















# Reference Card for Finance and Banking



The finance and banking sector needs a different approach to data security that involves multi-layer defenses, enhanced visibility, and better synchronization to protect against advanced cyber threats. Sophos offers a range of next-gen security solutions that help banking and finance institutes maintain trust and confidence in financial transactions, safeguard PII, meet the challenging regulatory compliance requirements of SOX, GDPR, CIS CSC, and more.

SECURITY CHALLENGE	SOPHOS SOLUTION	HOW IT HELPS
Mitigating risk of unauthorized disclosure by protecting data at rest	 <b>Sophos XG Firewall and SG UTM</b>  <b>Sophos Intercept X Advanced</b>	Data Leakage Prevention (DLP) capabilities in Sophos products can detect sensitive financial information and prevent leaks via email, uploads, and local copying.
	 <b>Sophos Email Appliance</b>  <b>Sophos XG Firewall and SG UTM</b>	Prevent messages containing sensitive data from leaving the organization with data loss prevention rules providing policy driven 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.
	 <b>Sophos Intercept X</b> <b>Sophos Intercept X for Server</b>	HIPS, deep learning, anti-exploit, anti-adversary, and malicious traffic detection combine to proactively detect malicious behaviors occurring on the host.
	 <b>Sophos Mobile</b>	Sophos Secure Workspace secures work documents with AES-256 encryption, allowing a safe 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 the event 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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SECURITY CHALLENGE	SOPHOS SOLUTION	HOW IT HELPS
	<ul style="list-style-type: none"> <li> <b>Sophos SafeGuard Encryption</b></li> <li> <b>Sophos Central Device Encryption</b></li> </ul>	<p>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 (i.e. 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.</p>
<p>Protecting business-critical data in transit across public or private data networks</p>	<ul style="list-style-type: none"> <li> <b>Sophos SafeGuard Encryption</b></li> </ul>	<p>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.</p>
	<ul style="list-style-type: none"> <li> <b>Sophos Wireless</b></li> <li> <b>Sophos XG Firewall and SG UTM</b></li> </ul>	<p>Creates dynamic encrypted Wi-Fi sessions, protecting information in transit on Sophos managed networks and hotspots.</p>
	<ul style="list-style-type: none"> <li> <b>Sophos XG Firewall and SG UTM</b></li> </ul>	<p>Allows for policy-based encryption for VPN tunnels, protecting information in transit.</p>
	<ul style="list-style-type: none"> <li> <b>Sophos Email Appliance</b></li> <li> <b>Sophos XG Firewall and SG UTM</b></li> </ul>	<p>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.</p> <p>For more information visit <a href="#">SOX Compliance</a>.</p>





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Identify and authenticate access to system components	 <b>Sophos XG Firewall and SG UTM</b>	User awareness across all areas of our firewall governs all firewall policies and reporting, enabling next-gen control over applications, web surfing, bandwidth quotas, and other network resources by user/group. Sophos XG Firewall with Security Heartbeat™ allows next-generation endpoint and network security to continuously share meaningful information about suspicious events across extended IT ecosystem; detects compromised/unauthorized endpoint device; allows automated and nearly instantaneous isolation of this endpoint, preventing it from leaking confidential data.
	 <b>Sophos SafeGuard Encryption</b>	Authenticates users for access to specific protected devices, files, and/or folders with the use of user- or group-specific keys. Supports multi-factor authentication, tokens, and smart cards for user authentication.
	 <b>Sophos Central</b>	Protects privileged and administrator accounts with advanced two-factor authentication. Keeps access lists and user privileges information up to date. Provides procedures to ensure that access rights are revoked if individuals no longer meet the conditions to receive access (e.g., because they change position or leave the company).
	 <b>Sophos Mobile</b>	Sophos Secure Email and Sophos Secure Workspace in Sophos Mobile store content on mobile devices securely with AES-256 encryption. Access to the content in the apps can be restricted based on device health, compliance rules, time, Wi-Fi, or geo-location.








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Secure mobile devices both inside and outside the network perimeter	 <b>Sophos Mobile</b>	Provides enterprise mobility and security management capabilities for traditional and mobile endpoints, including security and device policies. 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. The Sophos Secure Workspace app secures sensitive data with AES-256 encryption, allowing a safe way to manage, distribute, and edit documents and view web content on mobile devices.
	 <b>Sophos SafeGuard Encryption</b>	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 data encrypted remains encrypted as files move across the network.
Extending network security to branch offices	 <b>Sophos XG Firewall and SG UTM</b>	Facilitates 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.
Wireless Security	 <b>Sophos Wireless</b>	Secures the growing number of mobile devices in banking and finance organizations with granular visibility into the health of your wireless networks. Identify potential threats to your 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.
Protection against threats posed by risky insider activity	 <b>All Sophos products</b>	Sophos' user-identity based policy technology allows organizations to enforce role-based user-level controls over network resources and other organization's assets.







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	 <b>Sophos SafeGuard Encryption</b>	<p>Authenticates users for access to specific protected devices, files, and/or folders with the use of user- or group-specific keys. Supports multifactor authentication, tokens, and smart cards for user authentication.</p>
	 <b>Sophos Central</b>	<p>Protects privileged and administrator accounts with advanced two factor authentication. Keeps access lists and user privileges information up to date. Provides procedures to ensure that access rights are revoked if individuals no longer meet the conditions to receive access [e.g., because they change position or leave the company].</p>
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Protecting network integrity with network segregation and segmentation	 <b>Sophos XG Firewall and SG UTM</b>	Enables role-based administration for delegating secure network security management; blocks traffic, services, ports, and protocols except those explicitly allowed and defined as appropriate and necessary for the organization.
	 <b>Sophos Mobile</b>	Integration with Sophos UTM, Sophos Wireless access points, and other UTM provides integrated and consistent security and compliance enforcement for mobile devices accessing the network and other services.
	 <b>Sophos Intercept X, Sophos Intercept X for Server</b>	HIPS, deep learning, anti-exploit, anti-adversary, and malicious traffic detection combine to proactively detect malicious behaviors occurring on the host.
Ransomware and other advanced malware attacks	 <b>Sophos Intercept X, Sophos Intercept X for Server</b>	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary capabilities into malicious traffic detection with real time threat intelligence to help prevent, detect, and remediate threats with ease.
	 <b>Sophos Email Appliance</b>	Uses real-time threat intelligence to detect and block unwanted email at the gateway, and our anti-spam engine catches the rest – including the latest phishing attacks, malicious attachments, and snowshoe spam.
	 <b>Sophos XG Firewall</b>	Includes IPS, APT, antivirus, sandboxing with deep learning, and web protection to monitor and block malicious, anomalous, and exploitive traffic from in-bound or out-bound access. Sophos Sandstorm, optional cloud-sandbox technology, inspects and blocks executables and documents containing executable content before the file is delivered to the user's device.
	 <b>Sophos Mobile</b>	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. Leading anti-malware and anti-ransomware protection powered by deep learning for Android devices.

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	 <b>Synchronized Security feature in Sophos products</b>	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
Protection against phishing attacks	 <b>Sophos Email Appliance</b>	<b>Pre-Delivery:</b> Uses real-time threat intelligence to detect and block unwanted email at the gateway, and our anti-spam engine catches the rest – including the latest phishing attacks, malicious attachments, and snowshoe spam.
	 <b>Sophos Intercept X</b>	<b>Post Delivery:</b> If employees click on a malicious link, root cause analysis tells you which files, processes, and registry keys were hit by malware; Synchronized Security automatically isolates infected endpoints; and Sophos Clean clears up malware.
	 <b>Sophos Phish Threat</b>	Sophos Phish Threat provides simulated phishing cyberattacks and security awareness training for the organizations end users. Courses cover a wide range of topics from phishing and cybersecurity overview lessons through to IT training and compliance topics, malware and mobile device risks, password protection, and more.
Business continuity and disaster recovery planning	 <b>Sophos XG Firewall and SG UTM</b>	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.
	 <b>Sophos Email</b>	In the event of third-party cloud email service provider outages, alerts are provided if mail can't be delivered to a server/service. Email is then queued for delivery to ensures no email is lost, and access to that queued email is provided from a 24/7 emergency inbox inside the end user portal. Retry period for queued email is 5 days.

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	 <b>Synchronized Security feature in Sophos products</b>	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls. The Security Heartbeat also shares this information with Sophos Encryption, which revokes the encryption keys on the affected machine until the problem is fixed to prevent any data theft. After the systems have been automatically returned to their initial, clean state, the XG Firewall restores network access to the device, the encryption keys are returned, and your network is botnet-free.
	 <b>Sophos Intercept X, Intercept X for Server</b>	Includes rollback to original files after a ransomware or master boot record attack, along with Sophos Clean which provides forensic-level remediation by eradicating malicious code as well as eliminating nasty registry key changes created by malware as well.
Audit Trails	 <b>All Sophos products</b>	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
	 <b>Sophos XG Firewall and SG UTM</b>	iView Reporting provides intelligent, centralized reporting and analytics across multiple firewalls or sites; easy monitoring and analysis of security risks across entire network; convenient backup and long-term storage for security information.

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