Seeing the Future: Sophos Introduces Deep Learning into its Synchronized Security Portfolio

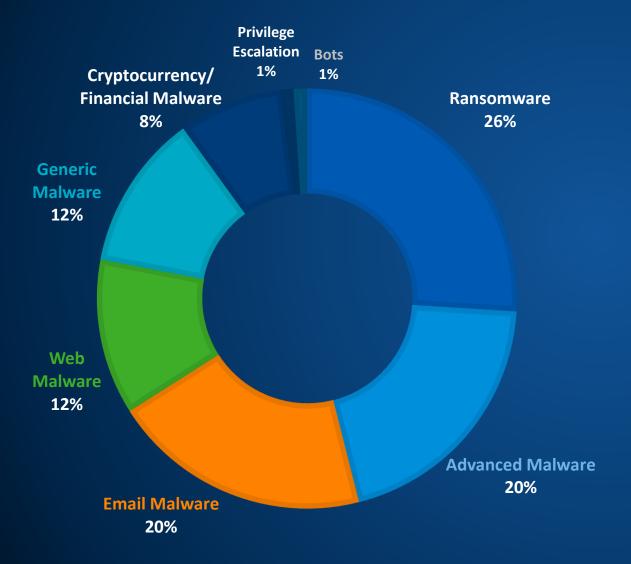
Malay Upadhyay
Senior Sales Engineer



Threat Landscape

SOPHOS

The Threat Landscape Has Shifted





Ransomware

54% of organizations hit twice on average in 2017[^]



Advanced Threats

83% agree it has become more difficult to stop threats ^



Exploits

Most organizations have no exploit prevention[^]

Source: SophosLabs

Threats are unknown, making them harder to detect

400,000

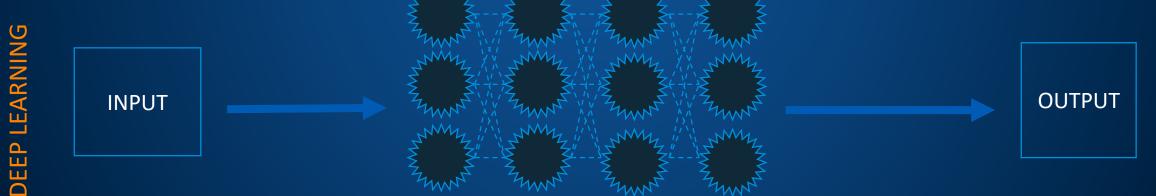
SophosLabs receives and processes 400,000 previously unseen malware samples each day.



75% of the malicious files
SophosLabs detects are found
only within a single
organization.

Predictive Security with Deep Learning





Interconnected Layers of Neurons, Each Identifying More Complex Features

Sophos Deep Learning



- Based on deep neural networks comparable to the human brain
- Detects known and unknown threats without signatures
- Extremely fast typical detection in < 20ms
- No internet connection needed works offline
- Works out-of-the-box, no training on customer environment necessary
- Very reliable lowest False Positive rate
- Profits from 30 years of experience and 100s of millions of samples
- Proven very effective in independant tests!

"One of the *best performance scores* we have ever seen in our tests"

Maik Morgenstern, CTO, AV-TEST



Synchronized Security

Synchronized Security

Linking Network and Endpoint security to deliver unparalleled protection by automating threat discovery, analysis, and response.



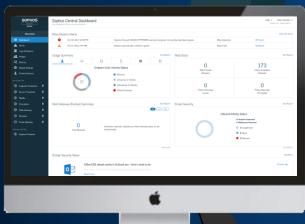
Endpoint

Firewall

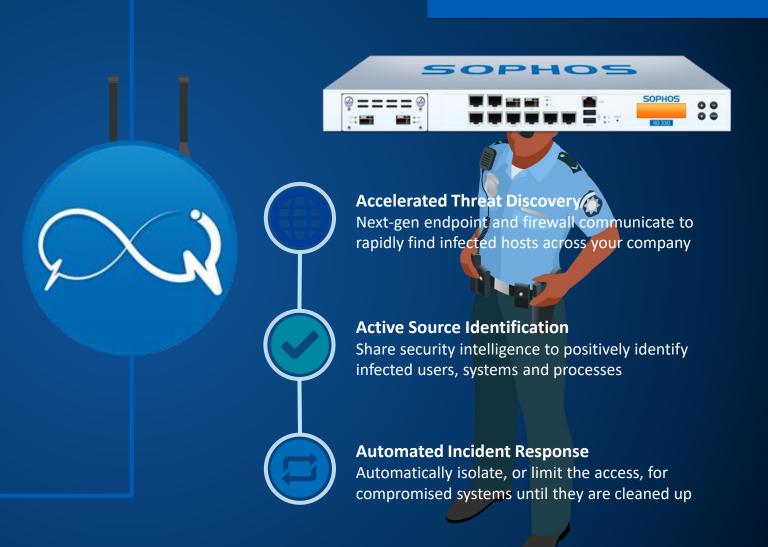


Synchronized Security



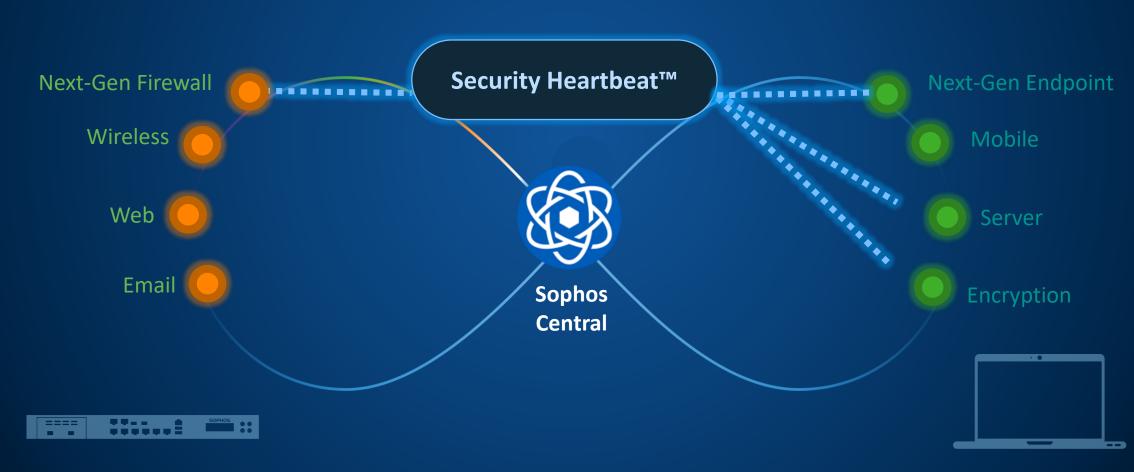


Next-Gen Endpoint

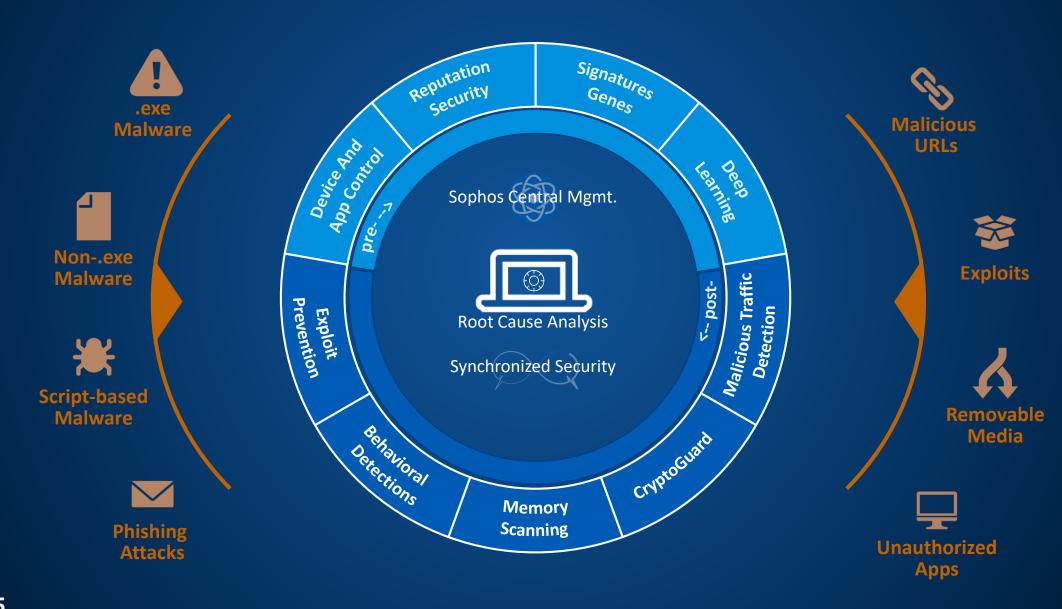


XG Firewall

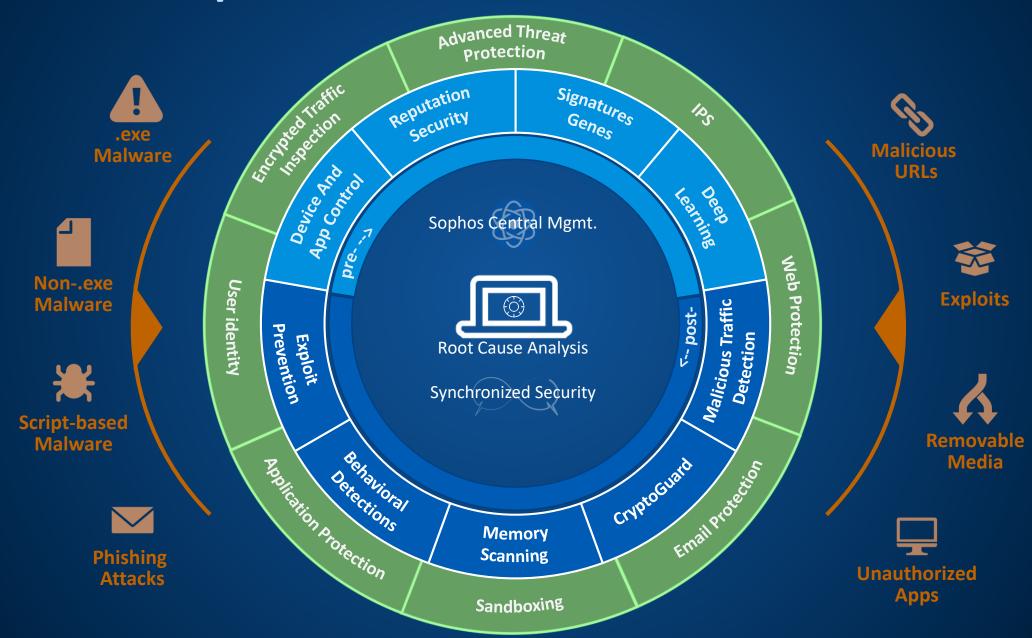
Sophos Synchronized Security



Next-Gen Endpoint



Next-Gen Endpoint + Network Protection



Synchronized Security Products

Accessing Synchronized Security



NEXT-GEN ENCRYPTION

SAFEGUARD ENCRYPTION

- ENTERPRISE ENCRYPTION
- FILE ENCRYPTION ADVANCED



NEXT-GEN ENDUSER SECURITY

SOPHOS CENTRAL-MANAGED ENDPOINT

- SOPHOS ENDPOINT ADVANCED (CEA)
- SOPHOS ENDPOINT INTERCEPT X (CIX)



NEXT-GEN
NETWORK SECURITY

NEXT-GEN XG FIREWALL

- NETWORK PROTECTION MODULE
- ENTERPRISEGUARD LICENSE
- ENTERPRISEPROTECT BUNDLE

Sophos XG Firewall

Solving today's top problems with existing Firewalls







Simpler to manage

- ✓ Streamlined workflows
- ✓ Unified policies
- ✓ Policy templates



Instant visibility

- ✓ New control center
- ✓ User & App Risk
- ✓ On-box reporting



Complete protection

- ✓ Firewall & Wireless
- ✓ Web, APT, Apps
- ✓ Email and WAF
- ✓ Sandboxing



Synchronized security

- ✓ Linking firewall & EP
- ✓ Security Heartbeat™
- ✓ Dynamic app ID



Top performance

- ✓ Industry-leading HW
- ✓ FastPath optimization
- √ High-performance proxy



Central Management

- ✓ Full-featured & consistent
- ✓ Cloud or on-premise
- ✓ Free for partners

Sophos INTERCEPT











Protection against Ransomware & Co

Anti-Hacker

Extended Cleanup

Root Cause Analysis

- Deep Learning detects unknown Malware
- CryptoGuard detects
 Encryption and restores
 the original files
- Signatureless Protection against Zero-Day attacks
- **Exploit** Detection
- Anti-Hacker technologies
- Credential Theft Protection

- Signatureless Removal unknown Malware
- Restores original files

- Graphical analysis of malware infection and propagation
- What has happened?
- What is **affected**?
- How do I **prevent** this in the **future**?

SOPHOS

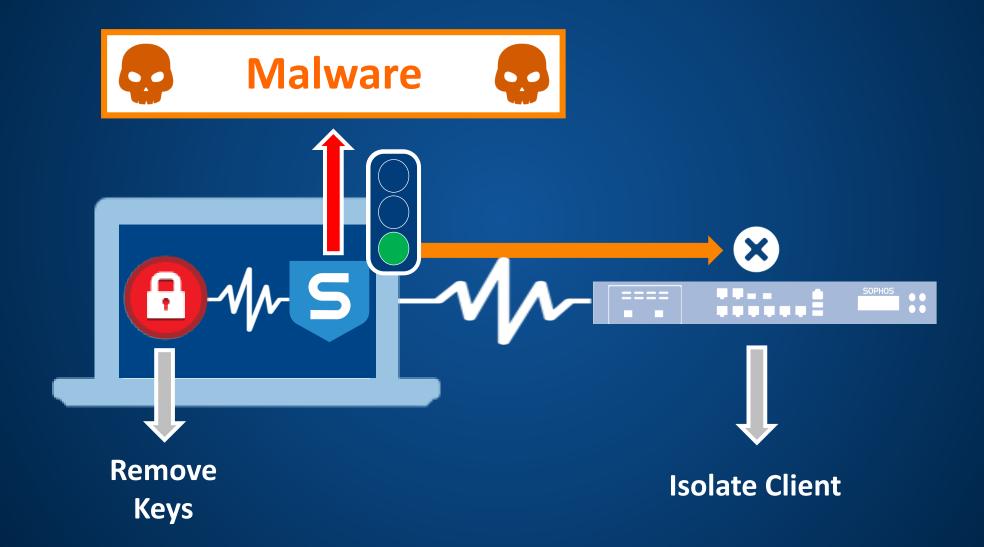
SafeGuard Enterprise – Encryption everywhere



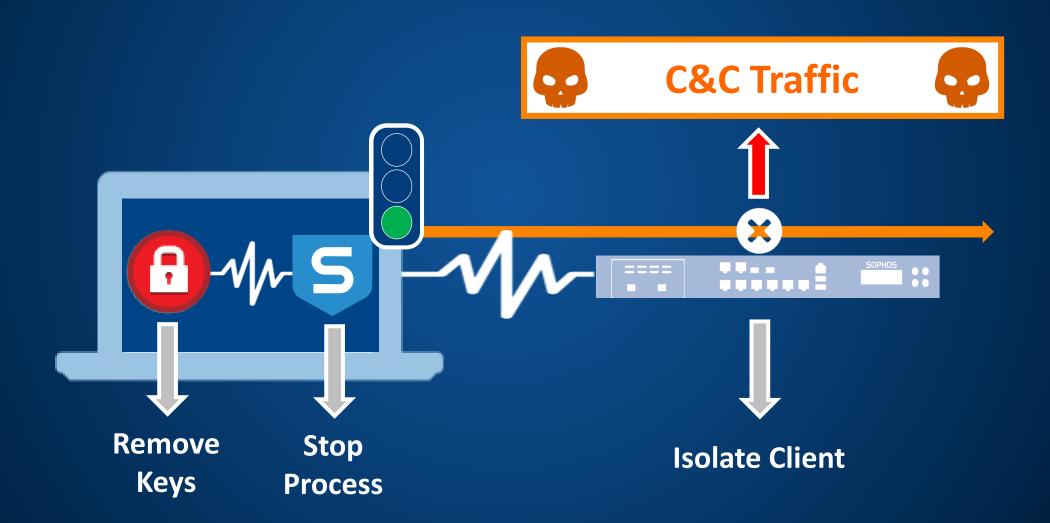


Synchronized Security Scenarios

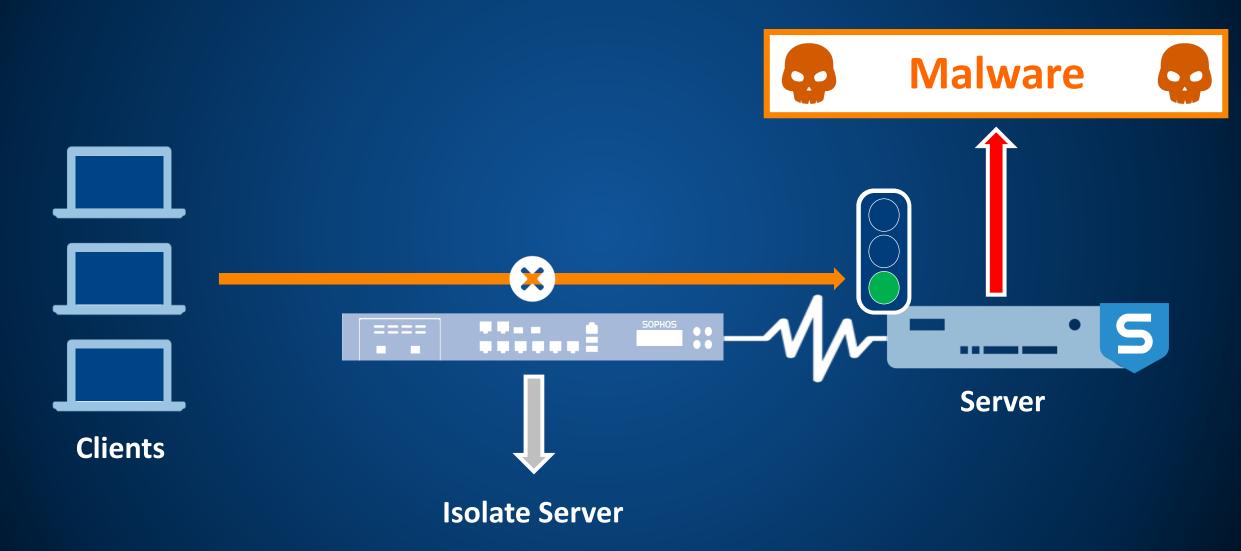
Security Heartbeat – Malware Detection



Security Heartbeat – Botnet C&C-Traffic Detection



Security Heartbeat – Server Heartbeat

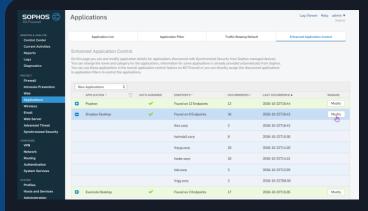


Synchronized App Control

A breakthrough in network visibility and control

What Firewalls See Today

All firewalls today depend on static application signatures to identify apps. But those don't work for most custom, obscure, evasive, or any apps using generic HTTP or HTTPS. You can't control what you can't see.



What XG Firewall Sees

XG Firewall utilizes Synchronized Security to automatically identify, classify, and control all unknown applications. Easily blocking the apps you don't want and prioritizing the ones you do.



Synchronized App Control -A breakthrough in application visibility and control















































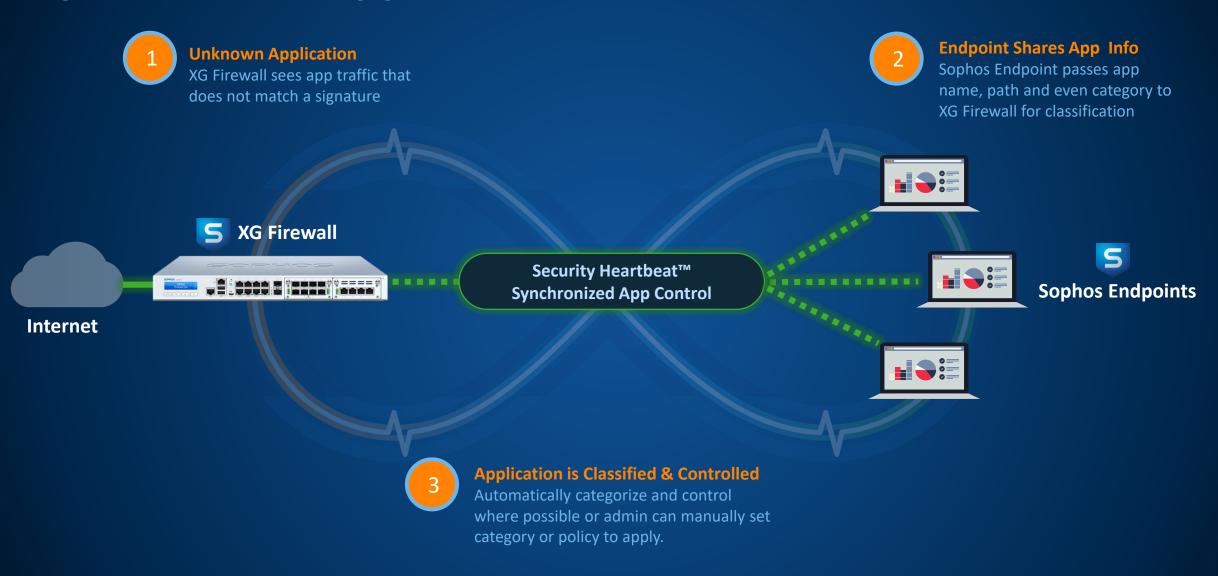








Synchronized App Control in Action



Synchronized Security Benefits



Unparalleled Protection



Automated Incident Response



Real-time Insight and Control

Best-of-breed products packed with next-gen technology actively work together to detect and prevent advanced attacks like ransomware and botnets.

Security information is shared and acted on automatically across the system, isolating infected endpoints before the threat can spread and slashing incident response time by 99.9%.

See - and control - what's happening in real-time for simpler, better IT security management.

Free Tools

SOPHOS

Free Tools

Sophos gives out free tools that check for security risk, remove viruses and protect home networks



Sophos Home



Mobile Security for iOS



XG Firewall Home Edition



Antivirus for Linux



Free 30-day trial of HitmanPro and HitmanPro.Alert



Mobile Security for Android



UTM Home Edition

SOPHOS Security made simple.