

# **Information Security Policy**

**Seagate Controls Systems, Inc.**

**Last updated: 12/4/2019**

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## 1. Introduction

This Policy Document encompasses all aspects of security surrounding confidential company information and must be distributed to all company employees. All company employees must read this document in its entirety and sign the form confirming they have read and understand this policy fully. This document will be reviewed and updated by Management on an annual basis or when relevant to include newly developed security standards into the policy and distribute it all employees and contracts as applicable.

## 2. Information Security Policy

Seagate Control Systems, Inc. handles sensitive cardholder information daily. Sensitive Information must have adequate safeguards in place to protect them, to protect cardholder privacy, to ensure compliance with various regulations and to guard the future of the organisation.

Seagate Control Systems, Inc. commits to respecting the privacy of all its customers and to protecting any data about customers from outside parties. To this end management are committed to maintaining a secure environment in which to process cardholder information so that we can meet these promises.

Employees handling Sensitive cardholder data should ensure:

- Handle Company and cardholder information in a manner that fits with their sensitivity;
- Limit personal use of Seagate Control Systems, Inc. information and telecommunication systems and ensure it doesn't interfere with your job performance;
- Seagate Control Systems, Inc. reserves the right to monitor, access, review, audit, copy, store, or delete any electronic communications, equipment, systems and network traffic for any purpose;
- Do not use e-mail, internet and other Company resources to engage in any action that is offensive, threatening, discriminatory, defamatory, slanderous, pornographic, obscene, harassing or illegal;
- Do not disclose personnel information unless authorised;
- Protect sensitive cardholder information;
- Keep passwords and accounts secure;
- Request approval from management prior to establishing any new software or hardware, third party connections, etc.;
- Do not install unauthorised software or hardware, including modems and wireless access unless you have explicit management approval;
- Always leave desks clear of sensitive cardholder data and lock computer screens when unattended;
- Information security incidents must be reported, without delay, to the individual responsible for incident response locally – Please find out who this is.

We each have a responsibility for ensuring our company's systems and data are protected from unauthorised access and improper use. If you are unclear about any of the policies detailed herein you should seek advice and guidance from your line manager.

### 3. Acceptable Use Policy

The Management's intentions for publishing an Acceptable Use Policy are not to impose restrictions that are contrary to Seagate Control Systems, Inc.'s established culture of openness, trust and integrity. Management is committed to protecting the employees, partners and Seagate Control Systems, Inc. from illegal or damaging actions by individuals, either knowingly or unknowingly. Seagate Control Systems, Inc. will maintain an approved list of technologies and devices and personnel with access to such devices as detailed in Appendix B.

- Employees are responsible for exercising good judgment regarding the reasonableness of personal use.
- Employees should ensure that they have appropriate credentials and are authenticated for the use of technologies
- Employees should take all necessary steps to prevent unauthorized access to confidential data which includes card holder data.
- Employees should ensure that technologies should be used and setup in acceptable network locations
- Keep passwords secure and do not share accounts.
- Authorized users are responsible for the security of their passwords and accounts.
- All PCs, laptops and workstations should be secured with a password-protected screensaver with the automatic activation feature.
- All POS and PIN entry devices should be appropriately protected and secured so they cannot be tampered or altered.
- Because information contained on portable computers is especially vulnerable, special care should be exercised.
- Postings by employees from a Company email address to newsgroups should contain a disclaimer stating that the opinions expressed are strictly their own and not necessarily those of Seagate Control Systems, Inc., unless posting is in the course of business duties.
- Employees must use extreme caution when opening e-mail attachments received from unknown senders, which may contain viruses, e-mail bombs, or Trojan horse code.

### 4. Disciplinary Action

Violation of the standards, policies and procedures presented in this document by an employee will result in disciplinary action, from warnings or reprimands up to and including termination of employment. Claims of ignorance, good intentions or using poor judgment will not be used as excuses for non compliance.

### 5. Protect Stored Data

- All sensitive cardholder data stored and handled by Seagate Control Systems, Inc. and its employees must be securely protected against unauthorized use at all times. Any sensitive card data that is no longer required by Seagate Control Systems, Inc. for business reasons must be discarded in a secure and irrecoverable manner.
- If there is no specific need to see the full PAN (Permanent Account Number), it has to be masked when displayed.
- PAN'S which are not protected as stated above should not be sent to the outside network via end

user messaging technologies like chats, ICQ messenger etc.,

**It is strictly prohibited to store:**

1. The contents of the payment card magnetic stripe (track data) on any media whatsoever.
2. The CVV/CVC (the 3 or 4 digit number on the signature panel on the reverse of the payment card) on any media whatsoever.
3. The PIN or the encrypted PIN Block under any circumstance.

## **6. Information Classification**

Data and media containing data must always be labelled to indicate sensitivity level

- **Confidential data** might include information assets for which there are legal requirements for preventing disclosure or financial penalties for disclosure, or data that would cause severe damage to Seagate Control Systems, Inc. if disclosed or modified. **Confidential data includes cardholder data.**
- **Internal Use data** might include information that the data owner feels should be protected to prevent unauthorized disclosure;
- **Public data** is information that may be freely disseminated.

## **7. Access to the sensitive cardholder data**

All Access to sensitive cardholder should be controlled and authorised. Any Job functions that require access to cardholder data should be clearly defined.

- Any display of the card holder should be restricted at a minimum of the first 6 and the last 4 digits of the cardholder data.
- Access rights to privileged user ID's should be restricted to least privileges necessary to perform job responsibilities
- Privileges should be assigned to individuals based on job classification and function (Role based access control)
- Access to sensitive cardholder information such as PAN's, personal information and business data is restricted to employees that have a legitimate need to view such information.
- No other employees should have access to this confidential data unless they have a genuine business need.
- If cardholder data is shared with a Service Provider (3<sup>rd</sup> party) then a list of such Service Providers will be maintained as detailed in Appendix B.
- Seagate Control Systems, Inc. will ensure a written agreement that includes an acknowledgement is in place that the Service Provider will be responsible for the for the cardholder data that the Service Provider possess.
- Seagate Control Systems, Inc. will ensure that a there is an established process including proper due diligence is in place before engaging with a Service provider.

- Seagate Control Systems, Inc. will have a process in place to monitor the PCI DSS compliance status of the Service provider.

## 8. Physical Security

Access to sensitive information in both hard and soft media format must be physically restricted to prevent unauthorised individuals from obtaining sensitive data.

- Employees are responsible for exercising good judgment regarding the reasonableness of personal use.
- Employees should ensure that they have appropriate credentials and are authenticated for the use of technologies
- Employees should take all necessary steps to prevent unauthorized access to confidential data which includes card holder data.
- Employees should ensure that technologies should be used and setup in acceptable network locations
- A list of devices that accept payment card data should be maintained.
- The list should include make, model and location of the device
- The list should have the serial number or a unique identifier of the device
- The list should be updated when devices are added, removed or relocated
- POS devices surfaces should be periodically inspected to detect tampering or substitution.
- Personnel using the devices should be trained and aware of handling the POS devices
- Personnel using the devices should verify the identity of any third party personnel claiming to repair or run maintenance tasks on the devices, install new devices or replace devices.
- Personnel using the devices should be trained to report suspicious behaviour and indications of tampering of the devices to the appropriate personnel.
- A “visitor” is defined as a vendor, guest of an employee, service personnel, or anyone who needs to enter the premises for a short duration, usually not more than one day.
- Keep passwords secure and do not share accounts. Authorized users are responsible for the security of their passwords and accounts.
- Media is defined as any printed or handwritten paper, received faxes, floppy disks, back-up tapes, computer hard drive, etc.
- Media containing sensitive cardholder information must be handled and distributed in a secure manner by trusted individuals.
- Visitors must always be escorted by a trusted employee when in areas that hold sensitive cardholder information.
- Procedures must be in place to help all personnel easily distinguish between employees and visitors, especially in areas where cardholder data is accessible. “Employee” refers to full-time and part-time employees, temporary employees and personnel, and consultants who are “resident” on Seagate Control Systems, Inc. sites. A “visitor” is defined as a vendor, guest of an employee, service personnel, or anyone who needs to enter the premises for a short duration, usually not more than one day.
- Network Jacks located in public and areas accessible to visitors must be disabled and enabled when network access is explicitly authorised.
- All POS and PIN entry devices should be appropriately protected and secured so they cannot be tampered or altered.

- Strict control is maintained over the external or internal distribution of any media containing card holder data and has to be approved by management
- Strict control is maintained over the storage and accessibility of media
- All computer that store sensitive cardholder data must have a password protected screensaver enabled to prevent unauthorised use.

## 9. Protect Data in Transit

All sensitive cardholder data must be protected securely if it is to be transported physically or electronically.

- Card holder data (PAN, track data etc) must never be sent over the internet via email, instant chat or any other end user technologies.
- If there is a business justification to send cardholder data via email or via the internet or any other modes then it should be done after authorization and by using a strong encryption mechanism (i.e. – AES encryption, PGP encryption, IPSEC, GSM, GPRS, Wireless technologies etc.,).
- The transportation of media containing sensitive cardholder data to another location must be authorised by management, logged and inventoried before leaving the premises. Only secure courier services may be used for the transportation of such media. The status of the shipment should be monitored until it has been delivered to its new location.

## 10. Disposal of Stored Data

- All data must be securely disposed of when no longer required by Seagate Control Systems, Inc., regardless of the media or application type on which it is stored.
- An automatic process must exist to permanently delete on-line data, when no longer required.
- All hard copies of cardholder data must be manually destroyed as when no longer required for valid and justified business reasons. A quarterly process must be in place to confirm that all non-electronic cardholder data has been appropriately disposed of in a timely manner.
- Seagate Control Systems, Inc. will have procedures for the destruction of hardcopy (paper) materials. These will require that all hardcopy materials are crosscut shredded, incinerated or pulped so they cannot be reconstructed.
- Seagate Control Systems, Inc. will have documented procedures for the destruction of electronic media. These will require:
  - All cardholder data on electronic media must be rendered unrecoverable when deleted e.g. through degaussing or electronically wiped using military grade secure deletion processes or the physical destruction of the media;
  - If secure wipe programs are used, the process must define the industry accepted standards followed for secure deletion.
- All cardholder information awaiting destruction must be held in lockable storage containers clearly marked "To Be Shredded" - access to these containers must be restricted.

## 11. Security Awareness and Procedures

The policies and procedures outlined below must be incorporated into company practice to maintain a high level of security awareness. The protection of sensitive data demands regular training of all employees and contractors.

- Review handling procedures for sensitive information and hold periodic security awareness meetings to incorporate these procedures into day to day company practice.
- Distribute this security policy document to all company employees to read. It is required that all employees confirm that they understand the content of this security policy document by signing an acknowledgement form (see Appendix A)
- All employees that handle sensitive information will undergo background checks (such as criminal and credit record checks, within the limits of the local law) before they commence their employment with Seagate Control Systems, Inc..
- All third parties with access to credit card account numbers are contractually obligated to comply with card association security standards (PCI/DSS).
- Company security policies must be reviewed annually and updated as needed.



## 12. Network security

- Firewalls must be implemented at each internet connection and any demilitarized zone and the internal company network.
- A network diagram detailing all the inbound and outbound connections must be maintained and reviewed every 6 months.
- A firewall and router configuration document must be maintained which includes a documented list of services, protocols and ports including a business justification.
- Firewall and router configurations must restrict connections between untrusted networks and any systems in the card holder data environment.
- Stateful Firewall technology must be implemented where the Internet enters Seagate Control Systems, Inc. Card network to mitigate known and on-going threats. Firewalls must also be implemented to protect local network segments and the IT resources that attach to those segments such as the business network, and open network.
- All inbound and outbound traffic must be restricted to that which is required for the card holder data environment.
- All inbound network traffic is blocked by default, unless explicitly allowed and the restrictions have to be documented.
- All outbound traffic has to be authorized by management (i.e. what are the whitelisted category of sites that can be visited by the employees) and the restrictions have to be documented
- Seagate Control Systems, Inc. will have firewalls between any wireless networks and the cardholder data environment.
- Seagate Control Systems, Inc. will quarantine wireless users into a DMZ, where they will be authenticated and firewalled as if they were coming in from the Internet.
- Disclosure of private IP addresses to external entities must be authorized.
- A topology of the firewall environment has to be documented and has to be updated in accordance to the changes in the network.
- The firewall rules will be reviewed on a six months basis to ensure validity and the firewall has to have clean up rule at the bottom of the rule base.
- Seagate Control Systems, Inc. have to quarantine wireless users into a DMZ, where they were authenticated and firewalled as if they were coming in from the Internet.
- No direct connections from Internet to cardholder data environment will be permitted. All traffic has to traverse through a firewall.

Rules	Source IP	Destination IP	Action

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### 13. System and Password Policy

All users, including contractors and vendors with access to Seagate Control Systems, Inc. systems, are responsible for taking the appropriate steps, as outlined below, to select and secure their passwords.

- A system configuration standard must be developed along industry acceptable hardening standards (SANS, NIST, ISO)
- System configurations should be updated as new issues are identified (as defined in PCI DSS requirement 6.1)
- System configurations must include common security parameter settings
- The systems configuration standard should be applied to any new systems configured.
- All vendor default accounts and passwords for the systems have to be changed at the time of provisioning the system/device into Seagate Control Systems, Inc. network and all unnecessary services and user/system accounts have to be disabled.
- All unnecessary default accounts must be removed or disabled before installing a system on the network.
- Security parameter settings must be set appropriately on System components
- All unnecessary functionality (scripts, drivers, features, subsystems, file systems, web servers etc.,) must be removed.
- All unnecessary services, protocols, daemons etc., should be disabled if not in use by the system.
- Any insecure protocols, daemons, services in use must be documented and justified.
- All users with access to card holder data must have a unique ID.
- All user must use a password to access Seagate Control Systems, Inc. network or any other electronic resources
- All user ID's for terminated users must be deactivated or removed immediately.
- The User ID will be locked out if there are more than 5 unsuccessful attempts. This locked account can only be enabled by the system administrator. Locked out user accounts will be disabled for a minimum period of 30 minutes or until the administrator enables the account.
- All system and user level passwords must be changed on at least a quarterly basis.
- A minimum password history of four must be implemented.
- A unique password must be setup for new users and the users prompted to change the password on first login.
- Group, shared or generic user account or password or other authentication methods must not be used to administer any system components.
- Where SNMP is used, the community strings must be defined as something other than the Standard defaults of "public," "private" and "system" and must be different from the passwords used to log in interactively.
- All non-console administrative access will use appropriate technologies like ssh, vpn etc or strong encryption is invoked before the administrator password is requested
- System services and parameters will be configured to prevent the use of insecure technologies like telnet and other insecure remote login commands
- Administrator access to web based management interfaces is encrypted using strong cryptography.

- The responsibility of selecting a password that is hard to guess generally falls to users. A strong password must:
  - a) Be as long as possible (never shorter than 6 characters).
  - b) Include mixed-case letters, if possible.
  - c) Include digits and punctuation marks, if possible.
  - d) Not be based on any personal information.
  - e) Not be based on any dictionary word, in any language.
- If an operating system without security features is used (such as DOS, Windows or MacOS), then an intruder only needs temporary physical access to the console to insert a keyboard monitor program. If the workstation is not physically secured, then an intruder can reboot even a secure operating system, restart the workstation from his own media, and insert the offending program.
- To protect against network analysis attacks, both the workstation and server should be cryptographically secured. Examples of strong protocols are the encrypted Netware login and Kerberos.

## 14. Anti-virus policy

- All machines must be configured to run the latest anti-virus software as approved by Seagate Control Systems, Inc.. The preferred application to use is XXXX Anti-Virus software, which must be configured to retrieve the latest updates to the antiviral program automatically on a daily basis. The antivirus should have periodic scanning enabled for all the systems.
- The antivirus software in use should be cable of detecting all known types of malicious software (Viruses, Trojans, adware, spyware, worms and rootkits)
- All removable media (for example floppy and others) should be scanned for viruses before being used.
- All the logs generated from the antivirus solutions have to be retained as per legal/regulatory/contractual requirements or at a minimum of PCI DSS requirement 10.7 of 3 months online and 1 year offline.
- Master Installations of the Antivirus software should be setup for automatic updates and periodic scans
- End users must not be able to modify and any settings or alter the antivirus software
- E-mail with attachments coming from suspicious or unknown sources should not be opened. All such e-mails and their attachments should be deleted from the mail system as well as from the trash bin. No one should forward any e-mail, which they suspect may contain virus.

## 15. Patch Management Policy

- All Workstations, servers, software, system components etc. owned by Seagate Control Systems, Inc. must have up-to-date system security patches installed to protect the asset from known vulnerabilities.
- Where ever possible all systems, software must have automatic updates enabled for system patches released from their respective vendors. Security patches have to be installed within one month of release from the respective vendor and have to follow the process in accordance with change control process.

- Any exceptions to this process have to be documented.

## **16. Remote Access policy**

- It is the responsibility of Seagate Control Systems, Inc. employees, contractors, vendors and agents with remote access privileges to Seagate Control Systems, Inc.'s corporate network to ensure that their remote access connection is given the same consideration as the user's on-site connection to Seagate Control Systems, Inc..
- Secure remote access must be strictly controlled. Control will be enforced by two factor authentication via one-time password authentication or public/private keys with strong pass-phrases.
- Vendor accounts with access to Seagate Control Systems, Inc. network will only be enabled during the time period the access is required and will be disabled or removed once access is no longer required.
- Remote access connection will be setup to be disconnected automatically after 30 minutes of inactivity
- All hosts that are connected to Seagate Control Systems, Inc. internal networks via remote access technologies will be monitored on a regular basis.
- All remote access accounts used by vendors or 3rd parties will be reconciled at regular intervals and the accounts will be revoked if there is no further business justification.
- Vendor accounts with access to Seagate Control Systems, Inc. network will only be enabled during the time period the access is required and will be disabled or removed once access is no longer required.

## **17. Vulnerability Management Policy**

- All the vulnerabilities would be assigned a risk ranking such as High, Medium and Low based on industry best practices such as CVSS base score.
- As part of the PCI-DSS Compliance requirements, Seagate Control Systems, Inc. will run internal and external network vulnerability scans at least quarterly and after any significant change in the network (such as new system component installations, changes in network topology, firewall rule modifications, product upgrades).
- Quarterly internal vulnerability scans must be performed by Seagate Control Systems, Inc. by internal staff or a 3rd party vendor and the scan process has to include that rescans will be done until passing results are obtained, or all High vulnerabilities as defined in PCI DSS Requirement 6.2 are resolved.
- Quarterly external vulnerability scans must be performed by an Approved Scanning Vendor (ASV) qualified by PCI SSC. Scans conducted after network changes may be performed by Seagate Control Systems, Inc.'s internal staff. The scan process should include re-scans until passing results are obtained.

## **18. Configuration standards:**

- Information systems that process transmit, or store card holder data must be configured in accordance with the applicable standard for that class of device or system. Standards must be written and maintained by the team responsible for the management of the system in conjunction with the Information Security Office.
- All network device configurations must adhere to Seagate Control Systems, Inc. required standards before being placed on the network as specified in Seagate Control Systems, Inc. configuration guide. Using this guide, a boilerplate configuration has been created that will be applied to all network devices before being placed on the network.
- Before being deployed into production, a system must be certified to meet the applicable configuration standard
- Updates to network device operating system and/or configuration settings that fall under Seagate Control Systems, Inc. standards are announced by the Information security Office. Updates must be applied within the time frame identified by the Information security Office.
- Administrators of network devices that do not adhere to Seagate Control Systems, Inc. standards (as identified via a previous exception) must document and follow a review process of announced vendor updates to operating system and/or configuration settings. This process must include a review schedule, risk analysis method and update method.
- All network device configurations must be checked annually against the configuration boilerplate to ensure the configuration continues to meet required standards.
- Where possible, network configuration management software will be used to automate the process of confirming adherence to the boilerplate configuration.
- For other devices an audit will be performed quarterly to compare the boilerplate configuration to the configuration currently in place.
- All discrepancies will be evaluated and remediated by Network Administration.

## 19. Change control Process

- Changes to information resources shall be managed and executed according to a formal change control process. The control process will ensure that changes proposed are reviewed, authorised, tested, implemented, and released in a controlled manner; and that the status of each proposed change is monitored.
- The change control process shall be formally defined and documented. A change control process shall be in place to control changes to all critical company information resources (such as hardware, software, system documentation and operating procedures). This documented process shall include management responsibilities and procedures. Wherever practicable, operational and application change control procedures should be integrated.
- All change requests shall be logged whether approved or rejected on a standardised and central system. The approval of all change requests and the results thereof shall be documented. A documented audit trail, maintained at a Business Unit Level, containing relevant information shall be maintained at all times. This should include change request documentation, change

authorisation and the outcome of the change. No single person should be able to effect changes to production information systems without the approval of other authorised personnel.

- A risk assessment shall be performed for all changes and dependant on the outcome, an impact assessment should be performed.
- The impact assessment shall include the potential effect on other information resources and potential cost implications. The impact assessment should, where applicable consider compliance with legislative requirements and standards.
- All change requests shall be prioritised in terms of benefits, urgency, effort required and potential impact on operations.
- Changes shall be tested in an isolated, controlled, and representative environment (where such an environment is feasible) prior to implementation to minimise the effect on the relevant business process, to assess its impact on operations and security and to verify that only intended and approved changes were made. (For more information see System Development Life Cycle [citation here]).
- Any software change and/or update shall be controlled with version control. Older versions shall be retained in accordance with corporate retention and storage management policies. (For more information see System Development Life Cycle [citation here])
- All changes shall be approved prior to implementation. Approval of changes shall be based on formal acceptance criteria i.e. the change request was done by an authorised user, the impact assessment was performed and proposed changes were tested.
- All users, significantly affected by a change, shall be notified of the change. The user representative shall sign-off on the change. Users shall be required to make submissions and comment prior to the acceptance of the change.
- Implementation will only be undertaken after appropriate testing and approval by stakeholders. All major changes shall be treated as new system implementation and shall be established as a project. Major changes will be classified according to effort required to develop and implement said changes. (For more information see System Development Life Cycle [citation here])
- Procedures for aborting and recovering from unsuccessful changes shall be documented. Should the outcome of a change be different to the expected result (as identified in the testing of the change), procedures and responsibilities shall be noted for the recovery and continuity of the affected areas. Fall back procedures will be in place to ensure systems can revert back to what they were prior to implementation of changes.
- Information resources documentation shall be updated on the completion of each change and old documentation shall be archived or disposed of as per the documentation and data retention policies.
- Specific procedures to ensure the proper control, authorisation, and documentation of emergency changes shall be in place. Specific parameters will be defined as a standard for classifying changes as Emergency changes.
- All changes will be monitored once they have been rolled-out to the production environment. Deviations from design specifications and test results will be documented and escalated to the solution owner for ratification.

## 20. Audit and Log review

- This procedure covers all logs generated for systems within the cardholder data environment, based on the flow of cardholder data over Seagate Control Systems, Inc. network, including the following components:
  - Operating System Logs (Event Logs and su logs).
  - Database Audit Logs.
  - Firewalls & Network Switch Logs.
  - IDS Logs.
  - Antivirus Logs.
  - Cctv Video recordings.
  - File integrity monitoring system logs.
- Audit Logs must be maintained for a minimum of 3 months online (available for immediate analysis) and 12 months offline.
- Review of logs is to be carried out by means of Seagate Control Systems, Inc.'s network monitoring system (Seagate Control Systems, Inc. to define hostname), which is controlled from Seagate Control Systems, Inc. console (Seagate Control Systems, Inc. to define hostname). The console is installed on the server (Seagate Control Systems, Inc. to define hostname / IP address), located within Seagate Control Systems, Inc. data centre environment.
- The following personnel are the only people permitted to access log files (Seagate Control Systems, Inc. to define which individuals have a job-related need to view audit trails and access log files).
- The network monitoring system software (Seagate Control Systems, Inc. to define) is configured to alert Seagate Control Systems, Inc. [RESPONSIBLE TEAM] to any conditions deemed to be potentially suspicious, for further investigation. Alerts are configured to:
- A dashboard browser-based interface, monitored by Seagate Control Systems, Inc. [RESPONSIBLE TEAM].
- Email / SMS alerts to Seagate Control Systems, Inc. [RESPONSIBLE TEAM] mailbox with a summary of the incident. Seagate Control Systems, Inc. [ROLE NAME] also receives details of email alerts for informational purposes.
- The following Operating System Events are configured for logging, and are monitored by the console (Seagate Control Systems, Inc. to define hostname):
  - a) Any additions, modifications or deletions of user accounts.
  - b) Any failed or unauthorised attempt at user logon.
  - c) Any modification to system files.
  - d) Any access to the server, or application running on the server, including files that hold cardholder data.
  - e) Actions taken by any individual with root or administrative privileges.
  - f) Any user access to audit trails.



- g) Any creation / deletion of system-level objects installed by Windows. (Almost all system-level objects run with administrator privileges, and some can be abused to gain administrator access to a system.)
- The following Database System Events are configured for logging, and are monitored by the network monitoring system (Seagate Control Systems, Inc. to define software and hostname):
  - a) Any failed user access attempts to log in to the Oracle database.
  - b) Any login that has been added or removed as a database user to a database.
  - c) Any login that has been added or removed from a role.
  - d) Any database role that has been added or removed from a database.
  - e) Any password that has been changed for an application role.
  - f) Any database that has been created, altered, or dropped.
  - g) Any database object, such as a schema, that has been connected to.
  - h) Actions taken by any individual with DBA privileges.
- The following Firewall Events are configured for logging, and are monitored by the network monitoring system (Seagate Control Systems, Inc. to define software and hostname):
  - a) ACL violations.
  - b) Invalid user authentication attempts.
  - c) Logon and actions taken by any individual using privileged accounts.
  - d) Configuration changes made to the firewall (e.g. policies disabled, added, deleted, or modified).
- The following Switch Events are to be configured for logging and monitored by the network monitoring system (Seagate Control Systems, Inc. to define software and hostname):
  - a) Invalid user authentication attempts.
  - b) Logon and actions taken by any individual using privileged accounts.
  - c) Configuration changes made to the switch (e.g. configuration disabled, added, deleted, or modified).
- The following Intrusion Detection Events are to be configured for logging, and are monitored by the network monitoring system (Seagate Control Systems, Inc. to define software and hostname):
  - a) Any vulnerability listed in the Common Vulnerability Entry (CVE) database.
  - b) Any generic attack(s) not listed in CVE.
  - c) Any known denial of service attack(s).
  - d) Any traffic patterns that indicated pre-attack reconnaissance occurred.
  - e) Any attempts to exploit security-related configuration errors.
  - f) Any authentication failure(s) that might indicate an attack.
  - g) Any traffic to or from a back-door program.
  - h) Any traffic typical of known stealth attacks.
- The following File Integrity Events are to be configured for logging and monitored by (Seagate Control Systems, Inc. to define software and hostname):

- a) Any modification to system files.
  - b) Actions taken by any individual with Administrative privileges.
  - c) Any user access to audit trails.
  - d) Any Creation / Deletion of system-level objects installed by Windows. (Almost all system-level objects run with administrator privileges, and some can be abused to gain administrator access to a system.)
- For any suspicious event confirmed, the following must be recorded on F17 - Log Review Form, and Seagate Control Systems, Inc. [ROLE NAME] informed:
    - a) User Identification.
    - b) Event Type.
    - c) Date & Time.
    - d) Success or Failure indication.
    - e) Event Origination (e.g. IP address).
    - f) Reference to the data, system component or resource affected.

## 21. Secure Application development

- The Secure Application development policy is a plan of action to guide developers' decisions and actions during the software development lifecycle (SDLC) to ensure software security. This policy aims to be language and platform independent so that it is applicable across all software development projects.
- The adherence to and use of Secure Application Development Coding Policy is a requirement for all software development on Seagate Control Systems, Inc. information technology systems and trusted contractor sites processing Seagate Control Systems, Inc. data.
- Each phase of the SDLC is mapped with security activities, as explained below:
  - a) Design
    - Identify Design Requirements from security perspective
    - Architecture & Design Reviews
    - Threat Modelling
  - b) Coding
    - Coding Best Practices
    - Perform Static Analysis
  - c) Testing
    - Vulnerability Assessment
    - Fuzzing
  - d) Deployment
    - Server Configuration Review
    - Network Configuration Review

- Development of code shall be checked and validated with the most current versions of Seagate Control Systems, Inc. Coding Standards for Secure Application Development. All code developers shall verify that their code is in compliance with the most recent and approved coding standards and guidelines.
- Only validated code shall be implemented into Seagate Control Systems, Inc. production environment. A review and validation ensures that code exhibits fundamental security properties to include correctness, predictability, and attack tolerance.

Application Code Developers shall:

- Ensure code meets the level of confidence that software is free from exploitable code vulnerabilities, regardless of whether they are already designed into the software or inserted later in its life cycle.
- Ensure code provides predictable execution or justifiable confidence and that the software, when executed, will provide security functionality as intended.
- Coding techniques must address injection flaws particularly SQL injection, buffer overflow vulnerabilities, cross site scripting vulnerabilities, improper access control (insecure direct object reference, failure to restrict URL access, directory traversal etc.), cross site request forgery (CSRF), broken authentication and session management
- Never trust incoming data to the system, apply checks to this data.
- Never rely on the client to store sensitive data no matter how trivial.
- Disable Error messages that return any information to the user.
- Use object inheritance, encapsulation, and polymorphism wherever possible.
- Use environment variables prudently and always check boundaries and buffers.
- Applications must validate input to ensure it is well-formed and meaningful.

## 22. Penetration testing methodology

- In this section should be listed the risks inherent in conducting penetration testing over the information systems of Seagate Control Systems, Inc.. Additionally, it should be noted for each mitigation measures that will be taken. Examples might be:

Example 1#

Risk: Denial of Service in systems or network devices because of the network scans.

Mitigation measure 1: network scans must be performed in a controlled manner. The start and end of the scan must be notified to responsible personnel to allow monitoring during testing. For any sign of trouble will abort the scan in progress.

Mitigation measure 2: scanning tools must be configured to guarantee that the volume of sent packets or sessions established per minute does not cause a problem for network elements. In this sense, we must perform the first scans in a very controlled way and a use minimum configuration that may be expanded when is evident that the configuration is not dangerous for network devices or servers in the organization.

- Key staff involved in the project by the organization will be listed:

Technical Project Manager:  
 Chief Information Security Officer:  
 Chief Information Officer:  
 Head of Communications:  
 Responsible for web site YYYY.com:

- External intrusion tests will be performed remotely from the supplier's premises .Internal intrusion tests will be conducted in the office Seagate Control Systems, Inc. of the Organization. Audit team must to have access to the Organization's network. It must manage access permissions to the building early enough to ensure that the audit team can access without problems during planning period.
- All the tests will be conducted from the equipment owned by the audit team so no equipment for the execution of the tests is required. The only requirement in this regard will be to have an active network connection for each member of the audit team. Those connections must provide access to the target network segment in every case.
- If an incident occurs during the execution of the tests that have an impact on the systems or services of the organization, the incident should be brought immediately to the attention of those responsible for incident management in the project
- It should be noted that in order to comply with PCI DSS the scope of the test should include, at least the following:
  - All systems and applications that are part of the perimeter of the cardholder data environment card (CDE).

Example:

a) Systems included in the scope

System 1: IP: System: System Description

System 2: IP: System: System Description

Wifi network Seagate Control Systems, Inc.

.....

b) Applications included in the scope

Application 1: URL: Description of the application

.....

c) Systems excluded from the scope

System 5: IP: System: System Description

System 6: IP: System: System Description

.....

d) Applications excluded from the scope

### Application 3: URL: Description of the application

.....

- Technical tests must follow the OSSTMM methodology. Tests must be conducted at network, system and application level and must ensure that at least identifies any vulnerabilities documented by OWASP and SANS, as well as those identified in the PCI DSS standard v3:
  1. Injections: Code, SQL, OS commands, LDAP , XPath , etc.
  2. Buffer overflows.
  3. Insecure storage of cryptographic keys
  4. Insecure Communications
  5. Improper error handling
  6. Cross -site scripting (XSS)
  7. Control of inappropriate access.
  8. Cross - site request forgery (CSRF).
  9. Broken authentication and incorrectly session management.
  10. Any other vulnerability considered High Risk by the organization.
- For all findings or vulnerabilities identified during the tests carried out will be generated and documented sufficient evidence to prove the existence of the same. The format of the evidence can be variable in each case, screen capture, raw output of security tools, photographs, paper documents, etc.
- As a result of tests performed should generate a document containing at least the following sections:

Introduction  
Executive Summary  
Methodology  
Identified vulnerabilities  
Recommendations for correcting vulnerabilities  
Conclusions  
Evidence

## 23. Incident Response Plan

'Security incident' means any incident (accidental, intentional or deliberate) relating to your communications or information processing systems. The attacker could be a malicious stranger, a competitor, or a disgruntled employee, and their intention might be to steal information or money, or just to damage your company.

The Incident response plan has to be tested once annually. Copies of this incident response plan is to be made available to all relevant staff members, and take steps to ensure that they understand it and what is expected of them.

Employees of Seagate Control Systems, Inc. will be expected to report to the security officer for any security related issues.

Seagate Control Systems, Inc. PCI security incident response plan is as follows:

1. Each department must report an incident to the Information Security Officer (preferably) or to another member of the PCI Response Team.
2. That member of the team receiving the report will advise the PCI Response Team of the incident.
3. The PCI Response Team will investigate the incident and assist the potentially compromised department in limiting the exposure of cardholder data and in mitigating the risks associated with the incident.
4. The PCI Response Team will resolve the problem to the satisfaction of all parties involved, including reporting the incident and findings to the appropriate parties (credit card associations, credit card processors, etc.) as necessary.
5. The PCI Response Team will determine if policies and processes need to be updated to avoid a similar incident in the future, and whether additional safeguards are required in the environment where the incident occurred, or for the institution.
6. If an unauthorised wireless access point or devices is identified or detected as part of the quarterly test this is should be immediately escalated to the Security officer or someone with similar privileges who has the authority to stop, cease, shut down, and remove the offending device immediately.
7. A department that reasonably believes it may have an account breach, or a breach of cardholder information or of systems related to the PCI environment in general, must inform Seagate Control Systems, Inc. PCI Incident Response Team. After being notified of a compromise, the PCI Response Team, along with other designated staff, will implement the PCI Incident Response Plan to assist and augment departments' response plans.

Seagate Control Systems, Inc. PCI Security Incident Response Team: **(Update as applicable)**

CIO  
Communications Director  
Compliance Officer  
Counsel  
Information Security Officer  
Collections & Merchant Services  
Risk Manager

### **Incident Response Notification**

#### Escalation Members

Escalation – First Level  
Information Security Officer  
Controller  
Executive Project Director for Credit Collections and Merchant Services Legal  
Counsel  
Risk Manager  
Director of Seagate Control Systems, Inc. Communications

Escalation – Second Level  
Seagate Control Systems, Inc. President

Executive Cabinet  
Internal Audit  
Auxiliary members as needed

External Contacts (as needed)

Merchant Provider Card  
Brands  
Internet Service Provider (if applicable)  
Internet Service Provider of Intruder (if applicable)  
Communication Carriers (local and long distance) Business  
Partners  
Insurance Carrier  
External Response Team as applicable (CERT Coordination Center 1, etc) Law  
Enforcement Agencies as applicable in local jurisdiction

In response to a systems compromise, the PCI Response Team and designees will:

1. Ensure compromised system/s is isolated on/from the network.
2. Gather, review and analyze the logs and related information from various central and local safeguards and security controls
3. Conduct appropriate forensic analysis of compromised system.
4. Contact internal and external departments and entities as appropriate.
5. Make forensic and log analysis available to appropriate law enforcement or card industry security personnel, as required.
6. Assist law enforcement and card industry security personnel in investigative processes, including in prosecutions.

The card companies have individually specific requirements the Response Team must address in reporting suspected or confirmed breaches of cardholder data.

Incident Response notifications to various card schemes

1. In the event of a suspected security breach, alert the information security officer or your line manager immediately.
2. The security officer will carry out an initial investigation of the suspected security breach.
3. Upon confirmation that a security breach has occurred, the security officer will alert management and begin informing all relevant parties that may be affected by the compromise.

## **VISA Steps**

If the data security compromise involves credit card account numbers, implement the following procedure:

- Shut down any systems or processes involved in the breach to limit the extent, and prevent further exposure.
- Alert all affected parties and authorities such as the Merchant Bank (your Bank), Visa Fraud Control, and the law enforcement.
- Provide details of all compromised or potentially compromised card numbers to Visa Fraud

Control within 24 hrs.

- For more Information visit:  
[http://usa.visa.com/business/accepting\\_visa/ops\\_risk\\_management/cisp\\_if\\_compromised.html](http://usa.visa.com/business/accepting_visa/ops_risk_management/cisp_if_compromised.html)

## **Visa Incident Report Template**

This report must be provided to VISA within 14 days after initial report of incident to VISA. The following report content and standards must be followed when completing the incident report. Incident report must be securely distributed to VISA and Merchant Bank. Visa will classify the report as "VISA Secret"\*.

### **I. Executive Summary**

- a. Include overview of the incident
- b. Include RISK Level (High, Medium, Low)
- c. Determine if compromise has been contained

### **II. Background**

### **III. Initial Analysis**

### **IV. Investigative Procedures**

- a. Include forensic tools used during investigation

### **V. Findings**

- a. Number of accounts at risk, identify those stores and compromised
- b. Type of account information at risk
- c. Identify ALL systems analyzed. Include the following:
  - Domain Name System (DNS) names
  - Internet Protocol (IP) addresses
  - Operating System (OS) version
  - Function of system(s)
- d. Identify ALL compromised systems. Include the following:
  - DNS names
  - IP addresses
  - OS version
  - Function of System(s)
- e. Timeframe of compromise
- f. Any data exported by intruder
- g. Establish how and source of compromise
- h. Check all potential database locations to ensure that no CVV2, Track 1 or Track 2 data is stored anywhere, whether encrypted or unencrypted (e.g., duplicate or backup tables or databases, databases used in development, stage or testing environments, data on software engineers' machines, etc.)
- i. If applicable, review VisaNet endpoint security and determine risk

### **VI. Compromised Entity Action**

### **VII. Recommendations**

### **VIII. Contact(s) at entity and security assessor performing investigation**

\*This classification applies to the most sensitive business information, which is intended for use within VISA. Its unauthorized disclosure could seriously and adversely impact VISA, its employees, member banks, business partners, and/or the Brand

## **MasterCard Steps:**



1. Within 24 hours of an account compromise event, notify the MasterCard Compromised Account Team via phone at 1-636-722-4100.
2. Provide a detailed written statement of fact about the account compromise (including the contributing circumstances) via secured e-mail to [compromised\\_account\\_team@mastercard.com](mailto:compromised_account_team@mastercard.com).
3. Provide the MasterCard Merchant Fraud Control Department with a complete list of all known compromised account numbers.
4. Within 72 hours of knowledge of a suspected account compromise, engage the services of a data security firm acceptable to MasterCard to assess the vulnerability of the compromised data and related systems (such as a detailed forensics evaluation).
5. Provide weekly written status reports to MasterCard, addressing open questions and issues until the audit is complete to the satisfaction of MasterCard.
6. Promptly furnish updated lists of potential or known compromised account numbers, additional documentation, and other information that MasterCard may request.
7. Provide finding of all audits and investigations to the MasterCard Merchant Fraud Control department within the required time frame and continue to address any outstanding exposure or recommendation until resolved to the satisfaction of MasterCard.

Once MasterCard obtains the details of the account data compromise and the list of compromised account numbers, MasterCard will:

1. Identify the issuers of the accounts that were suspected to have been compromised and group all known accounts under the respective parent member IDs.
2. Distribute the account number data to its respective issuers.

Employees of Seagate Control Systems, Inc. will be expected to report to the security officer for any security related issues. The role of the security officer is to effectively communicate all security policies and procedures to employees within Seagate Control Systems, Inc. and contractors. In addition to this, the security officer will oversee the scheduling of security training sessions, monitor and enforce the security policies outlined in both this document and at the training sessions and finally, oversee the implantation of the incident response plan in the event of a sensitive data compromise.

### **Discover Card Steps**

1. Within 24 hours of an account compromise event, notify Discover Fraud Prevention
2. Prepare a detailed written statement of fact about the account compromise including the contributing circumstances
3. Prepare a list of all known compromised account numbers
4. Obtain additional specific requirements from Discover Card

### **American Express Steps**

1. Within 24 hours of an account compromise event, notify American Express Merchant Services
2. Prepare a detailed written statement of fact about the account compromise including the contributing circumstances

3. Prepare a list of all known compromised account numbers  
Obtain additional specific requirements from American Express

## **24. Roles and Responsibilities**

- Chief Security Officer (or equivalent) is responsible for overseeing all aspects of information security, including but not limited to:
- Creating and distributing security policies and procedures.
- Monitoring and analysing security alerts and distributing information to appropriate information security and business unit management personnel.
- creating and distributing security incident response and escalation procedures that include:
- Maintaining a formal security awareness program for all employees that provide multiple methods of communicating awareness and educating employees (for example, posters, letters, meetings).
- The Information Technology Office (or equivalent) shall maintain daily administrative and technical operational security procedures that are consistent with the PCI-DSS (for example, user account maintenance procedures, and log review procedures).
- System and Application Administrators shall:
- monitor and analyse security alerts and information and distribute to appropriate personnel
- administer user accounts and manage authentication
- Monitor and control all access to data.
- Maintain a list of service providers.
- Ensure there is a process for engaging service providers including proper due diligence prior to engagement.
- Maintain a program to verify service providers' PCI-DSS compliant status, with supporting documentation.
- The Human Resources Office (or equivalent) is responsible for tracking employee participation in the security awareness program, including:
- Facilitating participation upon hire and at least annually.
- Ensuring that employees acknowledge in writing at least annually that they have read and understand Seagate Control Systems, Inc.'s information security policy.
- General Counsel (or equivalent) will ensure that for service providers with whom cardholder information is shared:
- Written contracts require adherence to PCI-DSS by the service provider.
- Written contracts include acknowledgement or responsibility for the security of cardholder data by the service provider.

## **25. Third party access to card holder data**

- All third-party companies providing critical services to Seagate Control Systems, Inc. must provide an agreed Service Level Agreement.
- All third-party companies providing hosting facilities must comply with Seagate Control Systems, Inc.'s Physical Security and Access Control Policy.

- All third-party companies which have access to Card Holder information must:
  1. Adhere to the PCI DSS security requirements.
  2. Acknowledge their responsibility for securing the Card Holder data.
  3. Acknowledge that the Card Holder data must only be used for assisting the completion of a transaction, supporting a loyalty program, providing a fraud control service or for uses specifically required by law.
  4. Have appropriate provisions for business continuity in the event of a major disruption, disaster or failure.
  5. Provide full cooperation and access to conduct a thorough security review after a security intrusion to a Payment Card industry representative, or a Payment Card industry approved third party.

## 26. User Access Management

- Access to **Seagate Control Systems, Inc.** is controlled through a formal user registration process beginning with a formal notification from HR or from a line manager.
- Each user is identified by a unique user ID so that users can be linked to and made responsible for their actions. The use of group IDs is only permitted where they are suitable for the work carried out.
- There is a standard level of access; other services can be accessed when specifically authorized by HR/line management.
- The job function of the user decides the level of access the employee has to cardholder data
- A request for service must be made in writing (email or hard copy) by the newcomer's line manager or by HR. The request is free format, but must state:

Name of person making request:

Job title of the newcomers and workgroup:

Start date:

Services required (default services are: MS Outlook, MS Office and Internet access):

- Each user will be given a copy of their new user form to provide a written statement of their access rights, signed by an IT representative after their induction procedure. The user signs the form indicating that they understand the conditions of access.
- Access to all Seagate Control Systems, Inc. systems is provided by IT and can only be started after proper procedures are completed.
- As soon as an individual leaves Seagate Control Systems, Inc. employment, all his/her system logons must be immediately revoked.
- As part of the employee termination process HR (or line managers in the case of contractors) will inform IT operations of all leavers and their date of leaving.

## 27. Access Control Policy

- Access Control systems are in place to protect the interests of all users of Seagate Control Systems, Inc. computer systems by providing a safe, secure and readily accessible environment in which to work.

- Seagate Control Systems, Inc. will provide all employees and other users with the information they need to carry out their responsibilities in as effective and efficient manner as possible.
- Generic or group IDs shall not normally be permitted, but may be granted under exceptional circumstances if sufficient other controls on access are in place.
- The allocation of privilege rights (e.g. local administrator, domain administrator, super-user, root access) shall be restricted and controlled, and authorization provided jointly by the system owner and IT Services. Technical teams shall guard against issuing privilege rights to entire teams to prevent loss of confidentiality.
- Access rights will be accorded following the principles of least privilege and need to know.
- Every user should attempt to maintain the security of data at its classified level even if technical security mechanisms fail or are absent.
- Users electing to place information on digital media or storage devices or maintaining a separate database must only do so where such an action is in accord with the data's classification
- Users are obligated to report instances of non-compliance to the Seagate Control Systems, Inc. CISO
- Access to Seagate Control Systems, Inc. IT resources and services will be given through the provision of a unique Active Directory account and complex password.
- No access to any Seagate Control Systems, Inc. IT resources and services will be provided without prior authentication and authorization of a user's Seagate Control Systems, Inc. Windows Active Directory account.
- Password issuing, strength requirements, changing and control will be managed through formal processes. Password length, complexity and expiration times will be controlled through Windows Active Directory Group Policy Objects.
- Access to Confidential, Restricted and Protected information will be limited to authorised persons whose job responsibilities require it, as determined by the data owner or their designated representative. Requests for access permission to be granted, changed or revoked must be made in writing.
- Users are expected to become familiar with and abide by Seagate Control Systems, Inc. policies, standards and guidelines for appropriate and acceptable usage of the networks and systems.
- Access for remote users shall be subject to authorization by IT Services and be provided in accordance with the Remote Access Policy and the Information Security Policy. No uncontrolled external access shall be permitted to any network device or networked system.
- Access to data is variously and appropriately controlled according to the data classification levels described in the Information Security Management Policy.
- Access control methods include logon access rights, Windows share and NTFS permissions, user account privileges, server and workstation access rights, firewall permissions, IIS intranet/extranet authentication rights, SQL database rights, isolated networks and other methods as necessary.
- A formal process shall be conducted at regular intervals by system owners and data owners in conjunction with IT Services to review users' access rights. The review shall be logged and IT Services shall sign off the review to give authority for users' continued access rights

## 28. Wireless Policy

- Installation or use of any wireless device or wireless network intended to be used to connect to any of the Seagate Control Systems, Inc. networks or environments is prohibited.
- A quarterly test should be run to discover any wireless access points connected to Seagate Control Systems, Inc. network
- Usage of appropriate testing using tools like net stumbler, kismet etc. must be performed on a quarterly basis to ensure that:
- Any devices which support wireless communication remain disabled or decommissioned.
- If any violation of the Wireless Policy is discovered as a result of the normal audit processes, the security officer or any one with similar job description has the authorisation to stop, cease, shut down, and remove the offending device immediately.

If the need arises to use wireless technology it should be approved by Seagate Control Systems, Inc. and the following wireless standards have to be adhered to:

1. Default SNMP community strings and passwords, passphrases, Encryption keys/security related vendor defaults (if applicable) should be changed immediately after the installation of the device and if anyone with knowledge of these leaves Seagate Control Systems, Inc..
2. The firmware on the wireless devices has to be updated accordingly as per vendors release schedule
3. The firmware on the wireless devices must support strong encryption for authentication and transmission over wireless networks.
4. Any other security related wireless vendor defaults should be changed if applicable.
5. Wireless networks must implement industry best practices (IEEE 802.11i) and strong encryption for authentication and transmission of cardholder data.
6. An Inventory of authorized access points along with a business justification must be maintained. (Update Appendix B)

## **Appendix A – Agreement to Comply Form – Agreement to Comply With Information Security Policies**

\_\_\_\_\_  
**Employee Name (printed)**

\_\_\_\_\_  
**Department**

I agree to take all reasonable precautions to assure that company internal information, or information that has been entrusted to Seagate Control Systems, Inc. by third parties such as customers, will not be disclosed to unauthorised persons. At the end of my employment or contract with Seagate Control Systems, Inc., I agree to return all information to which I have had access as a result of my position. I understand that I am not authorised to use sensitive information for my own purposes, nor am I at liberty to provide this information to third parties without the express written consent of the internal manager who is the designated information owner.

I have access to a copy of the Information Security Policies, I have read and understand these policies, and I understand how it impacts my job. As a condition of continued employment, I agree to abide by the policies and other requirements found in Seagate Control Systems, Inc. security policy. I understand that non-compliance will be cause for disciplinary action up to and including dismissal, and perhaps criminal and/or civil penalties.

I also agree to promptly report all violations or suspected violations of information security policies to the designated security officer.

\_\_\_\_\_  
**Employee Signature**

Appendix B

Asset/Device Name	Description	Owner/Approved User	Location

List of Service Providers

Name of Service Provider	Contact Details	Services Provided	PCI DSS Compliant	PCI DSS Validation Date