-90	Small-150	Small-250
Performance				
Firewall rate (Mbps)	90	90	150	250
VPN rate (Mbps)	30	30	50	100
Application Filtering rate (FAST+IDPS) (Mbps)	40	40	50	100
Simultaneous connections	120 000	120 000	120 000	120 000
New connections / second	2 800	2 800	2 800	3 500
Number of Users	10	unlimited	unlimited	unlimited
Hardware characteristics				
Processor / Number of cores	Cavium Octeon/1 core			Cavium Octeon/ 1 core
Console port	1 (RJ45)			1 (RJ45)
USB Ports *	1			-
Gigabit switch	1 (4 switched ports)			-
Fast Ethernet 10/100 ports	-			1
Gigabit copper 10/100/1000 ports	2			3
Hard Disk Capacity	SSD - 2 Go			SSD - 32 Go
Firewall VPN				
FAST Application Filtering – Intrusion Prevention System				
Real-time filtering (hub mode)	yes			
Protocols analyzed– levels 3,4	IP, TCP, UDP, ICMP			
Application protocols analyzed	http, ftp, smtp, pop3, nntp, dns, dns udp, SQLNet, snmp, flux netbios, imap4, H323, sip, mgcp, SSL/TLS			
Protection against DOS and DDOS	yes			
Protection against protocol violations	yes			
VoIP Security				
Checking signaling (SIP/MGCP/H.323/SDP)	yes			
Checking media flows (RTP/RTCP)	yes			
Adaptive Filtering: Correlation between the analysis of media flows and signaling	yes			
FAST Intrusions Detection System (IDPS)				
Contextual analysis base	yes			
Operation in the event of failure or in alert mode	yes			
Automatic updating of the signature base	yes			
IPSEC VPN				
Authentication	X509 Certificate, shared keys, RSA keys			
Encryption algorithms	DES, 3DES, AES, Blowfish			
Advanced functions	Traversal NAT, Dead Peer Detection			

* Future utilization

Specifications



Small Series

Small-90R / Small-90 / Small-150 / Small-250

	Small-90R	Small-90	Small-150	Small-250
Authentication				
By flow with Arkoon authentication agent			yes	
Directories supported		NT, Act. Directory, Radius, LDAP		
By digital certificates (external and internal appliance PKI)			yes	
Strong authentication (Token, smartcard, RSA Secure ID...)			yes	
Content analysis				
Antivirus & Antispyware				
Antispyware integrated			yes	
Viral genotype viral (proactive detection of viruses)			yes	
Flows analyzed		HTTP, SMTP, POP3, FTP		
Number of viruses detected		> 100 000		
Automatic, centralized updating			yes	
URL filtering and Web filtering				
URL filtering			yes	
Automatic updating of URL bases			yes	
ICAP support for URL filtering			yes	
Blocking of Java, Activ X applets			yes	
E-mail filtering and anti-spam				
E-mail filtering		By keywords, senders, recipients, attachments		
Antispam analysis method		DNSBL and "Recurring Pattern Detection" for incoming and outgoing e-mails" (pop3 et SMTP)		
External quarantine			yes	
Network functions				
Routing - Mode of operation				
Static and Dynamic Routing		RIP, OSPF, BGP		
Transparent Mode (Level 2)			yes	
NAT / PAT			yes	
PPTP, PPPoE, PPPoA, IP over ATM			yes	
Filtering via VLAN		Mode 802.1q		
Number of VLAN supported		4095		
DHCP		Relay & Server		
Load allocation - Quality of Service				
Link backup		Yes : WAN & VPN		
Load allocation		Yes : WAN & VPN		
Aggregation of links			yes	
Quality of Service: prioritization of flows, queue management and marking		Diffserv compliance		
Availability				
Supported modes		High-availability (Active/Passive) and High-Performance (Active/Active)		
Number of nodes		2		
Restart of active connections		Yes		

Specifications



Small Series

Small-90R / Small-90 / Small-150 / Small-250

	Small-90R	Small-90	Small-150	Small-250
Administration				
Configuration via Arkoon Manager (Windows and Linux)		yes		
Monitoring & Supervision via Arkoon Monitoring (Windows & Linux)		yes		
Role Management		Yes (6 predefined roles)		
Centralized, Secure Administration (SSL)		yes		
LAN/WAN remote connections		yes		
Console mode and command line mode		yes		
Remote updating of system		yes		
Alarm reporting		By email, console, SNMP traps		
SNMP supervision (MIB standard)		yes		
Syslog compatibility		yes		
WebTrend compatibility		yes		
Arkoon Management Center (AMC) compatibility		yes		
Dimension / Environment				
Format		Slim Desktop		Rack 1U
L / W / H (mm)		220 / 175 / 33		429 / 260 / 44
Weight		1,2 Kg		3,2 Kg
Operating temperature		0 to 40°C		0 to 40°C
Operating humidity		20 to 90%		20 to 90%
Storage temperature		0 to 75°C		0 to 75°C
Storage humidity		5 to 95%		5 to 95%
Power Supply		100/ 240 Vac		100/ 240 Vac
Frequency of Supply		48 – 63 Hz		48 – 63 Hz
Max. Elect Power		40 W		65 W
Certifications		CE, FCC, ROHs		CE, FCC, ROHs, UL

See all our products and their detailed datasheets on: www.arkoon.com



ARKOON

1, Place Verrazzano - CS 30603
 69258 Lyon Cedex 09 - France
 Tél : +33 (0)4 72 53 01 01
 Fax : +33 (0)4 72 53 12 60
www.arkoon.com

