

**Standards for Information Security Measures for the
Central Government Computer Systems
(Dec 2005 (General, First Edition))**

Dec 13, 2005

Established by the Information Security Policy Council

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Chapter 1 General

1.1.1 Positioning of Standards for Measures

(1) Positioning of these Standards for Measures on enhancement of Information Security Measures for the Central Government Computer Systems

In principle, each government agency must take its own responsibility for measures to ensure information security. However, it is necessary to formulate a unified framework to provide guidance on such measures and raise the level of information security in unison based on the “Policy for Enhancement of Information Security Measures for the Central Government Computer Systems (decision by the Information Security Council on Sep 15, 2005)” in order to enhance the information security measures across the board for government agencies. These Standards for Measures will provide the standards for the measures that each government agency should take to achieve information security and the measures to further raise the level of information security in the unified framework.

(2) Revising the Standards for Measures

It is important to grasp the changes in circumstances appropriately and review the information security measures in order to maintain an appropriate level of information security. It is possible that what and how to add to or revise these Standards for Measures will be known after each government agency uses these to formulate standards of government agency and operation procedures in view of its characteristics and to evaluate its information security measures. Also, it is possible that revising information security measures in these Standards for Measures is required to be made in accordance with development of information technologies.

With this in mind, these Standards for Measures shall be reviewed periodically and added to or expanded in order to maintain their applicability in the future. Each government agency must update standards for measures implemented by government agency appropriately when these Standards for Measures are revised.

(3) Complying with laws and regulations

How information and information systems should be handled is also formulated in laws and regulations (hereinafter “relevant laws and regulations”). So, besides these Standards for Measures, such relevant laws and regulations must be conformed to when information security measures are taken. Because these relevant laws and regulations should be conformed to regardless of the information security measures formulated, these Standards for Measures do not specifically mention them. Also, the existing government decisions on information security measures must be conformed to as well.

1.1.2 How to use Standards for Measures

(1) Relationship of these Standards for Measures and Standards of Government Agency

These Standards for Measures provide the standards for the measures that each government agency should take to achieve information security and the measures to further raise the level of information security. Each government agency shall review the current information security rules as needed in order to achieve higher information security than provided for in these Standards for Measures. Therefore, each government agency must not leave its standards of government agency updated based on these Standards for Measures without rational reasons. Each government agency must determine what to define in standards of government agency in view of its characteristics and update its standards of government agency appropriately by referring to these Standards for Measures directly, and incorporating the relevant contents of these Standards for Measures with or without modifications (structure, expressions.)

(2) Scope

These Standards for Measures shall be applied as follows:

- (a) These Standards for Measures are formulated for the purpose of protecting “information.” “Information” in these Standards for Measures means information that is stored in the information systems and the electronic storage media outside the information systems, and information related to the information systems that is written or printed on the documents. Unfinalized documents are also included within this scope. Information written or printed on the documents can be documents containing electronically recorded information (documents containing input information and those containing output information of the information systems) and design specifications of the information systems.
- (b) These Standards for Measures shall be applied to the employees who handle information and information systems. In these Standards for Measures, “employee” means an employee who handles information and information systems unless otherwise noted.
- (c) In the Standards for Measures, “government agency” means Cabinet Secretariat, Cabinet Legislation Bureau, National Personnel Authority, Cabinet Office, Imperial Household Agency, Japan Fair Trade Commission, National Public Safety Commission (National Police Agency), Defense Agency, Financial Services Agency, Ministry of Internal Affairs and Communications, Ministry of Justice, Ministry of Foreign Affairs, Ministry of Finance, Ministry of Education, Culture, Sports, Science and Technology, Ministry of Health, Labor and Welfare, Ministry of Agriculture, Forestry and Fisheries, Ministry of Economy, Trade and Industry, Ministry of Land, Infrastructure and Transport, and Ministry of the Environment.

(3) Structure

These Standards for Measures are composed of three levels – chapter, section and item.

These Standards for Measures organize information security measures into the chapters of "Building the Organization and System," "Measures for Information," "Measures based on Clarified Information Security Requirements," "Measures for Components of Information Systems," and "Measures for Individual Considerations," and arranges the contents into sections, then itemizes standards for the measures.

- (a) "Building the Organization and System" describes organizational issues such as system, evaluation procedure, breach, and exceptional measures and also clarifies operational authority and responsibilities of employees so that the whole organization can take information security measures.
- (b) "Measures for Information" defines compliance requirements at each stage of the information lifecycle – creation, use, storage, transfer, provision, and deletion, and also indicate the measures that employees must always take when they execute their tasks to protect information.
- (c) "Measures based on Clarified Information Security Requirements" explains security functions such as access control to introduce into the information systems, and also defines compliance requirements to prevent threats such as security holes, malware, and denial of service attacks in order to describe measures to take for the information systems.
- (d) "Measures for Components of Information Systems" defines compliance requirements in order to describes measure to take for the information systems in view of the individual characteristics and lifecycle of information systems such as computers and communication lines.
- (e) "Measures for Individual Consideration" defines compliance requirements for individual consideration that need specific attention in terms of information security such as procurement, development, and information processing outside the government facility.

(4) Itemized Measures

These Standards for Measures set compliance requirements for measures each government agency should take by individual item.

(5) Setting the Level of Measures

The information security measures that should be taken are not single level because they depend on the importance of the information assets or threats that exist. Also, the appropriate strength in accordance with the characteristics of information systems and tasks for each measure should be taken. With this in mind, these Standards for Measures have multi levels of strength for each measure, and define compliance requirements to be taken. This level is called "the level of measures" and is formulated as follows:

- (a) “BASIC Requirements”: measures that should be taken as mandatory for the information to protect and the information systems that handle such information.
- (b) “ENHANCED Requirements”: measures that should be taken for especially important information and the information systems that handle such information if each government agency considers them required after considering whether they are required.

By following the above items, each government agency shall take measures that satisfy or exceed the BASIC Requirements. Each government agency must select an appropriate level for each compliance requirement after evaluation of the risks based on the characteristics of the information systems and tasks.

(6) Evaluation Procedure

It is essential that information security measures are continuously feasible without delay but not transient. Therefore, each government agency must confirm that the following requirements are met based on these Standards for Measures by conducting information security auditing periodically or as incidents arise.

- (a) The standards of government agency conform to these Standards for Measures (confirming the compliance in design.)
- (b) Actual operations conform to the standards of government agency. (confirming the compliance in operation.)
- (c) The standards of government agency are appropriate and efficient for the risks, or not unfeasible (confirming the adequacy in design).
- (d) Actual operations are appropriate and efficient for the risks (confirming the adequacy of operations).

Particularly, the most important purpose of information security auditing at each government agency is to achieve compliance in design and operation. In the case that any improvements that it believes necessary in terms of adequacy of design (formulating) and operation (implementation) are found in the course of the auditing, it is desirable to put it on a list of concerns. In these Standards for Measures, compliance requirements are formulated along with the person who should execute the tasks. So, each employee shall conduct a self-assessment of how well the measures are taken based on his or her role. It is essential for each employee to fulfill his or her role to implement information security measures and conducting self-assessment helps to operate with adequate measures. To achieve this goal, each government agency shall grasp how well the measures are implemented by conducting an auditing as to whether the self-assessment is adequate and how well the measures are implemented.

In principle, each government agency must take responsibility for implementing its own information security measures. However, in order to promote information security measures for government agencies across the board, it must report to the National Information Security Center about how well the measures are implemented and the results of auditing. Then,

National Information Security Center will inspect and evaluate how well the information security rules for each government agency are formulated and measures are implemented based on the evaluation metrics formulated in these Standards for Measures periodically or as needed. The scope of applicable information systems shall be discussed and determined by the National Information Security Center and each government agency.

1.1.3 Definition of Terms

- “Access control” means to restrict objects to which a subject is allowed to have access.
- “Secure area” means the inside of an office or a server room in which computers and communication equipment are located, where the measures against information security violations caused by outside hackers and disasters are implemented physically and environmentally.
- “Contractor” means a person who undertakes all or a part of the processing tasks on information systems such as planning, development, maintenance, and operation.
- “Delivery personnel” means a person whose purpose is to receive or pass items to employees working in a secure area and who does not need to enter the secure area. Such exchanges of items can occur in courier services and delivery of office equipment, etc.
- “Outsourcing” means to order all or a part of the processing tasks on information systems such as planning, development, maintenance, and operation to the personnel outside the government agency.
- “External storage media” means a storage device that can be removed from an information device (magnetic tape, magnetic disk, optical disk, cassette, MO, floppy disk and USB memory, etc.)
- “Availability” means to have a status in which a person who is allowed to access information can access the information and the related assets without being interrupted when he or she needs to do so.
- “Availability class-1 information” means the information that is not availability class-2 information (except written documents.)
- “Availability class-2 information” means the information that is handled in the tasks of the government agency (except written documents) and can infringe citizens’ rights or have an impact (except minor ones) on the stable operation of the government agency if damaged, lost, or made unavailable.
- “Integrity” means to have a state in which information is not damaged, altered, or deleted.
- “Integrity class-1 information” means the information that is not integrity class-2 information (except written documents.)
- “Integrity class-2 information” means the information that is handled in the work of the government agency (except written documents) and can infringe citizens’ rights or have an

impact (except minor ones) on accurate operation of tasks of the government agency if altered, wrongly described, or damaged.

- “Equipment, etc.” means information equipment and software.
- “Confidentiality” means a state in which only a person who is allowed access can access the information.
- “Confidentiality class-1 information” means the information that is not confidentiality class-2 information or confidentiality class-3 information.
- “Confidentiality class-2 information” means the information that is handled in the work of the government agency but is not confidential or supposed to be published.
- “Confidentiality class-3 information” means the information that is handled in the tasks of the government agency and is not confidential.
- “Employee” means a person who works under the direction of a legal employee and each government agency and handles information and information systems managed by the government agency.
- “Shared identification code” means an identification code that is shared by multiple subjects. In principle, a single identification code is granted to a single subject; however, it can be shared by multiple subjects if there are any restrictions on the information system or in consideration of how they are used. Such an identification code is called a shared identification code.
- “Administration” means to manage the granting of information for authentication (including identification code and authentication information) and the granting of information for permission of access control.
- “Announced security hole” means a security hole that can be known to everyone and includes one announced by software or hardware manufacturer and vendors and one announced by security-related organizations such as the JPCERT Coordination Center.
- “Service” means a set of functions that is composed of a single or multiple functions provided to the connected computer by an application running on a server.
- “Least privilege” means a function by which a person who is granted an identification code with administrative rights can use it only when he or she executes the administrative task.
- “Identification” means to identify the subject that accesses an information system.
- “Identification code” means a code that an information system recognizes to identify the subject. A User ID is a typical identification code.
- “Subject” means a person who accesses the information systems or other information systems and a device. A subject is supposed to be human in principle; however, other information systems and devices can be subjects when multiple information systems and devices work in coordination.
- “Authentication” means to verify whether the subject that presents an identification code is legitimate or the one that is granted the identification code. The information system recognizes the subject as legitimate if the identification code and authentication

information are presented in a correct way and authentication is successful. Though being “authenticated” means to be proved officially or by a third party, ”authentication” in these Standards for Measures does not always mean such proof.

- “Authentication information” means information that a subject presents to an information system in order to become authenticated. A password is typical authentication information.
- “Authentication information storage device” means a device that stores authentication information so that a legitimate subject can own or hold it. In the case that an authentication method based on ownership is used, the information system recognizes the subject as legitimate if it has this.
A magnetic tape card and IC card are typical authentication information storage devices.
- “Standards of government agency” means the information security policies that each government agency defines; they are basic policies of information security measures and information security standards that are applicable to all information assets.
- “Information system” means a computer system that provides information processing and communications.
- “Information security rules” are the standards of government agency and the operation procedures that provide step-by-step instructions on how to execute the measures formulated in the standards of government agency in specific information systems and tasks.
- “Information transfer” means to transmit electronically recorded information and to transport external storage media, PCs and written documents that contain information outside the government facility.
- “Legal employee” means an employee who is designated to execute administrative tasks by appointment.
- “Software” means procedures and orders to operate a computer that are written in a form that computers can understand. An operating system and applications running on the operating system can be viewed as software in a broad sense.
- “Security update file” means an electronic file that is used to close a security hole, such as a patch or software upgrade.
- “Terminal” means a computer that an employee directly operates (including an operating system and connected peripheral devices) such as a PC and a PDA.
- “Communication line” means a mechanism by which multiple computers are connected to send or receive information in a prescribed communication protocol. A communication line which is established by connecting a line and communication equipment is called a physical communication line, and a communication line which is formulated over the physical communication line and can exchange information in a prescribed communication protocol is called a logical communication line.
- “Communication equipment” means a device that is located to connect the lines and used to control the information exchanged by computers via a communication line. Repeater

hubs, switching hubs, routers, and firewalls are included.

- “Computers” means computers in general and includes operating systems, servers including connected peripheral devices, and terminals.
- “Marking” is information to indicate restrictions on how to handle the information (Do not copy, internal use only, do not re-distribute, encryption required, and destroy after reading etc.)
- “Multiple factors authentication / composite authentication” is an authentication method in which multiple factors of knowledge, ownership, and biological information are used to authenticate.
- “Outside the Government Agency” means outside the organization or building managed by the government agency that legal employees belong to.
- “Communication line outside the government agency” means a logical communication line which computers that are not managed by the government agency are connected with and is used for communications between such computers regardless of what physical communication lines (wired/wireless, real/virtual, managed by the government agency/other organizations) or communication equipment are used.
- “Information processing outside the government facility” means doing information processing required to execute the administrative tasks outside the organization or building managed by the government agency. This includes offline processing as well as online processing by connecting from outside the government facility to the information systems of the government agency that legal employees belong to.
- “Information systems not supplied by the government (unsupplied information system)” means the information systems that are not the ones supplied by the government agency which legal employees belong to. These include private PCs and the information systems provided to loan employees working in the relevant government agency by the original organization.
- “Information processing using information systems not supplied by the government” means doing information processing required to execute the administrative tasks using unsupplied information systems. This includes not only using the devices directly but also using the services provided by the devices. A service here means one such as an e-mail service for private use. Transferring business e-mail messages required to execute the administrative tasks to a privately used e-mail service and vice versa are the examples.
- “Inside the government agency” means inside the organization or building managed by the government agency which legal employees belong to.
- “Communication line inside the government agency” means a logical communication line which computers that are managed by the government agency are connected with and is used for communications between such computers regardless of what physical communication lines (wired/wireless, real/virtual, managed by the government agency/other organizations) or communication equipment are used.

- “Malware” means software in general which brings a result unwanted for computer users, such as computer viruses and spyware.
- “Malware definition file” means the data which antivirus software, etc. uses to determine malware.
- “Granting” (information for authentication or information for permission of access control) means to issue, update and modify such information.
- “Labeling” means to put information into a state in which all persons who handle it can have a common understanding of its classification. The classification must be shown for each item of information in principle. However, for specific information systems, clearly stating classification of information stored in the information system in the rule, etc. and notifying the rule to all persons who use the information system is also labeling.
- “Mobile PC” means a terminal that is movable as needed for business purposes regardless of terminal shape. A laptop PC that is used at a specific place is not a mobile PC.
- “Vital information” means availability class-2 information.
- “Confidential information” means confidentiality class-2 information and confidentiality class-3 information.
- “Classified information” means confidential information, critical information, and vital information.
- “Critical information” means integrity class-2 information.
- “Exceptional measures” means that an employee takes alternative measures required in order to continue executing his or her administrative tasks appropriately, or, if there is a rational reason for doing so, reports and obtains permission not to meet the compliance requirements in the case that complying with the relevant information security rules is difficult.
- “Login” means an action in which a subject requests authentication. Because login is followed by authentication, validity of the subject is unknown at the login stage.
- “Logon” means the status in which the subject that has requested authentication by login is validated by the information system.

Chapter 2 Building the Organization and System

2.1 Introduction

2.1.1 Establishing the Organization and System

Compliance Requirements

(1) Designating the chief information security officer

[BASIC Requirements]

- (a) A chief information security officer must be designated.
- (b) The chief information security officer must direct the tasks for information security measures in the government agency that he or she belongs to.
- (c) The chief information security officer must designate a person who has in-depth knowledge and specialized experience in information security as the chief information security advisor as needed.

(2) Designating the information security committee

[BASIC Requirements]

- (a) The chief information security officer must establish the information security committee and designate a chairperson and members of the committee.
- (b) The information security committee must formulate the standards of government agency for information security and gain approval from the chief information security officer.

(3) Designating the chief information security auditor

[BASIC Requirements]

- (a) The chief information security officer must designate the chief information security auditor.
- (b) The chief information security auditor must direct the tasks for the audit under the direction of the chief information security officer.

(4) Designating the information security officers

[BASIC Requirements]

- (a) The chief information security officer must determine the management unit to be used to implement the information security measures and designate an information security officer for each unit. The head of information security officers must be designated to give directions to the information security officers.
- (b) The information security officer must give directions for the administrative tasks for information security measures in the unit he or she governs.
- (c) The head of information security officers must define administrative procedures for

employment, job termination, and job transfer that occur in implementing information security measures and gain approval from the chief information security officer.

- (d) The information security officer must periodically ensure that administrative procedures for employment, job termination, and job transfer that occur in implementing information security measures are followed.
- (e) The chief information security officer must report the designating and changing of any information security officers to the head of information security officers.
- (f) The head of information security officers must formulate a network for all information security officers.

(5) Designating the information system security officers

[BASIC Requirements]

- (a) The information security officer must designate information system security officers for the information systems in the unit he or she manages.
- (b) The information system security officer must direct the administrative tasks for information security measures for the information systems he or she manages.
- (c) The information security officer must report the designating and changing of any information system security officers to the head of information security officers.
- (d) The head of information security officers must formulate a network for all information system security officers.

(6) Designating the information system security administrators

[BASIC Requirements]

- (a) The information system security officer must designate an information system security administrator for each unit required for the administrative tasks for the information system he or she manages.
- (b) The information system security administrator must implement information security measures for the administrative tasks he or she manages.
- (c) The information system security officer must report the designating and changing of any information system security administrators to the head of information security officer.
- (d) The head of information security officers must formulate a network for all information system security administrators.

(7) Designating the division/office information security officers

[BASIC Requirements]

- (a) The information security officer must designate a division/office information security officer for each division/office.
- (b) The division/office information security officer must direct the administrative tasks for information security measures in the division/office he or she manages.

- (c) The information security officer must report the designating and changing of any division/office information security officers to the head of information security officers.
- (d) The head of information security officers must formulate a network for all division/office information security officers.

2.1.2 Separation of Roles

Compliance Requirements

- (1) Defining the roles that must not be undertaken by the same person
[BASIC Requirements]

- (a) In the context of the implementation of information security measures, the following roles must not be undertaken by the same person.
 - (i) The applicant and the approver of any request
 - (ii) The auditee and the auditor

2.1.3 Violation and Exceptional Measures

Compliance Requirements

- (1) Handling the violations

[BASIC Requirements]

- (a) The employee must report to the information security officer who is responsible for the information security rules in the case of finding any serious breach of them.
 - (b) The information security officer must instruct the violator or the pertinent persons to take necessary measures to maintain information security in the case of being informed of or finding any serious breach of the information security rules.
 - (c) The information security officer must report to the chief information security officer in the case of being informed of or finding any serious breach of the information security rules.

- (2) Exceptional measures

[BASIC Requirements]

- (a) The information security committee must designate the person who judges whether the request for applying any exceptional measures should be allowed or denied (hereinafter referred to as “the judge”) and define the judgment procedure.
 - (b) The employee must request for the approval for exceptional measures to the judge by following the formulated procedures. However, the employee can make this request after the fact promptly in the case that the exceptional measure is immediately needed for

executing his or her tasks and the immediate taking of alternative measures that are not provided for in the information security rules or the violation of the rules are unavoidable. The employee must clarify information including the following:

- (i) Requester information (name, department, contact)
 - (ii) Portion of information security rules which the exceptional measure is requested for (the title of rule and article, etc.)
 - (iii) Period for applying the exceptional measure
 - (iv) Description of the exceptional measure (an alternative measure, etc.)
 - (v) Reporting procedure for terminating the exceptional measure
 - (vi) Reason for requesting the exceptional measure
- (c) The judge must review the request for applying an exceptional measure made by the employee in accordance with the formulated judgment procedure and approve or disapprove the request. Also, when the judge makes a decision, he or she must formulate a request process record including the following information and present it to the chief information security officer.
- (i) Name of the judge (name, title, department, contact)
 - (ii) Request information
 - Requester information (name, department, contact)
 - Portion of information security rules which the exceptional measure is requested for (the title of rule and article, etc.)
 - Period for applying the exceptional measure
 - Description of the exceptional measure (an alternative measure, etc.)
 - Reporting procedure for terminating the exceptional measure
 - Reason for requesting the exceptional measure
 - (iii) Result
 - Approved or disapproved
 - Reason for approval or disapproval
 - Portion of information security rules which the exceptional measure is approved for
 - Period of the approved exceptional measure
 - Description of the exceptional measure (an alternative measure, etc.)
 - Reporting procedure for terminating the exceptional measure
- (d) The employee must report to the judge who is responsible for the exceptional measure when he or she terminates the approved exceptional measure. However, this reporting is not required if the judge decides so.
- (e) The judge must check whether the requestor has reported terminating the approved exceptional measure on its expiration and instruct the requestor to report it, and take necessary measures. However, this reporting is not required if the judge decides so.
- (f) The chief information security officer must formulate the ledger of request process records for exceptional measures and provide this to the information security auditors on

their request for reference purposes.

2.2 Operation

2.2.1 Education for the Information Security Measures

Compliance Requirements

- (1) Educating the employees about the information security measures
- [BASIC Requirements]
- (a) The head of information security officers must educate the employees about information security rules.
 - (b) The head of information security officers must examine educational contents on information security rules for the employees and formulate educational materials.
 - (c) The head of information security officers must plan and develop the plan to educate on the information security measures and organize its implementation system so that the employees can participate in at least one education program per year.
 - (d) The head of information security officers must plan and develop the contents for education on the information security measures and organize the implementation system so that any employee who starts working or transfers to another department can participate in an educational program at their new workplace within three months.
 - (e) The head of information security officers must establish the system to manage the achievement of participation of the employees on information security measures.
 - (f) The head of information security officers must inform the division/office information security officer of the achievement of participation of each employee on information security measures.
 - (g) The division/office information security officer must advise the employee who has not participated in any educational program for information security measures. In the case that the employee does not take his or her advice, the division/office information security officer must report this to the head of information security officers.
 - (h) The head of information security officers must report the achievement of participation of each employee on information security measures to the chief information security officer and the information security committee once a year.
- [ENHANCED Requirements]
- (i) The head of information security officers must plan the contents for training on the information security measures for the employees, and organize the system regarding the information security rules.
- (2) Participating in the educational programs on information security measures
- [BASIC Requirements]
- (a) The employee must participate in at least one educational program per year on information security measures in accordance with the plan to educate on the information security measures.

- (b) The employee must ask the division/office information security officer how they can participate in an educational program on information security measures at his or her new workplace when they start working or transfer to another department.
- (c) The employee must report the reason to the head of information security officers through the division/office information security officer in the case that he or she cannot participate in an educational program on information security measures for any reason that he or she is not responsible for.

[ENHANCED Requirements]

- (d) The employee must participate in a training program on information security measures in the case that participating in such a training program is formulated in the policy.

2.2.2 Malfunction Handling

Compliance Requirements

(1) Advance Preparation for Possible Malfunction

[BASIC Requirements]

- (a) The chief information security officer must establish the system to prevent the damage from increasing and recover from the malfunction (including incidents and malfunctions. This is hereinafter referred to as “malfunction”) in the case of any malfunctions that can breach information security.
- (b) The head of information security officers must establish the malfunction report procedure that the employee uses to report to the information security officer and notify the procedure to all the employees.
- (c) The head of information security officers must establish the malfunction handling procedure.
- (d) For the information systems that are considered especially important for the tasks, the head of information security officers must prepare the emergency network with information including emergency contacts and means of communication for the responsible information system security officer and the responsible information system security administrator, and message contents

[ENHANCED Requirements]

- (e) The head of information security officers must establish a point of contact to receive information about malfunction from outside the government agency and announce the access to the contact to parties outside the government agency.

(2) Reporting and Taking Emergency Measures on Malfunctions

[BASIC Requirements]

- (a) In the case that the employee comes to know that any malfunction has occurred, he or she must notify the relevant party and report to the information security officer in

accordance with the reporting procedure formulated by the head of information security officers.

- (b) The employee must confirm whether the malfunction handling procedure exists and follow the procedure in the case that he or she can follow it.
- (c) In the case that any malfunction has occurred and no relevant malfunction handling procedure exists or it is unknown whether such a procedure exists, the employee must try to prevent the damage from increasing until they are instructed how to handle it. The employee must follow instructions when he or she receives any.

(3) Cause Investigation and to Prevent the Recurrence of Malfunction

[BASIC Requirements]

- (a) In the case that any malfunction has occurred, the information security officer must investigate the cause of malfunction and prevent the recurrence, then report to the chief information security officer in writing.
- (b) In the case that the chief information security officer receives a report of any malfunction from the information security officers, he or she must examine the malfunction report and take necessary measures to prevent a recurrence.

2.3 Evaluation

2.3.1 Self-assessment of the Information Security Measures

Compliance Requirements

- (1) Formulating an annual plan for self-assessment
 - [BASIC Requirements]
 - (a) The chief information security officer must formulate an annual plan for self-assessment.
- (2) Preparing for the self-assessment
 - [BASIC Requirements]
 - (a) The information security officer must establish the self-assessment form and procedure for each employee.
- (3) Conducting the self-assessment
 - [BASIC Requirements]
 - (a) The information security officer must instruct the employees to conduct self-assessment in accordance with the annual plan for self-assessment formulated by the chief information security officer.
 - (b) The employee must conduct self-assessment using the self-assessment form and procedure instructed by the information security officer.
- (4) Evaluating the result of self-assessment
 - [BASIC Requirements]
 - (a) The information security officer must confirm that the employees have conducted self-assessment and evaluate the results.
 - (b) The chief information security officer must confirm that the information security officer has conducted self-assessment and evaluate the results.
- (5) Making improvements based on the self-assessment
 - [BASIC Requirements]
 - (a) The employee must make any improvements that he or she believes possible within the scope of his or her authority based on the results of self-assessment, then report this to the information security officer.
 - (b) The chief information security officer must evaluate the results of self-assessment as a whole, and instruct the information security officers to make improvements as needed.

2.3.2 Auditing the Information Security Measures

Compliance Requirements

(1) Formulating the audit plans

[BASIC Requirements]

- (a) The head of information security auditors must formulate the annual plan for information security audit and gain approval from the chief information security officer.

(2) Instructing the information security audit

[BASIC Requirements]

- (a) The chief information security officer must instruct the head of information security auditors to conduct an audit in accordance with the annual plan for information security audit.
- (b) The chief information security officer must instruct the head of information security auditors to conduct audits that are not defined in the annual plan for information security audit as needed to respond to changes in information security conditions.

(3) Formulating the detailed audit plans

[BASIC Requirements]

- (a) The head of information security auditors must formulate the detailed audit plans in order to conduct audits in accordance with the annual plan for information security audit and the instructions for auditing to respond the changes in information security conditions.

(4) Requirements for the information security auditor

[BASIC Requirements]

- (a) The head of information security auditors must request an information security auditor who is independent from the auditee to perform the audit.
- (b) The head of information security auditors must partly outsource the audit work to a supplier outside the government agency as needed.

(5) Conducting the information security audit

[BASIC Requirements]

- (a) The information security auditor must conduct audits under the directions of the head of information security auditors based on the audit plan.
- (b) The information security auditor must confirm whether the standards of government agency comply with these Standards for Measures.
- (c) In the case that the procedure is formulated as the standards of government agency are introduced, the information security auditor must confirm whether the procedure complies with the standards of government agency.

- (d) The information security auditor must confirm whether the actual operations by the auditee are in compliance with the information security rules.
 - (e) The information security auditor must document audit working papers and keep it for the pre-defined period.
 - (f) The head of information security auditors must formulate the audit report based on the audit working papers and submit it to the chief information security officer.
- (6) Reaction based on the results of the information security audit
- [BASIC Requirements]
- (a) The chief information security officer must instruct the information system security officer in the auditee workplace to react to any problems indicated in the audit report.
 - (b) The chief information security officer must instruct the information system security officers in other departments to investigate whether similar problems exist and to solve them if any if he or she believes that it is highly likely that the departments other than the auditee one pose similar challenges or problems and quick investigation is required based on the audit report.
 - (c) The information security officer must develop the improvement plan for the problems for which resolution is requested by the chief information security officer based on the audit report, and report it to the chief information security officer.
 - (d) The chief information security officer must evaluate the adequacy of existing information security rules and order a review as needed based on the results of the audit.

2.4 Review

2.4.1 Reviewing the Information Security Measures

Compliance Requirements

- (1) Reviewing the information security measures
[BASIC Requirements]
 - (a) The person who established the information security rules must consider whether reviewing the rules is required as need arises and if it is required, then he or she must review them.
 - (b) In the case that the employee finds any challenges or problems posed by the information security measures they take, he or she must review the relevant measures.

Chapter 3 Measures for Information

3.1 Information Classification

3.1.1 Classifying the Information

Compliance Requirements

(1) Classifying the information

[BASIC Requirements]

- (a) The information security committee must establish the procedure to label the classification and markings, and the standards for classification and marking in terms of confidentiality, integrity, and availability of electronic records and confidentiality of written documents for the information used in the tasks.

3.2 Information Handling

3.2.1 Creating and Obtaining Information

Compliance Requirements

- (1) Prohibiting creation or obtainment of Information for non-business purposes
[BASIC Requirements]
 - (a) The employee must not create or obtain any information from the information systems for the purpose other than executing his or her governmental business

- (2) Classifying the information on creation or obtainment and considering marking
[BASIC Requirements]
 - (a) In the case that the employee creates information, he or she must classify it based on its confidentiality, integrity, and availability and consider whether marking is required.
 - (b) In the case that the employee obtains and starts to manage the information created by the person outside the government agency, he or she must classify it based on its confidentiality, integrity, and availability and consider whether marking is required.

- (3) Labeling classification and marking
[BASIC Requirements]
 - (a) The employee must label the classification of information in a way that can be understood by the person who is allowed to view it and also label the marking as needed.

- (4) Application of the existing, classification and marking
[BASIC Requirements]
 - (a) The employee must apply the existing classification and marking in the case that he or she quotes any existing information in the new information.

- (5) Changing classification and marking
[BASIC Requirements]
 - (a) In the case that the employee thinks that any information requires re-classification, he or she must consult the person who created or obtained it. If it is required, then the consulted person must re-classify the relevant information appropriately.
 - (b) In the case that the employee thinks that any information requires review of marking, he or she must consult the person who created or obtained it. If it is required, then the consulted person must review the marking of the relevant information appropriately.

3.2.2 Usage of Information

Compliance Requirements

(1) Prohibiting usage for non-business proposes

[BASIC Requirements]

- (a) The employee must not use any information from the information systems for a purpose other than executing his or her tasks.

(2) Handling the information based on classification and marking

[BASIC Requirements]

- (a) The employee must handle information appropriately in accordance with the classification labeled on the information. In the case marking is also labeled beside the classification, the instructions for marking must be followed.

(3) Handling classified information

[BASIC Requirements]

- (a) The employee must not take classified information outside the government agency for the purpose other than executing his or her tasks.
- (b) The employee must not leave classified information unattended.
- (c) The employee must not make copies of confidentiality class-3 information more than necessary.
- (d) The employee must not distribute confidential information more than necessary.

[ENHANCED Requirements]

- (e) For confidentiality class-3 information, the employee must clearly indicate the period during which it should be treated as confidentiality class-3 information. Even during this period, in the case that the employee thinks changing it to a lower classification is required, he or she must take the steps required for re-classification.
- (f) The employee must give a serial number on the written document in which confidentiality class-3 information is printed and clarify where it is kept.

3.2.3 Maintenance of Information

Compliance Requirements

(1) Maintaining the information based on classification

[BASIC Requirements]

- (a) The information system security officer must provide appropriate access control on classified information stored in the computers.
- (b) The employee must manage the external storage media appropriately in accordance with the classification of the information stored.
- (c) The employee must appropriately manage the written documents containing

information that is input into or output from the information systems containing confidential information or important specifications.

- (d) The employee must consider whether encryption is required in the case that he or she stores confidential information in the computers or the external storage media and if it is required, then he or she must encrypt it.
- (e) The employee must consider whether performing an electronic signature is required in the case that he or she stores critical information on the computer or external storage media and if it is required, then he or she must perform an electronic signature.
- (f) For electronic records or important specifications which are critical information or vital information, the employee must consider whether making a back-up or copy is required and if it is required, then he or she must make a back-up or copy of them.
- (g) For back-ups or copies of electronic records or important specifications which are critical information or vital information, the information system security officer must consider whether contingency planning is required and if it is required, then he or she must take appropriate measures to prevent all sites from being impacted by a disaster.

(2) Information Retention Period

[BASIC Requirements]

- (a) The employee must keep the information stored on computers or external storage media until the retention period expires in the case that such a period is set and delete it without delay in the case that the period does not require extension.

3.2.4 Transfer of Information

Compliance Requirements

(1) Gaining approval and notifying of information transfer

[BASIC Requirements]

- (a) The employee must gain approval from the division/office information security officer in the case that he or she transfers confidentiality class-3 information.
- (b) The employee must notify the division/office information security officer in the case that he or she transfers confidentiality class-2 information.

(2) Selecting between transmitting and transporting the information

[BASIC Requirements]

- (a) The employee must select to transmit or transport the confidential information in consideration of safety and notify the division/office information security officer.

(3) Selecting the transfer means

[BASIC Requirements]

- (a) The employee must select the means to transfer confidential information in consideration of safety and notify the division/office information security officer.

(4) Protecting the printed information

[BASIC Requirements]

- (a) In the case that the employee transports a written document including confidential information, he or she must take appropriate security measures in accordance with the classification of information.

(5) Protecting the electronic records

[BASIC Requirements]

- (a) In the case that the employee transfers an electronic record of confidential information, he or she must consider whether protection by password is required and if it is required, then he or she must set a password for it.
- (b) In the case that the employee transfers an electronic record of confidential information, he or she must consider whether encrypting the information is required and if it is required, then he or she must encrypt it.

[ENHANCED Requirements]

- (c) In the case that the employee transfers an electronic record of confidential information, he or she must encrypt it in a way to provide the encryption strength required, split it into pieces, and transfer it using different routes.

3.2.5 Provision of Information

Compliance Requirements

(1) Releasing the information

[BASIC Requirements]

- (a) The employee must confirm that the information is classified into confidentiality class-1 information when he or she releases the information.
- (b) The employee must take measures to prevent the inadvertent leak of information from added pieces, etc. when he or she releases electronic records.

(2) Providing the information to others

[BASIC Requirements]

- (a) In the case that the employee provides confidentiality class-3 information to the person outside the government agency, he or she must gain approval from the division/office information security officer.
- (b) In the case that the employee provides confidentiality class-2 information to the person outside the government agency, he or she must notify the division/office information

security officer.

- (c) In the case that the employee provides confidential information to the person outside the government agency, he or she must take measures to make sure that, on the part of that person, the relevant confidential information is treated based on the confidentiality category set by the government agency the employee belongs to.
- (d) In the case that the employee provides electronic records, he or she must take measures to prevent inadvertent leak of information from added pieces, etc.

3.2.6 Deleting of Information

Compliance Requirements

- (1) Deleting the electronic records

[BASIC Requirements]

- (a) In the case that the employee disposes of computers, communication equipment, and external storage media, he or she must make all the information difficult to restore by using data erasing software or devices, or by physically or magnetically destroying it.
- (b) In the case that the employee provides the computers, communication equipment, and external storage media to others, he or she must consider whether making the stored information difficult to restore is required, and if it is required, then he or she must make the confidential information stored on the relevant computers, etc. difficult to restore by using data erasing software or devices in order to minimize the remaining confidential information.

[ENHANCED Requirements]

- (c) The employee must make the confidential information stored on the relevant computers, communication equipment, and external storage media difficult to restore by using data erasing software in order to minimize the remaining confidential information in the case that it is required to do so considering the environment, etc.

- (2) Disposing the written documents

[BASIC Requirements]

- (a) The employee must dispose the written document containing confidential information in a way to make it difficult to restore.

Chapter 4 Measures based on Clarifying Information Security Requirements

4.1 Information Security Functions

4.1.1 Authentication Functions

Compliance Requirements

(1) Introducing the authentication functions

[BASIC Requirements]

- (a) The information system security officer must consider whether authentication is required for every information system. He or she must determine that an information system that handles classified information requires authentication.
- (b) The information system security officer must provide functions for identification and authentication for the information systems for which authentication is required.
- (c) In the case that authentication information must be kept secret, the information system security administrator must manage to keep the authentication information unknown to others for the information systems for which authentication is required.
 - (i) The authentication information must be encrypted in the case that it is stored.
 - (ii) The authentication information must be encrypted in the case that it is communicated.
 - (iii) If the authentication information cannot be encrypted in the case that it is stored or communicated, the user must be notified that it is not encrypted when he or she sets, changes, or provides (enters) authentication information.
- (d) For the information systems for which authentication is required, the information system security officer must establish a function to prompt users to change authentication information periodically in the case that he or she requires such changes to users along with either of the following functions:
 - (i) A function to check whether the users change the authentication information periodically
 - (ii) A function to refuse continued use of the information system in the case that the users do not change the authentication information periodically
- (e) For the information systems for which authentication is required, the information system security officer must establish a function to stop authentication using the relevant authentication information or authentication information storage device or to stop use of information systems using a corresponding identification code in the case that he or she recognizes that the authentication information or authentication information storage device is used or can be used by another party.
- (f) For the information systems for which authentication is required, the information system security officer must establish the following functions in the case that he or she

uses authentication method by knowledge:

- (i) A function to let the users set their own authentication information
- (ii) A function to keep the authentication information set by the users in a state in which other parties cannot know it easily
- (g) For the information systems for which authentication is required, the information system security officer must examine and meet all the applicable requirements in the case that he or she uses an authentication method other than that based on knowledge, ownership, or biological information. Also, he or she must define the requirements including the following for the authentication method to use.
 - (i) Any subject other than the legitimate subject must not be accepted. (prevention of incorrect permission.)
 - (ii) The legitimate subject must not be rejected for any reasons for which it is not responsible. (prevention of false rejection.)
 - (iii) The legitimate subject must not be able to grant or lend its authentication information to other parties easily (prevention of substitution.)
 - (iv) The authentication information must not be easily duplicated (prevention of duplication.)
 - (v) There must be means to invalidate logons individually at the discretion of the information system security administrator (assurance of invalidation.)
 - (vi) The authentication must be available enough to perform the tasks (assurance of availability.)
 - (vii) In the case that any information or device needs to be provided from outside to add new subjects, such information or devices can be sufficiently provided during the life of the information system (assurance of continuity.)
 - (viii) The authentication information must be able to re-issued to the legitimate subject in a secure manner if the authentication information granted to it cannot be used (assurance of re-issuance.)
- (h) The information system security officer must not use the relevant biological information for the purpose other than that agreed by the user in advance if he or she uses authentication method based on biological information. Also, he or she must be careful not to invade the privacy of the user in using the relevant biological information.

[ENHANCED Requirements]

- (i) For the information systems for which authentication is required, the information system security officer must establish a function to perform multiple factors authentication method.
- (j) For the information systems for which authentication is required, the information system security officer must establish a function to notify the information for the last logon to the user who has logged on.
- (k) For the information systems for which authentication is required, the information

system security officer must establish a function to detect or prevent any attempts at illegitimate logon.

- (l) For the information systems for which authentication is required, the information system security officer must establish a function to display a notification about the use of the information system before the user login to the information system.
- (m) For the information systems for which authentication is required, the information system security officer must establish a function to prevent the users from re-using the same authentication information as that previously used in the case that he or she requires periodic changes in authentication information.
- (n) For the information systems for which authentication is required, the information system security officer must establish a function to require that the users logon using an individual identification code before they login using the identification code in the case that the identification code with administrative rights is shared.

(2) Identification code handling by employees

[BASIC Requirements]

- (a) The employee must not use the information system using an identification code other than the identification code granted to him or her.
- (b) The employee must not grant or lend the identification code granted to him or her to any other parties.
- (c) The employee must not leave the identification code that has been granted to him or her in a state in which it can be known by the parties who do not need to know it.
- (d) The employee must notify the information system security administrator in the case that he or she does not need to use the identification code any longer. However, this reporting is not always required if the information system security officer has previously stated that individual reporting is not required.

[ENHANCED Requirements]

- (e) The person who is granted an identification code with administrative rights must use it only when he or she executes the tasks as an administrator.

(3) Authentication information handling by employees

[BASIC Requirements]

- (a) In the case that authentication information is used or can be used by others, the employee must report this to the information system security officer or the information system security administrator immediately.
- (b) In the case that the information system security officer or the information system security administrator receives a report that authentication information has been used or can be used by others, he or she must take necessary measures.
- (c) In the case that the employee uses authentication method based on knowledge, he or she must meet the following requirements

- (i) The employee must keep his or her authentication information unknown to others in handling.
 - (ii) The employee must not tell what his or her authentication information is.
 - (iii) The employee must try to remember his or her authentication information.
 - (iv) The employee must select authentication information that cannot be easily guessed when he or she set it.
 - (v) In the case that the employee is instructed to change authentication information periodically by the information system security administrator, he or she must do so.
- (d) In the case that the employee uses authentication method based on ownership, he or she must meet the following requirements:
 - (i) The employee must take security measures so that the authentication information storage device is not used in an unintended manner.
 - (ii) The employee must not grant or lend his or her authentication information storage device to others.
 - (iii) The employee must manage not to lose the authentication information storage device. In the case that it is lost, he or she must report this to the information system security officer or the information system security administrator.
 - (iv) In the case that the employee does not need to use the authentication information storage device any longer, he or she must return this to the information system security officer or the information system security administrator.

4.1.2 Access Control Functions

Compliance Requirements

(1) Introducing the access control functions

[BASIC Requirements]

- (a) The information system security officer must consider whether access control is required for every information system. He or she must determine that an information system that handles classified information requires access control.
- (b) For the information systems for which access control is required, the information system security officer must establish a function to provide access control.

[ENHANCED Requirements]

- (c) For the information systems for which access control is required, the information system security officer must add a function to provide access control based on the attributes other than those of the user and the group the user belongs to.
- (d) For the information systems for which access control is required, the information system security officer must establish a function to Mandatory Access Control (MAC).

(2) Configuring Access control by the employees

[BASIC Requirements]

- (a) The employee must configure necessary access control using the functions installed on the information system in accordance with the classification and marking of the information stored in the information system.

4.1.3 Administration Functions

Compliance Requirements

(1) Introducing the administration functions

[BASIC Requirements]

- (a) The information system security officer must consider whether administration is required for every information system. He or she must decide that an information system that handles classified information requires administration.
- (b) For the information systems for which administration is required, the information system security officer must establish a function to provide this administration.

[ENHANCED Requirements]

- (c) For the information systems for which administration is required, the information system security officer must establish a function of the least privilege.
- (d) For the information systems for which administration is required, the information system security officer must establish a function to re-issue authentication information automatically.
- (e) For the information systems for which administration is required, the information system security officer must establish a dual locking function.

(2) Granting and managing identification code and authentication information

[BASIC Requirements]

- (a) For the information systems for which administration is required, the information system security officer must decide to approve or disapprove the use of the shared identification code for each information system.
- (b) For the information systems for which administration is required, the information system security officer must clearly establish the procedures for administration including the following:
 - (i) The procedure to validate that the applicant is the legitimate subject if a subject makes a request for administration
 - (ii) The initial distribution procedure and the change manager procedure of authentication information
 - (iii) The setting procedure and the change control procedure for access control information

- (c) For the information systems for which administration is required, the information system security officer must designate a person who is responsible for the administration.
- (d) For the information systems for which administration is required, the person doing administration must issue identification codes and authentication information only to the subject that has gained approval of using the information system.
- (e) In the case that the person doing administration issues an identification code for the information systems for which administration is required, he or she must notify whether it is shared or not to the users. However, a shared identification code may be granted only for the information system where the information system security officer allows the use of it.
- (f) For the information systems for which administration is required, the person dosing administration must grant the identification code with administrative rights only in the case that such identification code is required to execute the business or business responsibilities.
- (g) For the information systems for which administration is required, the person doing administration must invalidate the identification code of an employee in the case that the employee does not need to use it any longer. Also, he or she must check whether unnecessary identification codes exist in the case that he or she adds or deletes an identification code for personnel changes, etc.
- (h) For the information systems for which administration is required, the person doing administration must have the employee return the authentication information storage device provided when the employee does not need to use it any longer.
- (i) For the information systems for which administration is required, the person doing administration must configure access control only in the minimum necessary scope considering the business responsibilities and needs. Also, he or she must check whether inappropriate access control settings exist in the case that he or she adds or deletes an identification code for personnel changes, etc.

[ENHANCED Requirements]

- (j) For the information systems for which administration is required, the person doing administration must grant a single identification code to an employee for a single information system.
- (k) For the information systems for which administration is required, the person doing administration must keep a record of which subject the identification codes have been granted to. In the case that the person doing administration destroys the record, he or she must gain approval from the information security officer in advance.
- (l) For the information systems for which administration is required, the person doing administration must not grant an identification code that has already been granted to one subject to any other subjects.

(3) Applying an alternative measure for identification code and authentication information
[BASIC Requirements]

- (a) For the information systems for which administration is required, in the case that the information system security administrator receives a request for approval of using an alternative measure because the employee cannot use the identification code, he or she must confirm that the applicant is a legitimate user and consider whether the alternative measure is required, and if it is required, then he or she must provide it .
- (b) For the information systems for which administration is required, in the case that the information system security officer or the information system security administrator receives a report of unauthorized use of an identification code, he or she must invalidate the system use with the identification code.

4.1.4 Audit Trail Management Functions

Compliance Requirements

(1) Introducing the audit trail management functions

[BASIC Requirements]

- (a) The information system security officer must consider whether audit trails are required for each information system.
- (b) For the information systems for which audit trails are required, the information system security officer must establish a function to collect the audit trails.
- (c) For the information systems for which audit trails are required, the information system security officer must configure the information system to record necessary information items for each event in order to collect the audit trails.
- (d) For the information systems for which audit trails are required, the information system security officer must define a policy for use in the case that the audit trails cannot be obtained or may be unobtainable and establish a function to handle the situation for the information system as needed.
- (e) For the information systems for which audit trails are required, the information system security officer must provide access control to prevent the obtained audit trails from being deleted, falsified, or accessed illegally and also appropriately manage the audit trails recorded in external storage media or other devices/media.

[ENHANCED Requirements]

- (f) For the information systems for which audit trails are required, the information system security officer must establish a function to aid automatic checking, analyzing, and reporting of the audit trails for the information system.
- (g) The information system security officer must establish a function on the information system to notify any events that indicate possible information security infringement to the monitoring personnel, etc. immediately if such events are found in the obtained

audit trails.

(2) Obtaining and keeping the audit trails by the information system security administrator
[BASIC Requirements]

- (a) For the information systems for which audit trails are required, the information system security administrator must record the audit trails using the function established for the information system by the information system security officer.
- (b) For the information systems for which audit trails are required, the information system security administrator must define the period for which the obtained audit trails are kept and keep it until the period expires, and delete it without delay in the case that the period does not require extension.
- (c) For the information systems for which audit trails are required, the information system security administrator must take a defined measure in the case that the audit trails cannot be obtained or may be unobtainable.

(3) Studying, analyzing, and reporting the obtained audit trails
[ENHANCED Requirements]

- (a) For the information systems for which audit trails are required, the information security officer or the information system security officer must study and analyze the obtained audit trails periodically or as need arises, then take necessary information security measures or report to the head of information security officers or the information security officer.
- (b) In the case that the monitoring personnel receive a notification of any event that indicates a possible security breach, he or she must take a pre-defined measure.

(4) Notifying the users about audit trail management
[BASIC Requirements]

- (a) For the information systems for which audit trails are required, the information security officer or the information system security officer must explain that the audit trails can be obtained, maintained, checked, and analyzed to the information system security administrator and the users in advance.

4.1.5 Assurance Functions

Compliance Requirements

(1) Introducing the assurance functions
[BASIC Requirements]

- (a) The information system security officer must consider whether the assurance measures are required for the information systems that handle classified information.

- (b) For the information systems for which assurance measures are required, the information system security officer must establish the assurance functions.

4.1.6 Encryption and Performing Electronic Signature (including key management)

Compliance Requirements

- (1) Introducing the functions for encryption and performing electronic signature
[BASIC Requirements]

- (a) The information system security officer must consider whether encryption functions are required for the information systems that handle confidential information (except written documents (hereinafter applicable in this section)).
- (b) For the information systems for which encryption is required, the information system security officer must establish a function to provide encryption.
- (c) The information system security officer must consider whether performing an electronic signature is required for the information systems that handle critical information.
- (d) For the information systems for which performing an electronic signature is required, the information system security officer must establish a function to provide an electronic signature.
- (e) For the information systems for which encryption or performing an electronic signature is required, the information system security officer must consider required safety and reliability when he or she selects the algorithm and select the one listed in e-Government Recommended Ciphers List in the case that he or she can select one. However, he or she must select one listed in e-Government Recommended Ciphers List in the case of a new introduction (including upgrading) of the encryption or electronic signature algorithm. In the case that multiple algorithms can be chosen for the configuration, at least one algorithm must be chosen from e-Government Recommended Ciphers List.

- [ENHANCED Requirements]

- (f) For the information systems for which encryption or performing electronic signature is required, the information system security officer must configure the cryptographic module as a component so that it can be replaced.
- (g) For the information systems for which encryption or performing electronic signature is required, the information system security officer must allow for the selection of multiple algorithms.
- (h) For the information systems for which encryption or performing electronic signature is required, the information system security officer must validate whether the selected algorithm is implemented in the software or hardware appropriately.

- (i) For the information systems for which encryption or performing an electronic signature is required, the information system security officer must store the key to use to decrypt the encrypted information (except written documents (hereinafter applicable in this section)) or to perform an electronic signature in the cryptographic module with tamper-resistance in order to protect it from physical attacks by a third party.

(2) Management of encryptions and electronic signatures

[BASIC Requirements]

- (a) For the information systems for which encryption or performing electronic signature is required, the information system security officer must define the generation procedure, expiry date, disposal procedure, updating procedure, and response procedure in the case of exposure for the key to use to decrypt the encrypted information or to perform electronic signature.
- (b) For the information systems for which encryption or performing an electronic signature is required, the information system security officer must define the media and storage location for the key to use to decrypt the encrypted information or to perform electronic signature.
- (c) For the information systems for which performing an electronic signature is required, the information system security officer must provide the information or a measure to validate the electronic signature to the signature verifier.

[ENHANCED Requirements]

- (d) For the information systems for which encryption is required, the information system security officer must define the back-up procedure or the deposit procedure for the key to use to decrypt the encrypted information.
- (e) In the case that the information system security officer decides that an encryption or performing an electronic signature is required, he or she must collect information about the compromise risks of the algorithm selected for the information system as the need arises.

(3) Using the encryption function or performing electronic signature

[BASIC Requirements]

- (a) In the case that the employee transfers confidential information or saves it in an electronic storage media, he or she must consider whether encryption is required and if it is required, then he or she must encrypt it.
- (b) In the case that the employee transfers critical information or saves it in an electronic storage medium, he or she must consider whether performing an electronic signature is required and if it is required, then he or she must perform electronic signature.
- (c) The employee must self-manage the key to use to decrypt the encrypted information or to perform an electronic signature so that it is unknown to others.
- (d) The employee must consider whether making a back-up of the key to use to decrypt

the encrypted information is required in view of confidentiality, integrity, and availability and if it is required, then he or she must make a back-up and provide safety management that is equivalent to that for the original.

4.2 Threats to Information Security

4.2.1 Security Holes

Compliance Requirements

(1) Building the information systems

[BASIC Requirements]

- (a) For computers and communication equipment (except computers and communication equipment without announced security hole information. Hereinafter applicable in this section), the information system security administrator must collect device information required to respond to security holes and put it on a document.
- (b) The information system security administrator must take measures to respond to the announced security holes relating to software used in the computers or communication equipment when such computers or communication equipment are built or start operating.

[ENHANCED Requirements]

- (c) For the information systems that handle vital information, the information system security officer must install computers and communication equipment in a redundant configuration so that the services can continue to be provided without disruption when action is taken in response to security holes.
- (d) The information system security officer must take measures for computers and communication equipment even in the case that there is no information about the announced security holes.

(2) Operating the information systems

[BASIC Requirements]

- (a) The information system security administrator must update the documents that include device information required to respond to the security holes in the case that the configuration of computers and communication equipment has been changed.
- (b) The information system security administrator must obtain information about the announced security holes relating to software used on the computers and communication equipment which he or she is responsible for as need arises.
- (c) The information system security officer must analyze the risks the security holes pose to the information systems using the security hole information obtained, determine the following, and formulate a security hole response plan.
 - (i) Need of response
 - (ii) Response procedure
 - (iii) Temporary workaround procedure in the case that no response procedure exists
 - (iv) Effects of response or temporary workaround procedures on the information systems

- (v) Response implementation schedule
- (vi) Need of response testing
- (vii) Response testing procedure
- (viii) Response testing plan
- (d) The information system security administrator must take measures against security holes based on the security hole response plan.
- (e) The information system security administrator must record the items including date, work description, and worker for the measure against security holes that has been taken.
- (f) The information system security administrator must obtain the security update file in a reliable manner. Also, he or she must validate integrity of the security update file in the case that any validation procedure is provided.
- (g) The information system security administrator must investigate and analyze measures for security holes and software configurations periodically and respond in the case that he or she finds any computers or communication equipment in an inappropriate state.
- (h) The information system security officer must share the obtained information about the security holes and the measures with other information system security officers as needed.

4.2.2 Malware

Compliance Requirements

(1) Building the information systems

[BASIC Requirements]

- (a) The information security officer must define the daily activities including advice to the employees to prevent the presence of malware.
- (b) The information system security officer must install antivirus software, etc. on the computers (except for the computers which do not accept any antivirus software, etc. Hereinafter applicable in this section.)
- (c) The information system security officer must take measures against malware by using antivirus software, etc. for all imaginable routes for the malware.

[ENHANCED Requirements]

- (d) For all the imaginable routes of malware, the information system security officer must install antivirus software etc. from different manufacturers in combination.
- (e) The information system security officer must take measures to prevent malware from spreading by communications.

(2) Operating the information systems

[BASIC Requirements]

- (a) The information system security administrator must try to collect information about malware and decide whether any response is required, and instruct the employees to take measures as needed.
- (b) The employee must not execute the executable files detected as malware by antivirus software or load the data files into any applications.
- (c) The employee must always keep the applications and malware definition files used with antivirus software updated.
- (d) The employee must enable the automatic malware detection function provided by antivirus software, etc.
- (e) The employee must check for malware in all the electronic files using antivirus software, etc. periodically.
- (f) The employee must check whether there is an infection by malware when he or she loads external data or software into the computers or provides data or software externally.
- (g) The employee must try to prevent infection by malware using software security functions.
- (h) The information security officer must examine and review as appropriate how well measures against malware are implemented.

[ENHANCED Requirements]

- (i) The information security officer must establish the system to receive assistance from external experts in the case that the measures against malware that have been taken are insufficient.

4.2.3 Denial of Service Attacks

Compliance Requirements

- (1) Building the information systems

[BASIC Requirements]

- (a) For the information systems which handle vital information (information systems with computers, communication equipment or communication lines accessed via the Internet. Hereinafter applicable in this section,) the information system security officer must use the functions provided on the computers and communication equipment that are necessary to provide services to protect against denial of service attacks.

[ENHANCED Requirements]

- (b) The information system security officer must build the communication equipment and communication line considering that the other services that share communication equipment or communication lines and access to the Internet from the inside can be impacted in the case that a denial of service attack occurs.
- (c) For the information systems which handle vital information, the information system

security officer must identify the monitoring scope and define the monitoring procedure for the computers, communication equipment, or communication lines which suffer denial of service attacks.

- (d) For the information systems that handle vital information, the information system security officer must introduce any countermeasure device necessary to eliminate or mitigate the impact of denial of service attacks on the computers, communication equipment, or communication lines.
- (e) For the information systems that handle vital information, the information system security officer must maintain effective measures to protect against denial of service attacks.
- (f) For the information systems that handle vital information, the information system security officer must install the computers, communication equipment or communication lines that are required to provide services in a redundant configuration.
- (g) For the information systems which handle vital information, the information system security officer must consider that computers and communication equipment alone cannot protect from a denial of service attack caused by large-scale access and establish a response procedure and correspondence procedure in cooperation with the provider of the communication lines which are connected to the Internet when denial of service attacks occur.

(2) Operating the information systems

[ENHANCED Requirements]

- (a) For the information systems that handle vital information, the information system security administrator must monitor the computer, communication equipment, and communication line in accordance with the monitoring procedure and keep a monitoring record.
- (b) For the information systems that handle vital information, the information system security officer must use the above record to improve the techniques to detect denial of service attacks.
- (c) For the information systems that handle vital information, the information system security officer must review the measures against denial of service attacks periodically.

4.3 Security Requirements of Information Systems

4.3.1 Security Requirements of Information Systems

Compliance Requirements

(1) Planning and designing the information systems

[BASIC Requirements]

- (a) The information system security officer must require the person who is responsible for information systems to establish the system to maintain security throughout their lifecycle.
- (b) The information system security officer must decide the security requirements of the information systems.
- (c) The information system security officer must define the measures in purchasing (including leasing) equipment, etc., developing software, configuring the information security functions, protecting against the threats to information security, and handling measures for components of information systems in order to meet the security requirements of information systems.
- (d) In the case that the information system security officer recognizes any important security requirements for the information system to be built, he or she must request for a security target (ST) evaluation and confirmation to the third-party organization for the relevant information system. However, in the case that he or she updates the information system and there are only minor changes in important security requirements in the reviewed security target, such evaluation and confirmation are not always required.
- (e) The information system security officer must define the installation procedure and environmental requirements in terms of information security when the information system he or she has built goes into the operation phase.

[ENHANCED Requirements]

- (f) In the case that the information system security officer recognizes any important security requirements for the information system to be built, he or she must define the required security function for the device and software products to be procured based on the security function designed to meet the requirement. In the case that multiple products meet the function and other requirements, he or she must select one that is certified according to Evaluation and Certification/Validation Scheme under CCRA (Common Criteria Recognition Arrangement) for this security function as a component of the information system.

(2) Building, operating, and monitoring the information systems

[BASIC Requirements]

- (a) The information system security officer must use the information security measures

that have been formulated based on the security requirements to build, operate, and monitor the information systems.

(3) Moving and disposing of the information systems

[BASIC Requirements]

- (a) In the case that the information system security officer moves or disposes of the information systems, he or she must consider whether deleting or saving the information, or disposing or reusing the information systems is required and take appropriate measures in either case.

(4) Reviewing the information systems

[BASIC Requirements]

- (a) The information system security officer must consider as appropriate whether reviewing the information security measures for the information systems is required, and if it is required, then he or she must carry out the review and take appropriate measures.

Chapter 5 Measures for Components of Information Systems

5.1 Facilities and Environment

5.1.1 The secure area where computers and communication equipment are located

Compliance Requirements

- (1) Managing entry and exit

[BASIC Requirements]

- (a) The information system security officer must take measures to prevent suspicious individuals from entering the secure area.

[ENHANCED Requirements]

- (b) The information system security officer must take measures to isolate the secure area from the areas with a different security level physically and limit the location where people can enter or exit.

- (c) The information system security officer must take measures to authenticate the persons who enter the secure area.

- (d) The information system security officer must take measures to authenticate the persons who exit the secure area.

- (e) The information system security officer must take measures to prohibit the authenticated persons from letting unauthenticated persons enter or exit the secure area.

- (f) The information system security officer must establish the procedure to approve the persons who enter the secure area continuously. Also, he or she must establish the document to record information including the person's name, department, approved entry date, entry period, and rationale.

- (g) In the case that there are any changes in the persons who have gained approval of entering the secure area, the information system security officer must update the above document with the changes. Also, he or she must record these changes.

- (h) The information system security officer must take measures to record and monitor all entries to and exits from the secure area.

- (2) Managing the visitors and delivery personnel

[ENHANCED Requirements]

- (a) In the case that there is any visitor to the secure area, the information system security officer must take measures to confirm the name, department, purpose of the visit, and the name and department of the employee who receives the visit.

- (b) In the case that there is any visitor to the secure area, the information system security officer must take measures to record the name, department and purpose of the visit, the name and department of the employee who receives the visit, the date of the visit, and

the time of entry and exit.

- (c) In the case that there is any visitor to the secure area, the information system security officer must establish the procedure by which the visited employee examines whether the visitor may enter the secure area.
- (d) The information system security officer must take measures to limit the area where the visitors can enter.
- (e) The information system security officer must take measures so that the visited employee attends to the visitor in the secure area.
- (f) The information system security officer must take continuous measures to identify the visitors and the persons who have gained approval of entering by appearance.
- (g) In the case that exchange of items with delivery personnel occurs, the information system security officer must set either requirements:
 - (i) Such exchange must be done outside the secure area.
 - (ii) In the case that the delivery personnel enter the secure area, such exchange must be done in the area where computers, communication equipment, external storage media, and documents cannot be touched and the employee must be in attendance.

(3) Securing the computers and communication equipment

[ENHANCED Requirements]

- (a) For the information systems that handle classified information, the information system security officer must isolate computers and communication equipment from other information systems physically and not locate them in the same secure area.
- (b) For the information systems that handle classified information, the information system security officer must take measures to prevent moving the computers and communication equipment to be located and used at a specific location.
- (c) The information system security officer must take measures to protect the computers and communication equipment against illegal operation while the employee is away from them.
- (d) For the information systems that handle confidential information, the information system security officer must take measures to protect the display of computers and communication equipment from others' eyes.
- (e) For the information systems that handle confidential information, the information system security officer must take measures to protect the cables including power cables and communication cables used in the information systems against threats including damage and sniffing.
- (f) For the information systems that handle confidential information, the information system security officer must take measures against information leakage caused by electromagnetic waves.

(4) Managing security in the secure area

[BASIC Requirements]

- (a) The employee must always keep his or her ID badge visible to other employees in the secure area.

[ENHANCED Requirements]

- (b) For the information systems that handle classified information, the employee must bring the items used in the information systems into or out of the secure area after gaining approval from the information system security officer.
- (c) For the information systems that handle classified information, the information system security officer must record the bringing of items into or out of the secure area.
- (d) For the information systems which handle confidential information, the information system security officer must restrict bringing computers, communication equipment, external storage media, and recording devices (including the ones to record voice, video, and image) that are not used in the information systems into the secure area.
- (e) The information system security officer must take measures to monitor the work done in the secure area.

(5) Measures against disasters and malfunctions

[ENHANCED Requirements]

- (a) For the information systems that handle vital information, the information system security officer must take physical measures to protect computers and communication equipment against natural and human-induced disasters.
- (b) For the information systems which handle vital information, the information system security officer must take measures to stop power feeding to the computers and communication equipment as needed as well as assure the security of workers in the case that any disaster or malfunction occurs in the secure area.

5.2 Computers

5.2.1 Common Measures for Computers

Compliance Requirements

(1) Installing the computers

[BASIC Requirements]

- (a) The information system security officer must establish the rule to maintain computer security.
- (b) The information system security officer must establish the document to identify the responsible employees and users of every computer.
- (c) For the computers that handle vital information, the information system security officer must consider and ensure the system capabilities to provide the performance required from the relevant computer in the future.
- (d) The information system security officer must configure the computers so that the users who attempt to login to the computer are authenticated.
- (e) The information system security officer must administer the identification codes of the user who has logged on.
- (f) The information system security officer must take measures to protect the computers against the announced security holes which exist in the operating system and applications running on the computer (except the ones without announced security hole information.)
- (g) The information system security officer must take measures to protect the computers (except for the computers which do not have any antivirus software, etc.) against malware.
- (h) The information system security officer must establish the documents used for the computers.
- (i) For the information systems that handle classified information, the information system security officer must locate the computer in a secure area. However, this is not always required for mobile PCs in the case that he or she gains approval from the information security officer.

[ENHANCED Requirements]

- (j) For the computers that handle vital information, the information system security officer must install the computers that are required to provide services in a redundant configuration.

(2) Operating the computers

[BASIC Requirements]

- (a) The information system security administrator must manage operation of the computers based on the rule to maintain security.

- (b) The information system security officer must review the rule to maintain computer security appropriately. Also, if there is any change to the relevant rule, he or she must record it.
- (c) The employee must not use the computers for the purpose other than executing his or her tasks.
- (d) In the case that the information system security officer has changed the responsible employees or users of the computers, he or she must update the document to identify the new responsible employees or users of the computers. Also, he or she must record such changes.
- (e) The information system security officer must take measures to protect the computers against the announced security holes in order to maintain an appropriate computer security level.
- (f) The information system security officer must take measures to protect the computers against malware in order to maintain an appropriate computer security level.
- (g) In the case that the information system security administrator has changed any computer configuration, he or she must update the documents used for the computers with the changes. Also, he or she must record such changes.

[ENHANCED Requirements]

- (h) The information system security officer must periodically examine the state of each item of software used on the computers within his or her control and make improvements if any computers are found to be in an inappropriate state.

(3) Disposing of the computers

[BASIC Requirements]

- (a) In the case that the information system security officer disposes of the computers, communication equipment, and external storage media, he or she must make all the information difficult to restore by using data erasing software or devices, or physically or magnetically destroying it.

5.2.2 Terminals

Compliance Requirements

(1) Installing the terminals

[BASIC Requirements]

- (a) The information system security officer must define a list of software that may be used for the terminals. However, in the case that it is difficult to list the allowed software, he or she can list the denied software or list both of the allowed and the denied software.
- (b) The information system security officer must enable the protection measures in the

mobile PCs that handle classified information to be used outside the government agency so that they can operate with the same protection measures as the terminals to be used inside the government agency.

- (c) The employee must gain approval from the information system security officer in the case that he or she needs to use a mobile PC.
- (d) The information system security officer must add a function to encrypt the information saved in the internal storage media for mobile PCs that handle confidential information.
- (e) The information system security officer must define the measures to prevent theft for the mobile PCs that handle classified information.

[ENHANCED Requirements]

- (f) The information system security officer must build the information systems using the terminals that do not allow the employees to save the information.

(2) Operating the terminals

[BASIC Requirements]

- (a) The employee must not use any other software than that which he or she is allowed to use on the terminal.
- (b) For the mobile PCs that handle classified information, the employee who uses the mobile PC must take measures to prevent theft.
- (c) For the mobile PCs that handle confidential information, in the case that the employee takes the mobile PCs outside the government agency, he or she must consider whether encrypting the confidential information saved in the internal storage media of the mobile PC is required and if it is required, then he or she must encrypt it.
- (d) The employee must not connect his or her terminal to communication lines other than those to which the information system security officer has given approval for connecting.

[ENHANCED Requirements]

- (e) The information system security administrator must synchronize the terminal time with the standard time in the information systems.

5.2.3 Server Devices

Compliance Requirements

(1) Installing the servers

[BASIC Requirements]

- (a) In the case that the information system security officer maintains the server via a communication line, he or she must consider whether encrypting the sent or received information is required and if it is required, he or she must encrypt it.

- (b) The information system security officer must define the software to be used to provide services and to operate and manage the servers.
- (c) In the case that the information system security officer finds that any server application that is not included in the allowed software is running, he or she must stop the relevant server application. Also, even in the case that the server application is included in the allowed software, he or she must disable the functions that are not used.

[ENHANCED Requirements]

- (d) The information system security officer must uninstall any software that is not included in the allowed software from the servers.

(2) Operating the servers

[BASIC Requirements]

- (a) The information system security officer must confirm the changes in the configuration of servers periodically. Also, he or she must identify the impact of the changes on the servers and take measures.
- (b) The information system security administrator must make a back-up of the information stored in the servers that handle vital information periodically. Also, he or she must manage the media containing the obtained information in a secure manner.
- (c) The information system security administrator must record the information including the date of work, the server, the work description, and the worker for the operation and management of the server.
- (d) The information system security officer must consider whether audit trails are required on the server and if it is required, then he or she must collect it.
- (e) The information system security administrator must synchronize the time of servers with the standard time of the information systems.

[ENHANCED Requirements]

- (f) The information system security administrator must monitor the security state of the servers to detect any events including illegal activities or use.
- (g) For the servers that handle vital information, the information system security administrator must monitor the system status of the relevant server to detect any trouble.
- (h) For the servers that handle vital information, the information system security administrator must balance the load of the servers required to provide services over multiple servers.

5.3 Application Software

5.3.1 Common Measures for Applications provided via Communication Line

Compliance Requirements

(1) Installing the applications

[BASIC Requirements]

- (a) The information system security officer must define the rule to maintain security of the services to be provided via a communication line.

(2) Operating the applications

[BASIC Requirements]

- (a) The information system security administrator must operate and manage the systems daily and periodically based on the rule formulated to maintain security of the services.
- (b) The employee must not use the services that are provided via a communication line for private purposes.

5.3.2 E-mail

Compliance Requirements

(1) Introducing e-mail service

[BASIC Requirements]

- (a) The information system security officer must configure the e-mail servers so that unsolicited bulk e-mail cannot be relayed.

[ENHANCED Requirements]

- (b) The information system security officer must establish a function to authenticate the employees when the e-mail client sends or receives messages to or from the e-mail server.

(2) Operating e-mail service

[BASIC Requirements]

- (a) In the case that the employee sends or receives e-mail messages that contain information that is related to business, he or she must use the e-mail service provided by the e-mail server that is operated or outsourced by each government agency that he or she belongs to. However, this is not always required if he or she has gained approval for information processing in unsupplied information systems.
- (b) The employee must display any e-mail message he or she receives as text in the e-mail client.

5.3.3 Web

Compliance Requirements

(1) Introducing the Web

[BASIC Requirements]

- (a) In the case that the users enter strings, etc. in the services provided using the Web servers, the information system security officer must sanitize input data.
- (b) The information system security officer must build the information systems so that the Web servers do not send to the Web clients any information that could be utilized in attacks.
- (c) For the information systems which handle confidential information, the information system security officer must identify the information to protect against sniffing, consider whether encryption is required, and if it is required, then he or she must encrypt the information for the services provided using the Web servers.

[ENHANCED Requirements]

- (d) For the information systems that handle confidential information, the information system security officer must identify the information to be stored on the Web servers and confirm that the relevant servers do not contain any confidential information.
- (e) The information system security officer must use the digital certification to ensure the validity of Web servers.

(2) Operating the Web

[BASIC Requirements]

- (a) In the case that the employee downloads software to the computers on which a Web client is running, he or she must confirm the source of the software using an electronic signature.

[ENHANCED Requirements]

- (b) The information system security officer must limit the Web pages from outside the government agency that the employees can browse and review the limit periodically.

5.4 Communication Lines

5.4.1 Common Measures for Communication Lines

Compliance Requirements

- (1) Building communication lines
[BASIC Requirements]
- (a) In the case that the information system security officer builds a communication line, he or she must consider the risks in doing so.
 - (b) For the information systems that handle vital information, the information system security officer must consider and ensure the system capabilities to provide performance required for the relevant communication lines and communication equipment for the future.
 - (c) The information system security officer must establish the documents to be used for the communication lines and communication equipment.
 - (d) The information system security officer must group the computers that are connected with the communication line and separate them on that communication line.
 - (e) The information system security officer must consider the communication requirements among the grouped computers and use the communication equipment and provide access control and route control in accordance with the communication requirements.
 - (f) For the information systems that handle confidential information, the information system security officer must consider whether encryption of the confidential information sent or received using the communication line is required and if it is required, then he or she must encrypt it.
 - (g) For the information systems that handle classified information, the information system security officer must consider security and select physical lines used for the communication line.
 - (h) The information system security officer must ensure security of the connections that are used in the services for remote maintenance or diagnosis work for the communication equipment.
 - (i) The information system security officer must take measures to protect the communication equipment against the announced security holes in the communication equipment.
 - (j) The information system security officer must locate the communication equipment in the secure area.
 - (k) In the case that a private line service provided by a carrier is used, the information system security officer must stipulate the items including security and service levels in the agreement.
 - (l) The information system security officer must consider whether audit trails are required

for the communication equipment and if it is required, then he or she must collect it.

[ENHANCED Requirements]

- (m) The information system security officer must authenticate the communicating computers.
- (n) For the information systems that handle vital information, the information system security officer must install the communication line or communication equipment that is required to provide the services in a redundant configuration.

(2) Operating the communication line

[BASIC Requirements]

- (a) The information system security administrator must manage the information including the identification code of computers that use the communication line, combinations of computer users and user identification codes, and user department of the communication line.
- (b) In the case that the information system security administrator has made any changes in the configurations or settings for items including communication line, communication equipment, access control, or identification code, he or she must update the documents used for the communication line and communication equipment. Also, he or she must record such changes.
- (c) The information system security officer must confirm the configurations or settings for items including communication line, communication equipment, access control, or identification code periodically. Also, he or she must identify the impact of the changes on the security of the communication line and take appropriate measures.
- (d) In the case that security of the information system is difficult to ensure for any reason, the information system security officer must change the communication line from the shared configuration to the independent and closed configuration.
- (e) The employee must not connect computers and communication equipment that are not approved by the information system security officer to the communication line.
- (f) The information system security officer must take measures to protect the communication equipment against the announced security holes to maintain an appropriate security level for the communication equipment.
- (g) The information system security administrator must synchronize the time of the communication equipment with the standard time of the information systems.

(3) Disposing of the communication lines

[BASIC Requirements]

- (a) In the case that the information system security officer disposes of the communication equipment, he or she must make all the information stored in the internal storage media of the communication equipment difficult to restore.

5.4.2 Management of Communication Lines in the Government Facilities

Compliance Requirements

(1) Building the communication lines in the government agencies

[ENHANCED Requirements]

- (a) The information system security officer must take measures to confirm that the computers that are physically connected with the communication equipment have gained approval for connecting with the communication line before they are logically connected with the communication line.

(2) Operating the communication line in the government agency

[ENHANCED Requirements]

- (a) The information system security officer must review the configurations of access control when he or she changes the communication requirements and periodically.
- (b) The information system security officer must check for security holes in the communication line and communication equipment periodically.
- (c) For the information systems that handle vital information, the information system security administrator must confirm and analyze the utilization and state of the communication line daily to measure or detect any degradation or abnormality in the communication line.
- (d) The information system security administrator must monitor the information that is sent or received via the communication line in the government agency.

(3) Measures on the lines

[BASIC Requirements]

- (a) In the case that the information system security officer builds the VPN environment, he or she must consider whether measures including the following are required and if it is required, then he or she must take any of such measures.
 - (i) Establishing the procedures to start or stop using the VPN environment
 - (ii) Encrypting the information
 - (iii) Identifying the communicating computers or authenticating the users
 - (iv) Obtaining and managing the authentication records
 - (v) Limiting the scope of communication lines which are accessible via VPN
 - (vi) Assuring the confidentiality in the VPN connection method
 - (vii) Managing the computers which use VPN
- (b) In the case that the information system security officer builds the wireless LAN environment, he or she must consider whether measures including the following are required and if it is required, then he or she must take any of such measures.
 - (i) Establishing the procedures to start or stop using the LAN environment
 - (ii) Encrypting the information

- (iii) Identifying the communicating computers or authenticating the users
- (iv) Obtaining and managing the authentication records
- (v) Limiting the scope of communication lines which are accessible via wireless VPN
- (vi) Prohibiting connection with another communication line while connecting with the wireless LAN
- (vii) Assuring the confidentiality in the wireless LAN connection method
- (viii) Managing the computers which connect with the wireless LAN
- (c) In the case that the information system security officer builds the remote access environment via the public telephone network, he or she must consider whether measures including the following are required and if it is required, then he or she must take any of such measures.
 - (i) Establishing the procedures to start or stop using the remote access environment
 - (ii) Identifying and authenticating the communicating users or caller numbers
 - (iii) Obtaining and managing the authentication
 - (iv) Limiting the scope of communication lines which are accessible by remote access
 - (v) Prohibiting connecting with another communication line while accessing remotely
 - (vi) Assuring confidentiality in the remote access method
 - (vii) Managing the computers which access remotely

5.4.3 Connecting with Communication lines outside the Government Agency

Compliance Requirements

- (1) Connecting the communication lines inside the government agency and the communication lines outside the government agency
 - [BASIC Requirements]
 - (a) The information system security officer must gain approval from the information security officer to connect a communication line inside the government agency with a communication line outside the government agency.
 - (b) In the case that the information security officer decides that the security of the information systems cannot be ensured when the communication line in the government agency is connected with a communication line outside the government agency, he or she must change the communication line inside the government agency or the communication line outside the government agency from the shared configuration to the independent configuration.
 - (2) Operating a communication line inside the government agency which is connected with a communication line outside the government agency

[BASIC Requirements]

- (a) In the case that the information system security officer decides that security of the information systems cannot be ensured when a communication line in the government agency is connected with a communication line outside the government agency, he or she must change the communication line inside the government agency or the communication line outside the government agency from the shared configuration to the independent configuration.
- (b) The information system security officer must review the configurations for access control when he or she changes the communication line and periodically.
- (c) The information system security officer must periodically check for security holes in the communication lines in the government agency and communication equipment that can be communicated from the communication lines outside the government agency.
- (d) For the information systems that handle vital information, the information system security administrator must confirm and analyze the utilization and state of communication lines daily to measure or detect degradation or abnormality in the communication line.
- (e) The information system security administrator must monitor the information that is sent or received via the communication lines in the government agency.

Chapter 6 Measures for Individual Consideration

6.1 Information Security Measures for Procurement and Development

6.1.1 Purchasing the equipment, etc.

Scope

This applies to purchases (including leases. This is applicable hereinafter) of the equipment, etc.

Compliance Requirements

- (1) Establishing the mechanism to ensure information security in the government agency
[BASIC Requirements]
 - (a) The head of information security officers must formulate the selection criteria and the requirements for the equipment, etc. and review them appropriately.
 - (b) The head of information security officers must formulate the confirmation and test procedure for the equipment, etc. in terms of information security measures.

- (2) Following the procedures for purchasing the equipment, etc.
[BASIC Requirements]
 - (a) In the case that the information system security officer selects the equipment, etc., he or she must consider whether the equipment, etc. meets the selection criteria and the requirements for the equipment, etc. in order to make a selection.
 - (b) In the case that the equipment, etc. is delivered, the information system security officer must confirm that the delivered equipment, etc. meets the selection criteria and the requirements for the equipment, etc. and add the confirmation to the inspection.
 - (c) The information system security officer must consider whether maintenance and check-up in terms of information security measures is required after the equipment, etc. is delivered, and if it is required, then he or she must clarify the maintenance and check-up requirements and sign an agreement with the manufacturer of the equipment, etc. or other service provider.
 - (d) In the case that there are required specifications for security functions to satisfy the security requirements and the purchase is made by comprehensive evaluation of bidders, the information system security officer must select the equipment, etc based on whether it is certified according to Evaluation and Certification/Validation Scheme under CCRA (Common Criteria Recognition Arrangement).

6.1.2 Outsourcing

Scope

This is applied to the information processing tasks out of the job functions provided based on section 29 of the accountancy law which stipulates leases, contracts, and other agreements, including:

- Information processing such as compiling statistics, aggregation, entering data, and media conversion
- Building the information systems (including software development, operation, ASP service, maintenance, upgrade)
- Other examination and investigation
- Leasing the items (including device expansion, maintenance, server rental, housing)

Compliance Requirements

(1) Establishing the mechanism to ensure information security in the government agency

[BASIC Requirements]

- (a) The head of information security officers must establish the criteria to determine the scope of information systems that can be outsourced and the scope of information assets that may be accessed by the contractors.
- (b) The head of information security officers must decide the selection procedure, selection criteria, and requirements for contractors (including implementation of information security measures by contractor personnel)

[ENHANCED Requirements]

- (c) The head of information security officers must establish the procedure to evaluate the information security level of the contractor based on the international standards in order to select a contractor more stringently.
- (d) In the case that the head of information security officers selects a contractor, he or she must confirm the information security level of the candidate contractors that meet the information security requirements in accordance with the above evaluation procedure.

(2) Establishing the Information Security Measures to be applied to the contractors

[BASIC Requirements]

- (a) The information system security officer must formulate the information security measures that the contractor must implement in the outsourced work and notify the contractor in advance.
- (b) The information system security officer must formulate the response procedure in the case information security is violated in contracted work and notify the candidate contractors in advance.
- (c) The information system security officer must establish a procedure to evaluate how well the information security measures are implemented by the contractor and notify the response procedure in the event of poor implementation to the candidate contractors.

(3) Following the procedure to select the outside contractor

[BASIC Requirements]

- (a) The information system security officer must select the contractor based on the formulated procedure, criteria, and requirements of contractor.

(4) Following the procedure to outsource works

[BASIC Requirements]

- (a) The information system security officer must sign an outsourcing agreement with the contractor that stipulates implementation of the information security measures in the contracted work, nondisclosure (including prohibiting use of information for non-business purposes), response procedures in the case of information security breaches or poor implementation of information security measures. Also, he or she should include the following items in the agreement as needed:
 - (i) To enforce the contractor to undergo the information security audit
 - (ii) To enforce the contractor to guarantee to meet the service level agreement
- (b) The information system security officer must clarify the responsibilities of both parties for the outsourcing agreement, build consensus, and request the contractor to present the confirmation note about how the information security measures will be implemented and managed. Also, he or she must include the following description in the confirmation note as needed:
 - (i) The contractor personnel shall (perform specific actions) in order to implement the information security measures.
 - (ii) The contractor shall identify the personnel who engage in the outsourced work and prohibit other personnel from engaging in the work
- (c) The information system security officer must judge whether to renew the outsourcing agreement based on the procedure, criteria, and requirements for the contractor on a case-by-case basis but must not take the decision to renew lightly.
- (d) The information system security officer must consider whether to change the services that are provided by the contractor (including maintaining and improving the basic policy for information security, operation procedures, and management procedure) based on the procedure, criteria, and requirements for the contractor.
- (e) The information security officer must prohibit the contractor from subcontracting all or part of the outsourced work to a third party. However, this is not always required if the information system security officer receives explanations from the contractor and decides that information security is ensured measures to be taken to protect against the potential dangers from subcontracting.
- (f) The employee must provide the required minimum information to the contractor and meet the following requirements in the case that the contractor handles any confidential information:
 - (i) In the case that the employee transfers information to the contractor, he or she

must do so in a secure manner by masking any unnecessary parts or encrypting, etc. and keep a record of the transfer.

- (ii) In the case that the contractor does not need information any longer because the outsourced work is complete, etc., he or she must return or dispose of it.

(5) Following procedures to terminate the outsourcing

[BASIC Requirements]

- (a) The information system security officer must confirm the information security measures implemented in the outsourced work when he or she terminates the outsourcing and adds the confirmation to the inspection.

6.1.3 Software Development

Compliance Requirements

(1) Establishing the system for software development

[BASIC Requirements]

- (a) The information system security officer must require the person who is responsible for information systems to establish the system for software development designed to comply with the information security measures (to meet the compliance requirements of (2) to (5).)
- (b) In the case that the information system security officer outsources software development, he or she must select necessary information security measures (or the compliance requirements of (2) to (5)) that should be implemented by the contractor and ensure that such implementation is assured by the contractor.

(2) Starting software development

[BASIC Requirements]

- (a) The information system security officer must define the procedure and environment for each phase of software development in terms of information security.
- (b) The information system security officer must consider whether separating the information system that is used for software development and testing from the operating information system is required in terms of information security and if it is required, then he or she must separate them.

(3) Designing the software

[BASIC Requirements]

- (a) The information system security officer must consider whether any security function is required, and if it is required, then he or she must design the function appropriately and clearly describe it in the design document based on the analysis of measured

dangers connected with the information assets to be used in the operation of the software to be developed and the classification of information that is handled by the software.

- (b) The information system security officer must consider whether a function to manage the security functions for operation of the software to be developed is required, and if it is required, then he or she must design the function appropriately and clearly describe it in the design document.
- (c) The information system security officer must define the scope and procedure of review to confirm the validity of information security in software design and review it accordingly.
- (d) The information system security officer must consider whether a function to confirm the validity of information security in the data processed or input-output by the software to be developed is required and if it is required, then he or she must design the function appropriately and clearly describe it in the design document.
- (e) In the case that there are any important security requirements for the software to be developed, the information system security officer must request a security target (ST) evaluation and confirmation by the third-party organization for the purpose of the design of security functions to meet them. However, in the case that he or she undergoes the ST evaluation and confirmation for the information system that contains the relevant software and he or she updates the software and there are only minor changes of important security requirements in the reviewed security target, such evaluation and confirmation are not always required.

(4) Developing the software

[BASIC Requirements]

- (a) The information system security officer must protect against unnecessary access and make a back-up of the source code that is formulated by the software developer.
- (b) The information system security officer must define the rule for coding in terms of information security.

[ENHANCED Requirements]

- (c) The information system security officer must define the scope and procedure of review to confirm the validity of the formulated source code and review it accordingly.

(5) Testing the software

[BASIC Requirements]

- (a) The information system security officer must consider whether any testing is required in terms of security, and if it is required, then he or she must define the items and procedure of testing and conduct the test.
- (b) The information system security officer must record the test that is conducted in terms of information security.

6.2 Specific Restrictions

6.2.1 Restrictions on Information Processing outside the Government Facility

Compliance Requirements

(1) Establishing the Security Measures

[BASIC Requirements]

- (a) The head of information security officers must define the procedures on security measures for processing classified information outside the government agency.
- (b) The head of information security officers must define the procedures on security measures for bringing the information systems that handle classified information outside the government agency.

(2) Gaining approval, notifying, and management

[BASIC Requirements]

- (a) In the case that the employee processes classified information (except confidentiality class-2 information) outside the government agency, he or she must gain approval from the information system security officer or the division/office information security officer.
- (b) In the case that the employee processes confidentiality class-2 information outside the government agency, he or she must notify the information system security officer or the division/office information security officer.
- (c) The information system security officer and the division/office information security officer must record processing of classified information that is done outside the government agency.
- (d) In the case that the information system security officer or the division/office information security officer does not receive a report of expiration when the approved period for processing classified information (except confidentiality class-2 information) outside the government agency expires, he or she must confirm the state and take appropriate measures. However, this is not always required if the person who has given approval does not require reporting.
- (e) In the case that the notified period for processing confidentiality class-2 information outside the government agency expires, the information system security officer or the division/office information security officer must confirm the state and take appropriate measures as needed.
- (f) In the case that the employee processes classified information outside the government agency, he or she must process the minimum information required for executing his or her tasks.
- (g) In the case that the employee brings the information systems that handle classified information (except confidentiality class-2 information) outside the government

agency, he or she must gain approval from the information system security officer or the division/office information security officer.

- (h) In the case that the employee brings the information systems that handle confidentiality class-2 information outside the government agency, he or she must notify the information system security officer or the division/office information security officer.
- (i) The information system security officer and the division/office information security officer must record bringing the information systems that handle classified information outside the government agency.
- (j) In the case that the information system security officer or the division/office information security officer does not receive a report of expiration when the approved period for bringing classified information (except confidentiality class-2 information) outside the government agency expires, he or she must confirm the state and take appropriate measures. However, this is not always required if the person who has given approval does not require reporting.
- (k) In the case that the notified period for bringing confidentiality class-2 information outside the government agency expires, the information system security officer or the division/office information security officer must confirm the state and take appropriate measures as needed.
- (l) In the case that the employee brings the information systems that handle classified information outside the government agency, he or she must take the minimum amount of information systems required for executing his or her tasks.

(3) Implementing the Security Measures

[BASIC Requirements]

- (a) The employee must take the security measures that are formulated for processing classified information outside the government agency.
- (b) In the case that the approved period for processing classified information (except confidentiality class-2 information) outside the government agency expires, the employee must report this to the person who has given approval. However, this is not always required if the person who has given approval does not require reporting.
- (c) The employee must take the security measures that are formulated for bringing the information systems that handle classified information outside the government agency.
- (d) In the case that the approved period for bringing the information systems that handle classified information (except confidentiality class-2 information) outside the government agency expires, the employee must report this to the person who has given approval. However, this is not always required if the person who has given approval does not require reporting.

6.2.2 Restrictions on Information Processing Using Information Systems Not Supplied by the Government Agency

Compliance Requirements

(1) Establishing the Security Measures

[BASIC Requirements]

- (a) The head of information security officers must define the procedures on security measures for processing classified information using the information systems not supplied by the government (unsupplied information systems).

(2) Gaining approval, notifying, and management

[BASIC Requirements]

- (a) In the case that processing classified information (except confidentiality class-2 information) using the unsupplied information systems is required, the employee must gain approval from the information system security officer or the division/office information security officer.
- (b) In the case that processing confidentiality class-2 information using the unsupplied information systems is required, the employee must notify the information system security officer or the division/office information security officer.
- (c) The information system security officer and the division/office information security officer must record processing of classified information which is done using the unsupplied information systems.
- (d) In the case that the information system security officer or the division/office information security officer does not receive a report of expiration when the approved period for processing classified information (except confidentiality class-2 information) using the unsupplied information systems expires, he or she must confirm the state and take appropriate measures. However, this is not always required if the person who has given approval does not require reporting.
- (e) In the case that the notified period for processing confidentiality class-2 information using the unsupplied information systems expires, the information system security officer or the division/office information security officer must confirm the state and take appropriate measures as needed.

(3) Implementing the Security Measures

[BASIC Requirements]

- (a) In the case that the employee processes classified information using the unsupplied information systems, he or she must in principle take the security measures that are formulated for the relevant information systems.
- (b) In the case that the approved period for processing classified information (except confidentiality class-2 information) using the unsupplied information systems expires,

the employee must report this to the person who has given approval. However, this is not always required if the person who has given approval does not require reporting.

6.3 Miscellaneous

6.3.1 Preventing actions that lower the Information Security Level outside the Government Agency

Compliance Requirements

- (1) Establishing the measures

[BASIC Requirements]

- (a) The head of information security officers must define the procedures for measures to prevent actions that would lower the level of information security outside the government agency.

- (2) Implementing the measures

[BASIC Requirements]

- (a) In principle, the employee must take measures to prevent actions that would lower the level of information security outside the government agency.

6.3.2 Consistent Operation with the Business Continuity Plan (BCP)

Scope

This applies to the government agencies that establish or will establish a BCP.

Compliance Requirements

- (1) Understanding the preparation plan for a BCP in the government

[BASIC Requirements]

- (a) The chief information security officer must establish the system so that the information security committee is kept regularly informed of a government agency BCP preparation plan via the head of information security officers.
 - (b) In the case that the head of information security officers understands the preparation plan for a BCP in the government agency, he or she must report it to the information security committee, and as needed, to the information security officer, the information system security officers and the division/office information security officers.

- (2) Ensuring consistency between the BCP and the Information Security Measures

[BASIC Requirements]

- (a) In the case that there is any preparation plan for a BCP or the standards for measures implemented by the government agency, the information security committee must ensure the consistency between the BCP and the standards for measures implemented by the government agency.
 - (b) In the case that there is any preparation plan for a BCP in the government agency, the

head of information security officers, the information security officer, the information system security officer, and the division/office information security officer must consider whether each information system is related with the relevant BCP.

- (c) In the case that there is any preparation plan for the BCP in the government agency, the head of information security officers, the information security officer, the information system security officer, and the division/office information security officer must establish the following common procedures based on the BCP and the standards for measures implemented by the government agency for the information systems that they believe are related with the relevant BCP.
 - (i) In order to operate common requirements for the BCP and the standards for measures implemented by the government agency consistently during normal operation, necessary reviews must be conducted for the common procedures in information security measures.
 - (ii) In order to understand the compliance requirements of information security measures that can prevent the BCP and standards for measures implemented by the government agency from being implemented in the case of malfunction and enable consistent operation, the procedures for malfunction handling must be formulated.

(3) Reporting inconsistency between the BCP and the information security rules

[BASIC Requirements]

- (a) In the case that there is any preparation plan for a BCP in the government agency and it is difficult to determine whether a measure should be taken or not because of inconsistent requirements between the BCP and the information security rules, the employee must notify the relevant parties and, in order to receive further instructions, report this to the information security officer using the reporting procedure for malfunction handling which the head of information security officers has established.