ZYXEL
Your Networking Ally

ATP

Smart cloud, defeat the unknown

Smart Cloud, Defeat the Unknown

Advanced Threat Protection
Solution Brief

We turn the unknown to the known

Advanced Threat Protection

We block, learn, and prevent unknown threats

Modern cyber attacks does not only come in multiple volumes, but also in a diverse landscape – Cryptojacking skyrocketed up 8500% in 2017, malware implants has surged, and ransomware variants increased 46% with massive impacted areas.

ZyWALL ATP Firewall is empowered by smart cloud intelligence, giving it seamless protection against all Advanced Persistent Threats, featuring ultimate defense with in-depth prediction of unknown attacks.

Real-time Synchronization

Cloud intelligence constantly provides the most updated top-ranked threat protection from its cloud database into all ATP devices to defend them from a wide range of threats. This daily threat update is way ahead of conventional signature update, useful to defy Zero Day threats.

Global Sharing Synergy

Linked together with real-time cloud-and-device intelligence synchronization, with each threat detected on an individual ATP gateway can ultimately benefit the Cloud Intelligence as well as all other deployed ATP devices, forging a seamless security ecosystem with valuable "one for all, all for one" effect.

ZyWALL ATP Next Generation Firewall

Timely Defense for Ultimate Protection

How ATP works

The ZyWALL ATP Firewall Series is an advanced threat protection firewall empowered with cloud intelligence to level up network protection to a higher level especially in tackling unknown threats. Fully compliant with GDPR, the ZyWALL ATP Firewall Series ensures that all your data is private.

Thanks to cloud machine learning, the ZyWALL ATP Firewall Series can safely analyze all unknown file enquiries, determine if the unknown file enquiries are new threats, and then update the inspection results into the Cloud Threat Database. This self-evolving cloud security intelligence enables growing protection with each new threat detected. The unity of cloud intelligence and all deployed ATP firewalls collectively work together by making a safer online ecosystem to achieve in-depth defense.

Self-evolving Cloud Intelligence

Cloud intelligence receives all unknown files or user patterns from Zyxel ATP firewall's enquiry then identifies and archives inspection results in cloud threat database. It then pushes the most top-ranked threat intelligence into all ATP firewalls so that all ATP devices are all within the seamless defense shield against new unknown threats. With the real-time cloud-device synchronization, the cloud intelligence becomes a continuously-growing and self-evolving security defense ecosystem, adaptive to external attacks and also more importantly keeping all ATP firewalls in sync at all times.

Sandboxing- Know the Unknown

Sandboxing is an isolated cloud environment to contain unknown files that cannot be identified by existing security service on device and to emulate those unknown files to identify whether they are malicious or not. Key values from sandboxing is to inspect packet behavior in isolation so the potential threat does not enter the network at all, and also to identify new malware types which the conventional static security mechanism may not detect. Cloud sandboxing with Zyxel ATP Firewall Series is preventive measure for zero-day attacks of all sorts.

Know the Unknown

- **Contain** unknown files
- **Execute** files in virtual environment
- **Analyse** file content and behavior
- **Identify** Malicious attacks
- Defense Intelligence
- Unknown Threats
- **Update** New threat information into database
- DANGER
- .ZIP
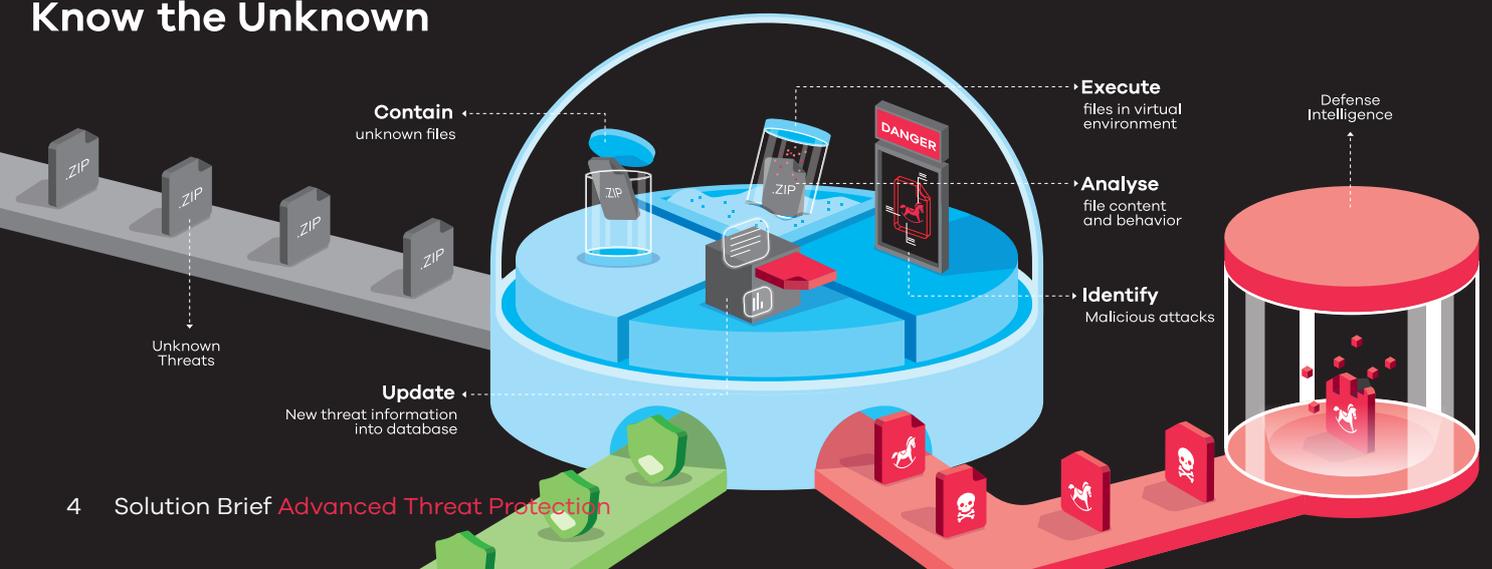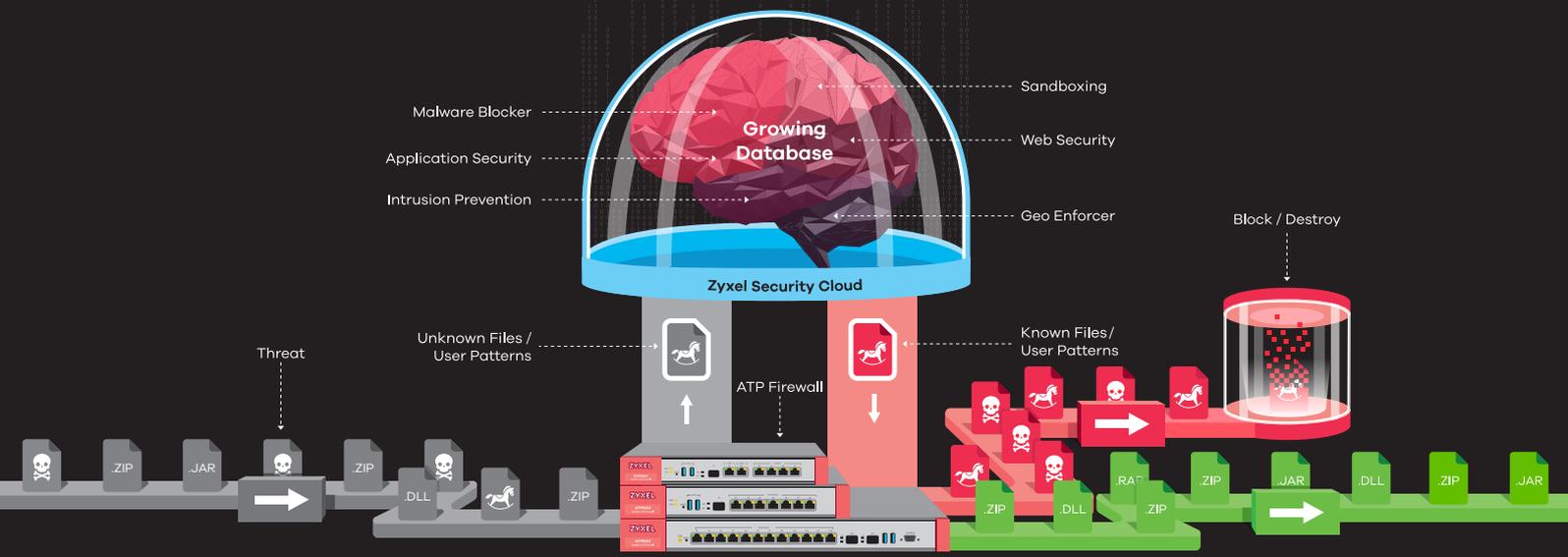
Analytical Cloud Report

The Zyxel Cloud CNM SecuReporter is a cloud-based intelligent analytics and report service, providing network administrators with a centralized view of user activities and threats statistics within the entire network.

The Cloud CNM SecuReporter features a suite of analysis and reporting tools, including network security threats identification and analysis, security services, security events, application usage, website usage and traffic usage, VPN status and Device Health status, etc. Users can also run customized report on-demand or on a regular schedule such as daily, weekly, and monthly.

User Friendly Interface

The ZyWALL ATP Firewall Series provides a dashboard that conveniently displays since-reboot traffic statistics and seven-day security threat results all on one page for quick insights. Security threat reports hit counts and threat information, covering sandboxing, top IP/URL blocked, top applications blocked etc, with dynamic charts giving a clear and concise visualized view. This user-friendly interface enables ATP users to monitor network security and scanned traffic from a single screen in real-time.

Reputation Filter- Preemptive IP Threat Defense

Reputation Filter matches up IP addresses with a real-time cloud database that tracks malicious cyber activities and determines if its address is reputable or not. This improves blocking efficiency, reduces hardware utilization, giving administrators additional network resources to quickly and easily address any issues. Reputation Filter also increases threat visibility in SecuReporter (included in bundle pack) which assists in tracing cyber threat sources.

High Assurance Multi-layered Protection

History has proven that a single-focus solution is useful in stopping specific attack; the capabilities of advanced malware are so broad that such protection inevitably fails. The ZyWALL ATP Firewall Series is designed with multi-layered protection guard against multiple types of threats from in and out. It contains comprehensive security features like botnet filter, sandboxing, app patrol, content filtering, anti-malware, and IDP. ATP firewalls are sure to start safeguarding your network as soon as the device begins up and running without any unattended gaps.

Restrict risky online behaviors

Block security threats

ATP

Geo Enforcer

Web Security

Application Security

Cloud Sandboxing

Malware Blocker

Intrusion Prevention

Reputation Filter

Internet
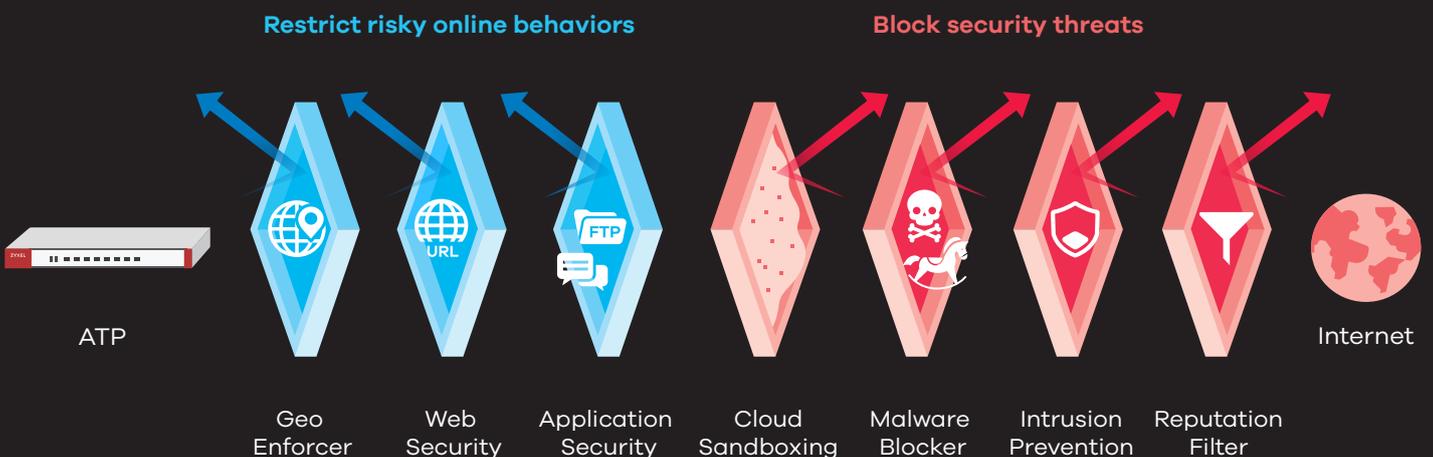
Product at a glance

ZyWALL ATP
Firewall Series

Machine learning cloud intelligence with global sharing synergy

Sandboxing defeats unknown threats

Reporting and analytics on cloud and device

High assurance multi-layered protection

ATP Licenses & Services

ZyWALL ATP security license is bundled with one-year Gold Security Pack by default. All essential service modules are included. You can renew the Gold Security Pack once the second year starts.

Sandboxing
It can safely run unknown files, determine whether it is malicious or not, and share the results.

Application Security
The module is designed for secured application and email behaviors.

Web Security
Blocks known and unknown malicious URLs, malware, phishing/botnet sites, APTs, and zero-day attacks.

Malware Blocker
Stream-based detection and prevention of malware hidden within compressed files, web contents, or other common file types.

Reputation Filter
Automatically block threats from malicious IPs. This preventive feature significantly cuts down on the system resources required for deep traffic inspections.

Intrusion Prevention
Scans the network traffic stream in-depth, packet by packet, to find threats (SQL and DoS) by using known exploits and attack vectors.

Geo-Enforcer
Map IP addresses to the sources or destination of attack traffic and restrict Internet access from high risk countries.

Managed AP Service
Includes a built-in remote management for AP deployment and monitoring.

SecuReporter
Provides network administrators a centralized view of network activities and potential threats within the network. Run report on-demand or on a scheduled basis.

License Packs

License Service	Feature	ZyWALL ATP100/200/500/800[1]
		Gold (1 Year/2 Years)
Sandboxing	Sandboxing	Yes
Web Security	Content Filter	Yes
	Botnet Filter	Yes
Application Security	App Patrol	Yes
	Email Security	Yes
Malware Blocker	Anti-Malware	Yes
	Cloud Query	Yes
	Threat Intelligence Machine Learning	Yes
Intrusion Prevention	IDP	Yes
Reputation Filter	IP Reputation Filter	Yes
Geo Enforcer	GeoIP	Yes
Managed AP Service[2]	Wireless Controller	Unlock to max
SecuReporter	SecuReporter Premium	Yes

*1: All ATP models are bundled with one-year Gold Security Pack by default, and this pack cannot be transferred.

*2: Gold Pack gives a year of unlocked managed AP nodes (10 APs for ATP100, 18 APs for ATP200, 34 APs for ATP500, 130 APs for ATP800), only 2 APs will be supported if it's no longer renewed.

Feature matrix

Model	ZyWALL ATP100	ZyWALL ATP200	ZyWALL ATP500	ZyWALL ATP800
Product photo				
Hardware Specifications				
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 1 x WAN, 1 x SFP	4 x LAN/DMZ, 2 x WAN, 1 x SFP	7 (Configurable), 1 x SFP	12 (Configurable), 2 x SFP (Configurable)
USB 3.0 ports	1	2	2	2
Console port	Yes (RJ-45)	Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mountable	-	Yes	Yes	Yes
Fanless	Yes	Yes	-	-
System Capacity & Performance[1]				
SPI firewall throughput (Mbps)[2]	1,000	2,000	2,600	8,000
VPN throughput (Mbps)[3]	300	500	900	1,500
IDP throughput (Mbps)[4]	600	1,200	1,700	2,700
AV throughput (Mbps)[4]	250	450	700	1,200
UTM throughput (AV and IDP)[4]	250	450	700	1,200
Max. TCP concurrent sessions[5]	300,000	600,000	1,000,000	2,000,000
Max. concurrent IPSec VPN tunnels[5]	40	40	200	1,000
Concurrent SSL VPN users	10	10	50	100
VLAN interface	8	16	64	128
Speedtest Performance				
SPI firewall throughput (Mbps)[6]	850	900	900	930
WLAN Management				
Managed AP number (1 Year bundled)[7]	10	18	34	130
Security Services[8]				
Sandboxing	Yes	Yes	Yes	Yes
Web Security	Yes	Yes	Yes	Yes
Application Security	Yes	Yes	Yes	Yes
Malware Blocker	Yes	Yes	Yes	Yes
Intrusion Prevention (IDP)	Yes	Yes	Yes	Yes
Reputation Filter	Yes	Yes	Yes	Yes
Geo Enforcer	Yes	Yes	Yes	Yes
SecuReporter	Yes	Yes	Yes	Yes
Key Features				
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
SSL (HTTPS) Inspection	Yes	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes	Yes
Microsoft Azure	Yes	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes	Yes
Device HA Pro	-	-	Yes	Yes

Feature matrix

Model		ZyWALL ATP100	ZyWALL ATP200	ZyWALL ATP500	ZyWALL ATP800
Power Requirements					
Power input		12 V DC, 2 A max.	12 V DC, 2.5 A max.	12 V DC, 4.17 A	100-240 V AC, 50/60 Hz, 2.5 A max.
Max. power consumption (watt)		12.5	13.3	24.1	46
Heat dissipation (BTU/hr)		42.65	45.38	82.23	120.1
Physical Specifications					
Item	**Dimensions (WxDxH) (mm/in.)**	216 x 143 x 33/ 8.50 x 5.80 x 1.30	272 x 187 x 36/ 10.7 x 7.36 x 1.42	300 x 188 x 44/ 11.81 x 7.4 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73
	Weight (kg/lb.)	0.85/1.87	1.4/3.09	1.65/3.64	3.3/7.28
Packing	**Dimensions (WxDxH) (mm/in.)**	284 x 190 x 100/ 11.18 x 7.48 x 3.94	427 x 247 x 73/ 16.81 x 9.72 x 2.87	351 x 152 x 245/ 13.82 x 5.98 x 9.65	519 x 392 x 163/ 20.43 x 15.43 x 6.42
	Weight (kg/lb.)	1.4/3.09	2.23 (W/O bracket) 2.42 (W/ bracket)	2.83/6.24	4.8/10.58
Included accessories		• Power adapter • RJ-45 cable • RS-232 cable	• Power adapter • Rack mounting kit	• Power adapter • Power cord • Rack mounting kit	• Power cord • Rack mounting kit
Environmental Specifications					
Operating environment	**Temperature**	0°C to 40°C/ 32°F to 104°F	0°C to 40°C/ 32°F to 104°F	0°C to 40°C/ 32°F to 104°F	0°C to 40°C/ 32°F to 104°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage environment	**Temperature**	-30°C to 70°C/ -22°F to 158°F	-30°C to 70°C/ -22°F to 158°F	-30°C to 70°C/ -22°F to 158°F	-30°C to 70°C/ -22°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		989,810.8	529,688.2	529,688.2	947,736
Acoustic noise		-	-	24.5 dBA on < 25°C operating temperature, 41.5 dBA on full FAN speed.	25.3 dBA on < 25°C operating temperature, 46.2 dBA on full FAN speed.
Certifications					
EMC		FCC Part 15 (Class B), CE (Class B), RCM (Class B), BSMI	FCC Part 15 (Class B), CE (Class B), RCM (Class B), BSMI	FCC Part 15 (Class A), CE (Class A), RCM (Class A), BSMI	FCC Part 15 (Class A), CE (Class A), RCM (Class A), BSMI
Safety		LVD, BSMI	LVD, BSMI	LVD, BSMI	LVD, BSMI

*: This matrix with firmware ZLD4.35 or later.
*1: Actual performance may vary depending on network conditions and activated applications.
*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).
*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.
*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool
*6: The Speedtest result is conducted with 1Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.
*7: Once Gold Pack has expired, 2 APs will only be supported.
*8: Enable or extend feature capacity with Zyxel service license.

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