NIST Cybersecurity Framework (Version 1.1)

SOPHOS

The U.S. Commerce Department's National Institute of Standards and Technology (NIST) has released version 1.1 of its popular Framework for Improving Critical Infrastructure Cybersecurity, more widely known as the Cybersecurity Framework. The framework consists of standards, guidelines, and best practices to manage cybersecurity-related risk. It was developed with a focus on industries vital to national and economic security, including energy, banking, communications, and the defense industrial base. It has since proven flexible enough to be adopted voluntarily by large and small companies and organizations across all industry sectors, as well as by federal, state, and local governments.

CATEGORY	SUBCATEGORY	SOPHOS SOLUTION	HOW IT HELPS
IDENTIFY (ID)			
Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	**ID.AM-2:** Software platforms and applications within the organization are inventoried.	**Sophos XG Firewall** **Sophos SG UTM**	Visibility and control over thousands of applications via customizable policy templates with granular controls based on category, risk, technology, or other undesirable characteristics (P2P apps, IMs, games, and other harmful software); fully automated application security with pre-defined policy templates for commonly used enterprise applications / software packages; Synchronized Application Control in XG Firewall identifies all networked applications in the environment running on Sophos Managed Endpoints. View a full list of controlled software / applications.
		Sophos Intercept X for Server with EDR	Get detailed multi-cloud inventory. Detect your cloud workloads as well as critical cloud services like S3 buckets, databases, and serverless functions
	ID.AM-6: Cybersecurity roles and responsibilities for the entire workforce and third-party stakeholders (e.g., suppliers,	**All Sophos products**	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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CATEGORY	CUSTOMERS,	ALL SOPHOS	SOPHOS' USER-IDENTITY BASED POLICY TECHNOLOGY
Governance (ID.GV): The policies, procedures, and processes to manage and monitor the organization's regulatory, legal, risk, environmental, and operational requirements are understood and inform the management of cybersecurity risk.	**ID.GV-3**: Legal and regulatory requirements regarding cybersecurity, including privacy and civil liberties obligations, are understood and managed.	**Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server**	Data loss prevention policies prevent misuse and distribution of predefined data sets.
		Sophos Email **Sophos XG Firewall** **Sophos SG UTM**	SPX encryption dynamically encapsulates email content and attachments into a secure encrypted PDF to help support compliance.
		Sophos SafeGuard Encryption	Complete data protection solution that is effective across multiple platforms and devices, including mobile and traditional endpoints. Protect data at rest with full disk encryption. Location-based file encryption protects data in motion and follows the file wherever it may go – for example, via email, uploaded to cloud storage, or copied to removable devices. Application-based (synchronized) encryption encrypts data by default as soon as it is created.
		Sophos Mobile	Delivers mobile data protection when integrated with Sophos SafeGuard Enterprise encryption to enable seamless access to encrypted content on mobile devices. The secure Sophos Container for email, documents, and content makes sure that protected data stays separate and can be locked down or wiped.

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	ID.GV-4: Governance and risk management processes address cybersecurity risks.	Sophos Mobile	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.
		Sophos XG Firewall Sophos 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.
		Synchronized Security feature in Sophos Products	Enables discovery of unknown cyber risks through identification of all network traffic.
		Sophos SafeGuard Encryption	Supports risk management by authenticating users for access to specific files/folders with the use of user- or group-specific encryption keys.

PROTECT (PR)

CATEGORY	SUBCATEGORY	SOPHOS SOLUTION	HOW IT HELPS
Identity Management, Authentication, and Access Control (PR.AC): Access to physical and logical assets and associated facilities is limited to authorized users, processes, and devices, and is managed consistent with the assessed risk of unauthorized access to authorized activities and transactions.	PR.AC-1: Identities and credentials are issued, managed, verified, revoked, and audited for authorized devices, users and processes.	Sophos XG Firewall Sophos SG UTM	User awareness across all areas of our firewall governs all firewall polices 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 near instantaneous isolation of this endpoint, preventing it from leaking confidential data.
		Sophos SafeGuard Encryption	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.

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		Sophos Central	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).
		Sophos Mobile	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.
	PR.AC-3: Remote access is managed.	Sophos Mobile	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 secure way to manage, distribute, and edit documents and view web content on mobile devices.
		Sophos XG Firewall Sophos SG UTM	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.
		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 data encrypted remains encrypted as files move across the network.

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	PR.AC-4: Access permissions and authorizations are managed, incorporating the principles of least privilege and separation of duties.	✉ Sophos Email ▦ Sophos XG Firewall ⬡ Sophos 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.
		▦ Sophos XG Firewall ⬡ Sophos SG UTM	User awareness across all areas of our firewall governs all firewall polices and reporting, enabling next-gen control over applications, web surfing, bandwidth quotas, and other network resources by user/group.
		◉ Sophos SafeGuard Encryption	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.
		⚛ Sophos Central	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).
		▢ Sophos Mobile	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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	PR.AC-5: Network integrity is protected (e.g., network segregation, network Segmentation).	Sophos XG Firewall Sophos SG UTM	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.
		Sophos Mobile	Integration with Sophos UTM, Sophos Wireless access points, and other UTMs provides integrated and consistent security and compliance enforcement for mobile devices accessing the network and other services.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease.
	PR.AC.7: Users, devices, and other assets are authenticated (e.g., single-factor, multi-factor) commensurate with the risk of the transaction (e.g.,individuals' security and privacy risks and other organizational risks).	Sophos Enterprise Console and Sophos Central	Configurable role-based administration provides granular control of administrator privileges.
		Sophos Mobile	Role-based administration assures user privacy and appropriate credentials for altering compliance or device/data access.
		Sophos Cloud Optix	AI-powered monitoring instantly identifies suspicious console login events, API calls, and assumed-role API calls that suggest shared or stolen user credentials are being used by an attacker remotely to gain unauthorized access.

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Awareness and Training (PR.AT): The organization's personnel and partners are provided cybersecurity awareness education and are trained to perform their cybersecurity-related duties and responsibilities consistent with related policies, procedures, and agreements.	**PR.AT-1**: All users are informed and trained.	**Sophos Training and Certifications**	Training courses and certifications to help partners and customers get the best out of Sophos security deployments; access to latest know-how and expertise for security best practices.
		Sophos Phish Threat	Sophos Phish Threat provides simulated phishing cyber-attacks 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.
Data Security (PR.DS): Information and records (data) are managed consistent with the organization's risk strategy to protect the confidentiality, integrity, and availability of information.	**PR.DS-1**: Data-at-rest is protected.	**Sophos XG Firewall** **Sophos SG UTM** **Sophos Intercept X** **Sophos Intercept X Advanced with EDR** **Sophos Intercept X for Server**	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 **Sophos XG Firewall** **Sophos SG UTM**	Leverages Sophos SPX encryption to dynamically encapsulate email content and attachments into a secure encrypted PDF.
		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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		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, 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.
	PR.DS-2: Data-in-transit is protected.	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 Sophos SG UTM	Creates dynamic encrypted Wi-Fi sessions, protecting information in transit on Sophos managed networks and hotspots.
		Sophos XG Firewall Sophos SG UTM	Allows for policy-based encryption for VPN tunnels, protecting information in transit.
		Sophos Email Sophos XG Firewall Sophos 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.

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	PR.DS-4: Adequate capacity to ensure availability is maintained.	Sophos XG Firewall Sophos 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.
	PR.DS-5: Protections against data leaks are implemented.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Data loss prevention policies prevent misuse and distribution of predefined data sets.
		Sophos Managed Threat Response	24/7 monitoring to identify adversarial activities that could lead to data breaches.
		Sophos SafeGuard Encryption	Complete data protection across multiple platforms and devices, including mobile devices; secures data at rest as well as in transit.
		Sophos Mobile	Delivers mobile data protection when integrated with Sophos SafeGuard Encryption to enable access to encrypted content on mobile devices. The secure Sophos Container for email, documents, and content makes sure that protected data stays separated from personal data and can be locked down or wiped.
		Sophos Email Sophos XG Firewall and SG UTM	SPX encryption dynamically encapsulates email content and attachments into a secure encrypted PDF to help ensure compliance.
	PR.DS-6: Integrity checking mechanisms are used to verify software, firmware, and information integrity.	Sophos XG Firewall	Visibility and control over thousands of applications via customizable policy templates with granular controls based on category, risk, technology, or other undesirable characteristics (P2P apps, IMs, games and other harmful software); fully automated application security with pre-defined policy templates for commonly used enterprise applications / software packages; Synchronized Application Control in XG Firewall identifies all networked applications in the environment running on Sophos Managed Endpoints. View a full list of controlled software/applications.

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		Sophos Mobile	Monitor mobile devices for jailbreaking and side-loading of applications Deny access to email, network, and other resources if device is not in compliance with policy.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Endpoint Protection application control policies restrict the use of unauthorized applications.
		Sophos Server Protection	Server Lockdown allows only trusted whitelisted applications and associated files to run.
		Sophos Cloud Optix	Continuously monitors and detects drift in configuration standards, and prevents, detects, and automatically remediates accidental or malicious changes in resource configuration.
Information Protection Processes and Procedures (PR.IP): Security policies (that address purpose, scope, roles, responsibilities, management commitment, and coordination among organizational entities), processes, and procedures are maintained and used to manage protection of information systems and assets.	PR.IP-3: Configuration change control processes are in place.	All Sophos products	All administrative actions are logged and available for reporting and audits.
	PR.IP.7: Protection processes are Improved.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Intercept X continuously looks at reported false positives and false negatives to ensure the product is being continuously improved. It integrates a deep learning malware detection model that can scale to hundreds of millions of training samples and can 'memorize' the entire observable threat landscape as part of its training process. It is regularly trained by our SophosLabs team to stay up to date over time.
		Sophos Managed Threat Response	Allows continuous posture improvement with every hunt, investigation, and response action delivering decision-driving data to enhance configurations and automated detection capabilities.

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	PR.IP-9: Response plans (Incident Response and Business Continuity) and recovery plans (Incident Recovery and Disaster Recovery) are in place and managed.	Sophos Managed Threat Response	An elite team of threat hunters and response experts initiate actions to remotely disrupt, contain, and neutralize threats on your behalf to stop even the most sophisticated threats.
		Sophos Email on Central	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.
	PR.IP-11: Cybersecurity is included in human resources practices (e.g., deprovisioning, personnel screening).	Sophos Central	Keeps access lists and user privileges information up to date. Procedures are in place 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).
Protective Technology (PR.PT): Technical security solutions are managed to ensure the security and resilience of systems and assets, consistent with related policies, procedures, and agreements.	PR.PT-1: Audit/log records are determined, documented, implemented, and reviewed in accordance with policy.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response. All administrative actions are logged and available for reporting and audits.
		Sophos XG Firewall	Controls remote access authentication and user monitoring for remote access, and logs all access attempts.
		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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	PR.PT-2: Removable media is protected and its use restricted according to policy.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Device Control allows admins to control the use of removable media through policy settings.
		Sophos SafeGuard Encryption	Provides complete data protection across multiple platforms and devices, including mobile devices; secures data at rest as well as in transit.
		Sophos Mobile	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.
	PR.PT-4: Communications and control networks are protected.	Sophos Email	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.
		Sophos Mobile	Encrypts documents within a secure container on a mobile device managed with Sophos Mobile. Sophos Secure Workspace can dynamically encrypt content sent to cloud-based storage services and applications. It enforces device encryption and monitors compliance relative to encryption policy.
		Sophos SafeGuard Encryption	Encrypts data on Macs, Windows, and mobile devices. Manages BitLocker and FileVault full disk encryption as well as always-on file encryption 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.
	PR.PT-5: Mechanisms (e.g., failsafe, load balancing, hot swap) are implemented to achieve resilience requirements in normal and adverse situations.	Sophos XG Firewall Sophos 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.

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DETECT (DE)			
Anomalies and Events (DE.AE): Anomalous activity is detected and the potential impact of events is understood.	**DE.AE-2**: Detected events are analyzed to understand attack targets and methods.	**All Sophos products**	Generate security event logs that can be integrated into a centralized
		Sophos Intercept X **Sophos Intercept X Advanced with EDR** **Sophos Intercept X for Server**	Get the root cause analysis of an attack with complete visibility on the how and where of the attack along with recommendations on what your next steps should be.
		Sophos Managed Threat Response	Investigates detections from Sophos-protected endpoints, networks, and cloud platforms on customers' behalf to validate if adversarial activity or an active threat exists. Depending on the customer preference, notification of findings and recommendations are shared or an immediate response to the threat is initiated.
		Sophos Intercept X for Server	Prevents unauthorized applications from running with Server Protection, automatically scanning your system for known good applications, and whitelisting only those applications.
	DE.AE-3: Event data are collected and correlated from multiple sources and sensors.	**All Sophos products**	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos Managed Threat Response	Investigates detections from Sophos-protected endpoints, networks, and cloud platforms on customers' behalf to validate if adversarial activity or an active threat exists. Depending on the customer preference, notification of findings and recommendations are shared or an immediate response to the threat is initiated.

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	DE.AE-4: Impact of events is determined.	Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls-stopping advanced attacks.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Get a root cause analysis of an attack with complete visibility on the how and where of the attack along with recommendations on what your next steps should be.
		Sophos Managed Threat Response	Stops incidents from occurring again by offering actionable advice that addresses the root cause of recurring incidents.
Security Continuous Monitoring (DE.CM): The information system and assets are monitored to identify cybersecurity events and verify the effectiveness of protective measures.	DE.CM-1: The network is monitored to detect potential cybersecurity events.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos Managed Threat Response	Offers 24/7 threat hunting, detection, and response delivered by an expert team as a fully-managed service.
	DE.CM-3: Personnel activity is monitored to detect potential cybersecurity events.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos XG Firewall Sophos SG UTM	Controls remote access authentication and user monitoring for remote access, and logs all access attempts.
		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.
		Sophos Managed Threat Response	24/7 monitoring to identify suspicious or malicious behaviors that could lead to security incidents.may try to access sensitive data.
		Sophos Cloud Optix	AI-powered monitoring instantly identifies suspicious console login events, API calls, and assumed-role API calls that suggest shared or stolen user credentials are being used by an attacker remotely to gain unauthorized access.

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	DE.CM-5: Unauthorized mobile code is Detected.	Sophos XG Firewall	Visibility and control over thousands of applications via customizable policy templates with granular controls based on category, risk, technology, or other undesirable characteristics (P2P apps, IMs, games, and other harmful software); fully automated application security with pre-defined policy templates for commonly used enterprise applications/software packages; Synchronized Application Control in XG Firewall identifies all networked applications in the environment running on Sophos Managed Endpoints. View a full list of controlled software / applications.
		Sophos Mobile	Monitor mobile devices for jailbreaking and side-loading of applications. Deny access to email, network, and other resources if device is not in compliance with policy.
		Sophos Intercept X Advanced with EDR	Endpoint Protection application control policies restrict the use of unauthorized applications.
		Sophos Intercept X for Server	Server Lockdown allows only trusted whitelisted applications and associated files to run.
	DE.CM-7: Monitoring for unauthorized personnel, connections, devices, and software is performed.	All Sophos products	Generates security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos Managed Threat Response	24/7 monitoring to identify suspicious or malicious behaviors that could lead to security incidents.
		Sophos XG Firewall	Controls remote access authentication and user monitoring for remote access, and logs all access attempts.
		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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Detection Processes (DE.DP): Detection processes and procedures are maintained and tested to ensure awareness of anomalous events.	**DE.DP-5:** Detection processes are continuously improved.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Intercept X consistently looks at reported false positives and false negatives to ensure the product is being continuously improved. It integrates a deep learning malware detection model that can scale to hundreds of millions of training samples and can 'memorize' the entire observable threat landscape as part of its training process. It is regularly trained by our SophosLabs team to stay up-to-date over time.
		Sophos Managed Threat Response	Performs continuous detection refinement and improvement as well as developing new detection strategies for emergent or potential threats.

RESPOND (RS)

CATEGORY	SUBCATEGORY	SOPHOS SOLUTION	HOW IT HELPS
Response Planning (RS.RP): Response processes and procedures are executed and maintained, to ensure response to detected cybersecurity incidents.	**RS.RP-1:** Response plan is executed during or after an incident.	Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Get a root cause analysis of an attack with complete visibility on the how and where of the attack, along with recommendations on what your next steps should be.
		Sophos Managed Threat Response	Get 24/7 threat hunting, detection, and response delivered by an expert team as a fully-managed service.
Communications (RS.CO): Response activities are coordinated with internal and external stakeholders (e.g. external support from law enforcement agencies).	**RS.CO-2:** Incidents are reported consistent with established criteria.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos Managed Threat Response	Provides human-led response to active threats with direct customer communication via both email and phone.

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	RS.CO-3: Information is shared consistent with response plans.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response.
		Sophos Managed Threat Response	Provides human-led response to active threats with direct customer communication via both email and phone.
Analysis (RS.AN): Analysis is conducted to ensure effective response and support recovery activities.	RS.AN-1: Notifications from detection systems are investigated.	All Sophos products	Generate security event logs that can be integrated into a centralized monitoring program for incident detection and response. All administrative actions are logged and available for reporting and audits.
		Sophos Managed Threat Response	Monitors and investigates detections from Sophos endpoint, network, and cloud platform solutions to identify, investigate, contain, and neutralize active threats.
		Sophos XG Firewall Sophos SG UTM	Controls remote access authentication and user monitoring for remote access and logs all access attempts.
		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.
		Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Get a root cause analysis of an attack with complete visibility on the how and where of the attack along with recommendations on what your next steps should be.

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	RS.AN-3: Forensics are Performed.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Get a root cause analysis of an attack with complete visibility on the how and where of the attack, along with recommendations on what your next steps should be.
		Sophos Managed Threat Response	Where applicable, Sophos MTR performs thorough investigations of detections, telemetry, and other datasets (observables) to derive indicators for use in threat hunts and targeted response actions.
	RS.AN-5: Processes are established to receive, analyze, and respond to vulnerabilities disclosed to the organization from internal and external sources (e.g. internal testing, security bulletins, or security researchers).	Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Managed Threat Response	Leverages intelligence from a wide range of first, second, or third-party sources to identify potential threats to or within customer environments.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Get a root cause analysis of an attack with complete visibility on the how and where of the attack along with recommendations on what your next steps should be.
		SophosLabs	Get the global threat intelligence advantage with our state-of-the-art big data analytics system that efficiently processes millions of emails, URLs, files, and other data points analyzed each day. This data, along with our extensive experience, enables us to develop new definitions, detect entire classes of threats, and even new variants. And, with Live Protection and Live Anti-spam, you benefit from all our data and expert analysis from SophosLabs in real time.

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Mitigation (RS.MI): Activities are performed to prevent expansion of an event, mitigate its effects, and resolve the incident.	**RS.MI-1:** Incidents are contained.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Anti-exploit, anti-ransomware, and deep learning malware detection protect endpoints from malicious executable code.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease.
		Sophos Email	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.
		Sophos XG Firewall	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.
		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. Leading anti-malware and anti-ransomware protection powered by deep learning for Android devices.
		Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Managed Threat Response	Proactive 24/7 threat hunting by elite team of threat analysts initiates actions to remotely disrupt, contain, and neutralize threats on your behalf to stop even the most sophisticated threats.

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	RS.MI-2: Incidents are mitigated.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Anti-exploit, anti-ransomware, and deep learning malware detection protect endpoints from malicious executable code.
		Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Integrates innovative technology like deep learning, anti-exploit, and anti-adversary into malicious traffic detection with real-time threat intelligence to help prevent, detect, and remediate threats with ease.
		Sophos Email	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.
		Sophos XG Firewall	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.
		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. Leading anti-malware and anti-ransomware protection powered by deep learning for Android devices.
		Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Managed Threat Response	Shares proactive security posture improvement recommendations with customers adhoc and during health checks.

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	RS.MI-3: Newly identified vulnerabilities are mitigated or documented as accepted risks.	Synchronized Security feature in Sophos products	Shares telemetry and health status, enabling coordinated isolation, detection, and malware remediation across servers, endpoints, and firewalls – stopping advanced attacks.
		Sophos Managed Threat Response	Incorporates vulnerability intelligence to provide customers with proactive security posture improvements.
		SophosLabs	Sophos' state-of-the-art big data analytics system efficiently processes millions of emails, URLs, files, and other data points analyzed each day. This data, along with our extensive experience, enables us to develop new definitions, detect entire classes of threats, and even new variants. And, with Live Protection and Live Anti-spam, you benefit from all our data and expert analysis from SophosLabs in real time.
Improvements (RS.IM): Organizational response activities are improved by incorporating lessons learned from current and previous detection/response activities	RS.IM-1: Response plans incorporate lessons learned.	Sophos Intercept X Sophos Intercept X Advanced with EDR Sophos Intercept X for Server	Intercept X continuously looks at reported false positives and false negatives to ensure the product is being continuously improved. It integrates a deep learning malware detection model that can scale to hundreds of millions of training samples and can 'memorize' the entire observable threat landscape as part of its training process. It is regularly trained by our SophosLabs team to stay up-to-date over time.
		Sophos Managed Threat Response	Allows continuous posture improvement with every hunt, investigation, and response action delivering decision-driving data to enhance configurations and automated detection capabilities.

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	RS.IM-2: Response strategies are updated.	✖ Sophos Intercept X ✖ Sophos Intercept X Advanced with EDR ⊕ Sophos Intercept X for Server	Intercept X consistently looks at reported false positives and false negatives to ensure the product is being continuously improved. It integrates a deep learning malware detection model that can scale to hundreds of millions of training samples and can 'memorize' the entire observable threat landscape as part of its training process. It is regularly trained by our SophosLabs team to stay up-to-date over time.
		⊕ Sophos Managed Threat Response	Continuously refines and improves response strategies and capabilities as part of our ongoing service.

RECOVER (RC)

CATEGORY	SUBCATEGORY	SOPHOS SOLUTION	HOW IT HELPS
Recovery Planning (RC.RP): Recovery processes and procedures are executed and maintained to ensure restoration of systems or assets affected by cybersecurity incidents.	RC.RP-1: Recovery plan is executed during or after a cybersecurity incident.	◠ Synchronized Security feature in Sophos products	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.
		✖ Sophos Intercept X ✖ Sophos Intercept X Advanced with EDR ⊕ Sophos Intercept X for Server	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.

SOPHOS