Reference Card for Retail

Retailers are being hit hard by cyber attackers who see them as a goldmine of vast amounts of sensitive customer information in their databases. Retail businesses, regardless of size, are facing IT security challenges in the form of ransomware attacks, data loss, insider threats, DDoS attacks and more. No other vertical sees brand equity, customer retention, and business continuity more dependent on cybersecurity than retail does. With next-gen cybersecurity solutions, Sophos helps retailers to achieve all these goals in one fell swoop.

SECURITY CHALLENGE	SOPHOS PRODUCT	HOW IT HELPS
Loss of stored confidential data such as credit card information, employee information, and more	**Sophos XG Firewall and SG UTM** **Sophos Endpoint and Server Protection products**	Data Leakage Prevention (DLP) capabilities in Sophos products can detect credit or debit card numbers and can prevent leaks of credit and debit card details via email, uploads, and local copying.
	Sophos Email Appliance **Sophos XG Firewall and SG UTM**	Leverages Sophos SPX encryption to dynamically encapsulate email content and attachments into a secure encrypted PDF.
	Sophos SafeGuard Encryption **Sophos Central Device Encryption**	Encrypts data on Macs, Windows, and mobile devices. Device Encryption provides centrally-managed, full disk encryption using Windows BitLocker and Mac FileVault. Sophos application-based (synchronized) encryption is automatic and always on – content is encrypted as soon as it is created, and it stays encrypted even when shared or uploaded to a cloud-based file-sharing system or removable devices. Role-based management is available to separate authorization levels, and your encryption policies, keys, and self-service key recovery can be centrally managed. For more information visit PCI DSS compliance.
	Sophos Mobile	Sophos Secure Workspace secures work documents with AES-256 encryption, allowing a secure way to manage, distribute, and edit business documents and view web content on mobile devices. Flexible compliance rules monitor device health and can automatically deny access to sensitive data in case of a compromised device. Emails and documents can be stored in the secure and encrypted Sophos Container and accessed with the Sophos Secure Email and Sophos Secure Workspace apps.

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Loss of sensitive data in transit	Sophos SafeGuard Encryption	Encrypts information at rest and in transit on Macs, Windows, and mobile devices. Manages BitLocker and FileVault full disk encryption as well as always-on file encryption for information stored on hard disks, USB sticks, cloud storage, file shares, memory cards, and CDs/DVDs. All encrypted data remains encrypted as files move across the network.
	Sophos Wireless Sophos XG Firewall and SG UTM	Creates dynamic encrypted Wi-Fi sessions, protecting information in transit on Sophos-managed networks and hotspots.
	Sophos XG Firewall and SG UTM	Allows for policy-based encryption for VPN tunnels, protecting information in transit.
	Sophos Email Appliance Sophos XG Firewall and SG UTM	Sophos SPX encryption provides encryption in transit and at rest. SPX encryption is able to dynamically encapsulate email content and attachments into a secure encrypted PDF to ensure compliance.
Retail Data Center Security	Sophos XG Firewall	Sophos FastPath packet optimization technology ensures you'll always get maximum throughput. Advanced next-gen IPS protects your retail network from DDoS attacks by providing the ultimate network exploit prevention, protection, and performance.
	Sophos Intercept X for Server	Protects your data and applications, whether on physical servers, virtual servers, or in the cloud. Leverages cutting-edge protection, including deep learning malware detection, exploit prevention, and technologies designed to stop ransomware and boot record attacks.
Wireless security	Sophos Wireless	Secures the growing number of mobile devices in retail environment with granular visibility into the health of your wireless networks. Identify potential threats to your retail network and prevent infiltration attempts via Wi-Fi. With Synchronized Security, monitor the health status of Sophos Central-managed endpoint or mobile devices and automatically restrict web access on non-trusted Wi-Fi networks.
Stop attackers moving through your POS network at will	Sophos XG Firewall	Prevents attackers from moving through your POS networks and compromising POS machines. Segments your network so you can strengthen your network security, creating separate levels of trust on your network, making lateral movement difficult.

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Achieve business continuity through performance and reliability	Sophos XG Firewall and SG UTM	High availability with active-active load balancing or active-passive fail-over and WAN link balancing lets you easily double your performance when you need it.
Secure branch offices, retail locations, remote outposts	Sophos XG Firewall and SG UTM	Allows policies and security measures to protect information being accessed, processed, or stored at teleworking sites by facilitating two-factor authentication for VPN connections, with granular RADIUS/ TACACS integration. Sophos SD-RED [SD-WAN Remote Ethernet Devices] extends a secure network to a remote location easily by establishing a secure, dedicated VPN tunnel.
Faster incident response	Synchronized Security, featured in Sophos products	Allows next-generation endpoint and network security to continuously share meaningful information about suspicious events across the extended retail IT ecosystem; detects compromised / unauthorized endpoint devices; allows automated and near-instantaneous isolation of compromised endpoints, preventing such endpoints from leaking confidential data to a C2 server; drastically improves incident response time.
Malicious insider activity	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
	Sophos XG Firewall and SG UTM	Controls remote access authentication and user monitoring for remote access and logs all access attempts. Get user and app risk analysis reports, such as our unique User Threat Quotient or App Risk Score to identify high risk users and apps respectively.
	Sophos SafeGuard Encryption	Provides detailed logging of all access attempts.
	Sophos Mobile	Creates detailed log events of all malicious activity on managed mobile and traditional endpoints, helping to identify suspicious activity that may try to access sensitive data.

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Ransomware and other malware attacks	Sophos Intercept X and Sophos Intercept X for Server	Anti-exploit, anti-ransomware, and deep learning malware detection protect endpoints from malicious executable code. Integrates innovative technology like deep learning, anti-exploit, and anti-adversary technology into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease.
	Sophos Email Appliance	Uses real-time threat intelligence to detect and block unwanted email at the gateway. Our anti-spam engine catches the rest, including the latest phishing attacks, malicious attachments, and snowshoe spam.
	Sophos XG Firewall	Includes IPS, APT, antivirus, sandboxing with deep learning, and web protection to monitor and block malicious, anomalous, and exploitive traffic from inbound or outbound access. Sophos Sandstorm, our optional cloud-sandbox technology, inspects and blocks executables and documents containing executable content before the file is delivered to the user's device.
	Sophos Endpoint Protection	Anti-malware file scanning, Live Protection, pre-execution behavior analysis, malicious traffic detection, ransomware file protection, disk and boot record protection, and automated malware removal keep your end user devices secure against advanced malware.
	Sophos Mobile	Delivers Unified Endpoint Management (UEM) and security management for traditional and mobile endpoints, helping ensure sensitive data is safe, devices are protected, and users are secure. Sophos Mobile Security provides Mobile Threat Defense for Android and iOS devices, including app, network, and device protection; and leading anti-malware and anti-ransomware protection powered by deep learning for Android devices.

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