Intrusion Shield OnPremise

Shield OnPremise, powered by our Global Threat Engine, provides zero trust security that automates the detection and prevention of communications with unauthorized servers, high risk domains, and untrusted destinations.

Why Shield OnPremise?

The dynamic and persistent nature of cybersecurity threats means that today's attacks originate from or communicate to a broad range of Internet locations. Legacy security technologies and practices trust unknown risk locations by default, allowing communications or file downloads. They hope to detect malicious behavior after the malware has already begun attacking protected systems. To address these network security threats, we must reimagine our network security mindset to one of verify before trust. We have to know who our network is talking to and allow communication only with trusted IP addresses.

The Intrusion Shield OnPremise solution provides unrivaled security for all networked devices by starting security at the lowest communication level. Using our Global Threat Engine, Shield OnPremise allows communication packets to be sent or received with only low risk and pre-authorized Internet locations. Attacker reconnaissance, malware downloads, and malware commands are all stopped by preventing communications to their high-risk locations.

What is Shield OnPremise?

Shield OnPremise is a network security appliance that enables enterprises to monitor and control network communications for all devices on their network including IoT, BYOD, laptops, and servers. Shield OnPremise ensures a device communicates with either trusted devices or allowed low risk devices on the Internet. Shield OnPremise prevents both outbound communications to untrusted locations and inbound communications from untrusted locations.

What can Shield OnPremise do for you?

Shield OnPremise stops attacker reconnaissance, ransomware, phishing, malware downloads, command and, zero-day attacks, data exfiltration and othercontrol elusive threats by preventing communications with high risk and untrusted entities. Shield OnPremise protects all networked devices including IoT, BYOD, laptops, and servers.

Reduce your attack surface and provide defense-in-depth supported by our Global Threat Engine that knows the threat risk expected from trillions of IP addresses and domains.



Network and IoT Security

Landscape

Network security works by establishing firewalls at network boundaries and then using rules to allow safe-passage for desired communications. Due to the limited number of rules and how they are defined these holes can be exploited by attackers, malware, and malicious communications. Next Gen Firewalls and IDPS systems try to identify an exploitation of firewall rules only after the network has been compromised.

Shield Differentiators

Shield OnPremise protects all networked devices by reducing the attack surface and minimizing risks by only allowing communications with trusted devices. It provides protection for reconnaissance, phishing, bots, command-and-control, and data exfiltration while preventing the download of malware into your network.

Shield OnPremise blocks any communications from phishing links from reaching untrusted/ high-risk IP addresses and new domains and rarely used IP addresses are untrusted by default. Malware is prevented from downloading and phishing attackers are not informed a link was clicked.

Malware and Ransomware Security

Landscape

Legacy protection tools allow communications and downloads from unknown, untrusted, and high-risk IP addresses. Malware and Ransomware enter your network from these communications and downloads.

Shield Differentiators

Shield OnPremise risk scores every location (IP address and domain name) on the Internet and prevents communications with high-risk locations. As a result, malware and ransomware downloads and command and control communications are prevented.

Advanced Threat Security

Landscape

Network security appliances such as Next Gen Firewalls and IDPS systems have limited rules and allow communications with unknown locations by default. They use advanced analysis techniques that only identify malware and bad actors once in the network.

Shield Differentiators

Shield OnPremise detects threats that elude firewall rules and IDPS prevention layers by automatically preventing communications with bad actors and other high-risk locations on the Internet. Full logging of communication attempts, both blocked and allowed, enables threat hunting and network forensics.

Phishing Security

Landscape

Email protection tools such as Microsoft, Proofpoint, and Mimecast still allow Phishing and SPAM emails into your inbox. If you click the link then your firewall allows you to download the malware.

Shield Differentiators

Shield OnPremise stops phishing link communications from reaching their destinations by preventing communications with untrusted and high-risk locationa. This stops the malware download and prevents the attacker from learning that the link was clicked.



Level of protection Shield provides within the Mitre ATT&CK Framework

Step	ATT&CK	Description	Level of Protection			
1	Reconnaissance	The adversary is trying to gather information they can use to plan future operations.	Green			
2	Resource Development	The adversary is trying to establish resources they can use to support operations.	Yellow			
3	Initial Access	The adversary is trying to get into your network.	Green			
4	Execution	The adversary is trying to run malicious code.	Yellow			
5	Persistence	The adversary is trying to maintain their foothold.	Green			
6	Privilege Escalation					
7	Defense Evasion	The adversary is trying to avoid being detected.	Yellow			
8	Credential Access					
9	Discovery	The adversary is trying to figure out your environment.	Green			
10	Lateral Movement	The adversary is trying to move through your environment.	Green			
11	Collection	Collection The adversary is trying to gather data of interest to their goal.				
12	Command and Control					
13	Exfiltration	The adversary is trying to steal data.	Green			
14	Impact	The adversary is trying to manipulate, interrupt, or destroy your systems and data.	Yellow			
The Mitre ATT&CK Framework details the primary steps an attacker takes to execute an attack on a victim network. This framework forms the Mitre ATT&CK cyber kill chain.						

Shield OnPremise protects the Network at every step within the Mitre ATT&CK cyber kill chain by preventing communications with untrusted devices on the Internet.

Target Customers

- 1. Net New Customers: opportunity to present the Shield family of security systems. Deliver uncompromised enterprise security for all business sizes.
- 2. Existing Customers: Upscale to the full Shield family of security systems, all powered by our Global Threat Engine.
- 3. Verticals: branch, small enterprise, midsize enterprise, large enterprise, datacenter, healthcare, retail/wholesale, travel and leisure, financial, government, MSSP



	Competitive Benefits of Shield OnPremise						
	Unique Abilities – Communication-oriented security. Provides phishing protection, O-Day protection, Safe Web browsing, Prevents high-risk downloads, stops bot communications, stops command and control, stops ransomware, stops data exfiltration, enables threat hunting and cyber forensics						
Shield OnPremise	Preemptive and Preventive Approach – Preemptively stops communications with high-risk entities and prevents delivery of malicious files and malicious commands to your network						
	Protects IoT and embedded devices – all devices on the network are protected, limiting external access to low functionality IoT and embedded devices that have limited security.						
	Communication Logs enable threat hunting and forensic analysis						
	Superior Threat Intelligence – Global Threat Engine provides a comprehensive, real- time, risk score						
How to Compete							
	Attempts to identify malicious behavior occurring on the network through signatures and rules.						
Next Gen Firewall (Palo Alto Networks, Check Point, Netscout,	Reactive approach identifies malicious activity based on behavior already occurring on the network. Allows communications by default, enabling communications and downloads from unknown risk locations enabling phishing, command-and-control, and malware/ransomware downloads.						
Cisco FirePower, Trellix,	Allows outbound communications to all but well-known high-risk locations.						
Fortinet)	Limited threat hunting and forensic analysis from performance degrading logging.						
	Limited threat intelligence looking only for prior identified behavior signatures and well-known high-risk locations.						
	Attempts to identify malicious behavior occurring on the network through signatures and rules.						
Intrusion Detection and Prevention	Reactive approach identifies malicious activity based on behavior already occurring on the network.						
Systems (IDPS)	Allows `communications to all but well-known high-risk locations.						
(Check Point, Netscout, Cisco, Trellix)	Limited threat hunting and forensic analysis from performance degrading logging.						
······,	Limited threat intelligence looking only for prior identified behavior signatures and well-known high-risk locations.						
	Monitors all traffic according to defined rules.						
Firewall (Palo Alto Networks,	Allows communications by default, allowing outbound connections enabling communications and downloads from unknown risk locations enabling phishing, command-and-control, and malware/ransomware downloads.						
Cisco, PFSense, Check Point, Netscout, Trellix)	Allows outbound communications to all but well-known high-risk locations.						
	Limited threat hunting and forensic analysis from performance degrading logging.						
	Limited threat intelligence looking only for prior identified behavior signatures and well-known high-risk locations.						

Common Use Cases for Shield OnPremise

- A. Prevent malware/ransomware download
- B. Stop phishing click downloads
- $C. \ \ Detect \ endpoint \ threats \ and \ existing \ malware$
- ${\sf D}. \ \ {\sf Stop} \ {\sf illicit} \ {\sf device} \ {\sf scanning} \ {\sf and} \ {\sf reconnaissance}$
- E. Stop malware command and control
- F. Stop zero-day attacks

- G. Prevent data exfiltration
- H. Discover shadow IT
- I. Protect mobile devices
- J. Protect IoT and embedded devices
- K. Protect BYOD devices while on the network



Vendors	Shield OnPremise	NextGen Firewall	IDPS	Firewall		
Phishing Protection				\bigcirc		
Zero-Day Protection				\bigcirc		
Safe Browsing				\bigcirc		
Download Protection						
Command & Control Protection				\bigcirc		
Anti-Bot Protection				\bigcirc		
URL Filtering				\bigcirc		
Data Exfiltration				\bigcirc		
Threat Hunting & Forensics Support						
Lateral Movement Detection & Protection		\bigcirc	\bigcirc	\bigcirc		
Anti-Virus/Malware Detection & Protection				\bigcirc		
Firewall Rules	\bigcirc		\bigcirc			
Zero Trust Approach		\bigcirc	\bigcirc	\bigcirc		
Machine Learning						
Annual Price per User	240	300	204	240		
ZT cloud solutions enable secure communications to the ZT cloud but do not protect the endpoints. AV/EDR protect the endpoints after malware is downloaded but do not provide ZT communications. Shield OnPremise provides ZT Communications, protects the endpoint, and supports AV/EDR.						

