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Note:

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SECTION 1 Government Information Security Management System

- Drafted by Yusuke Tanaka, JICA Expert - Edited by ICT Security Management Technical Team (iSMTT).





Government Information Security Management System

The Project of Capacity Development on ICT Management at NiDA

H.E. CHEA MANIT, Deputy Secretary General Mr. TANAKA YUSUKE, JICA Expert November, 2008

Government
Information Security Management System
(GISMS)
Development Project
Introduction

Government Information Security Management System (GISMS) is for Royal Government of Cambodia to secure information used in its business operations, to ensure the administration continuity in Royal Government of Cambodia and to minimize the risk of damage by preventing security incidents and reducing their potential impact. GISMS has the following characteristics;

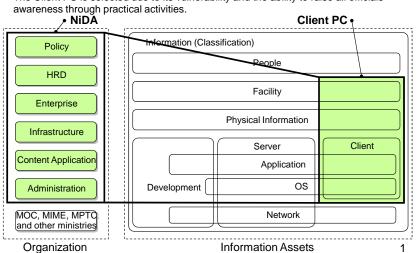
- Based on the best practices of global standard ISO/IEC27001
 - Accumulation of good practices and knowledge of information security
 - Ease of adoption of ISO/IEC27001 to any organization because of its applicability of tasks stipulated
 - Continuous revision
- Process-based
 - Applicable regardless of organization's structure
 - Applicable regardless of organization's size and/or nature
- PDCA approach
 - Plan/Do/Check/Action
 - Step by step and spiral evolution



2

GISMS Development Scope

The scope is carefully focused to realize PDCA cycle under the severe time constraint. The Client PC is selected due to its vulnerability and the ability to raise all officials awareness through practical activities.



GISMS Development Project Schedule

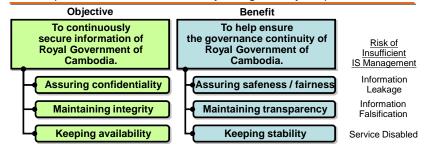
It is scheduled to quickly realize PDCA cycle of ISMS.

It is set up a workshop with other ministries to share the ISMS development experience, and to raise the awareness/necessity of ISMS.

									19-No	V V	
	14Sep W0	21-Sep W1 4wd	28Sep W1 2wd	5Oct W2 5wd	12Oct W3 5wd	19Oct W4 5wd	26Oct W5 3wd	2Nov W6 5wd	9Nov W7 2wd	V	Nov V8 wd
1. Preparation	Define project			Di	. Leewo	od					
2. GISMS Development at NiDA		Plan Establi	sh the I	SMS		mation	eck/		# MS		
3. Discussion to Apply to Other Ministries					equest tendanc	e.	Prep. Worksl	L _v w	orkshop	7	7
4. Finalization						Draft R CD Pla	loadma _l		cuss an		ın

Government
Information Security Management System
(GISMS)

GISMS (Government Information Security Management System) in Brief



Characteristic

- GISMS is based on ISO27001, the global standard.
- Top-Down approach gets GISMS the most effective as the indispensable and mandatory business.
- PDCA (Plan-Do-Check-Action) cycles can gradually enhance information security step by step.
- Government unified ISMS can keep the better level of information security, by researching private and public sectors in Cambodia and by considering the global trends, with the minimum power.

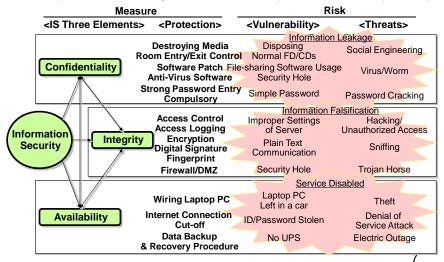
Risk Evidence

• RGC is being increasingly exposed to the cyber attacks of outsiders as it utilizes IT and internet more as identified the notably high ratio of virus infection reaching 35%.

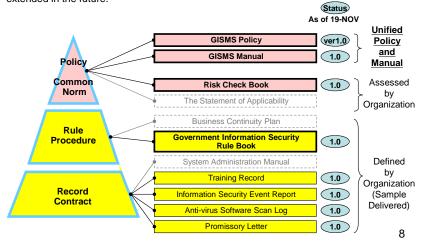
6

Risks and Measures Example

There exist present and clear dangers of information security and it needs to react proactively.



Top two documents will be proposed as the common documents among all government organizations in Cambodia. The preliminary ones are drafted at this project and extended in the future.



GISMS Policy

- The objective of information security is to ensure the administration continuity in the government of Kingdom of Cambodia and to minimize the risk of damage by preventing security incidents and reducing their potential impact. [Policy]
- The goal of ISMS Policy is to protect the information assets in the government of Cambodia against all internal, external deliberate or accidental treats.
- The security policy ensures that
 - Information will be protected against any unauthorized access;
 - Confidentiality of information will be assured;
 - Integrity of information will be maintained:
 - Availability of information for administration processes will be maintained;
 - Legislative and regulatory requirements will met;
 - Information security training will be available for all government officials;
 - All actual or suspected information security breaches will be reported to the Information Security Manager and will be thoroughly investigated.
- Procedures exist and support the policy, including virus control treatments and passwords. Administrative requirements for availability
- Administrative requirements of availability of information and systems will be met.

 The Information Security Manager is responsible for maintaining the policy and providing support and advice during its implementation.
- All managers are directly responsible for implementing the policy and ensuring staff compliance in their respective departments.
- Compliance with the Information Security Policy is mandatory.

The Information Security Manager is responsible for maintaining the policy and providing support and advice during its implementa-All managers are directly responsible for implementing the policy and ensuring staff compliance in their respective departments Compliance with the Information Security Policy is mandatory Secretary General) Date

GISMS Manual Contents

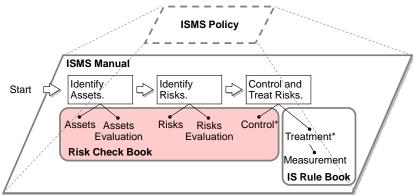
Government Information Security Management System (GISMS) Manual is defined only one among all ministries of Royal Government of Cambodia. The initial version of GISMS manual is focused on Plan (Establish) ISMS. (pink shaded part)

- Introduction
- 2. Scope
- Normative References. Terms and Definition
- **Government Information Security Management System (GISMS)**
- 4.1. Plan (Establish)
- Walkthrough ISMS Policy and ISMS Manual 4.1.1.
- Define the Scope and Boundaries of the ISMS 4.1.2.
- Assess Risks 4.1.3.
- 4.1.4. Define an Information Security Rule Book
- Define the Scope of the ISMS of IS Rule Book 4.1.4.1.
- 4.1.4.2. Identify the non-applicable rule /procedure in a sample rule book
- 4.1.4.3. Modify rules and procedures in a sample rule book
- **4.1.5.** 4.2. Obtain approvals
- Do (Implement and Operate)
- Check (Monitor and Review) 4.3. Action (Maintain and Improve) 4.4.
- Document Control 4.5.
- Record Control 4.6.
- Management Responsibility 5.
- 6. Controls and Treatment

10

Risk Check Book

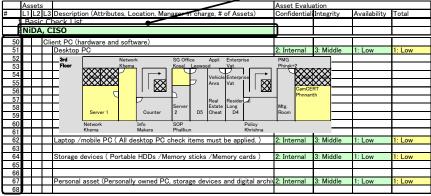
Risk Check Book is applied to all government ministries when to assess their ISMS scope. It contains Assets evaluation, Risks evaluation and Controls.



*Control and Treatment are also called Measure.

Risk Check Book - Step1. Identify Assets

Risk Check Book is applied to all government ministries when to assess their in-scope information assets. First of all, Identify assets. Risk Check Book has 6 default assets. 4 assets out of 6, Facility, Paper, Client PC, and Network & server assets are supposed to be defined by department for each to check by itself. Just copy and insert a group of rows (e.g. #50-68 is a group of rows for Client PC) and fill out whose assets they are It is useful to prepare an office map for the later assessment.



12

Risk Check Book - Step2. Evaluate Assets

Next step is to evaluate assets. There are 3 elements of evaluation, Confidentiality, Integrity and Availability. Select one class of each according to the criteria. Just select one from the pull down menu. Use a default value if you feel difficult to evaluate.

As	sets				Asset Evalu	Asset Evaluation				
L1	L2 L3	Description (Att	ributes, Location,	Manager in charge, # of Assets)	Confidentia	Integrity	Availabilit	Total		
1 B	asic Cl	heck List						1		
2 N	DA, C	ISO .								
0	Cli	ent PC (hardware	e and software)							
1		Desktop PC			2: Internal	3: Middle	1: Low	1: Low		
2					2: Internal			1		
3	1: C	onfidentiality eva	aluation	•	1: General					
4	#	Class	Evaluation	Description	2: Internal 5: Confidentia					
5	C1	1: General	1	Open information assets w	Open information assets which go to public					
6	C2	2: Internal	2	Information used only in a g	overnment busi	ness operat	ion			
7	C3	5: Confidential	5	Confidential among limited	authorized peop	le				
8	Щ									
9		tegrity evaluatio	n							
0	#	Class	Evaluation	Description						
1	I1	1: Low	1	No impact on business con	tinuity by falsific	ation				
2	I2	3: Middle	3	Operational cost impact by	falsification			1: Low		
3	13	5: High	5	Political impact by falsificat	ion			4.		
5	н		•	· ·				1: Low		
3		vailability evalua		·				+		
7	#	Class	Evaluation	Description				1.1		
3	A1	1: Low	1	Out of service allowed over	twenty four ho	urs		1: Low		
3	A2	3: Middle	3	Out of service allowed up t	o twenty four h	ours				
	A3	5: High	5	Out of service allowed up t	o four hours			13		

Risk Check Book - Step2. Evaluate Assets

Then, the spreadsheet automatically display the total evaluation of an asset according to the total points of 3 elements. Review and revise confidentiality, integrity and availability evaluation if you feel a total asset value is different from actual.

	As	sets					Asset Evalu	ation					
#				ributes, Loca	ition, Manag	ger in charge, # of Assets)	Confidentia	Integrity	Availability	Total			
			Check List										
_ 2	Ni	iDA	, CISO										
50	0 Client PC (hardware and software)												
51			Desktop PC				2: Internal	3: Middle	1: Low	1: Low			
52	Н	4: A	sset evaluation (Points = C	onfidential	ity + Integrity + Availability)	•					
53 54		#	Class	Evaluation	Points	Description				 			
55	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					Assets to impact moderate	Assets to impact moderately on an operation						
56		As2	2: Middle	2	7 to 12	Assets to impact enormous	ly on an ope						
57		As3	3: High	3	13 to 15	Assets to impact enormous	ly on an gov		automatio				
58													
59		ш											
60	┡	+											
61		++	Lantan /mahila l	DC (All dool	ton DC ob	eck items must be applied.)	2: Internal	3: Middle	1: Low	1: Low			
63		+	Laptop / mobile i	FC (All desi	COP FO CHE	eck items must be applied.)	Z. Internal	S. Middle	1. LOW	I. LOW			
64		Ħ	Storage devices	(Portable H	IDDs /Mem	ory sticks /Memory cards)	2: Internal	3: Middle	1: Low	1: Low			
65		ΠĪ		,									
66													
67			Personal asset (Personally o	wned PC, s	torage devices and digital archi	2: Internal	3: Middle	1: Low	1: Low			
68													

14

Risk Check Book - Step3. Check Assets

Check assets. Just select Yes or No for each check item.

5: Ch	eck results			
	Class	Evaluation	Description	
Ch1	0: Yes / NA	0	Correct operation	
Ch2	1: No	1	Risk implication	
Check	titem			
Check	Туре	Check its	em	•

Check Type	Check item	Check results
51		1
52 Assignment	Assign one main user at minimum to all PCs.	1: No
53 User ID and password	Use a robust password and change one periodically.	1: No
54 User ID sharing	Prohibit share user ID and password with several people.	1: No
55 Cleared screen	Clear a display screen by setting screen saver function with password.	1: No
56 Anti-virus protection	Scan a local storage with anti-virus software periodically.	1: No
57 Anti-virus protection	Use an automatic virus detection function usually.	1: No
58 Anti-virus protection	Update a virus definition file periodically.	1: No
59 Anti-virus protection	Keep records of scanning and updating virus definitions.	1: No
60 UPS	Connect UPS for all desktop PCs.	1: No
61 Disposal	Execute a physical formatting of a storage, or scrap it physically.	1: No
62		
63 Security wire	Wire all laptop /mobile PCs physically to desks or store at a locked facility.	1: No
64		
65 Anti-virus protection	Scan storage devices with anti-virus software periodically.	1: No
66 Disposal	Execute a physical formatting of a storage, or scrap it physically.	1: No
67		
68 Permission	Get a permission from IS manager to take in/out a personal asset to/from an office.	1: No

Evaluate Threat and Vulnerability to apply the criteria. Total Risk is automatically displayed.

			8: R	isk evaluat	ion (Poir	nts = (As	set + Thr	eat) * Vulnera	ability)		
			#	Class	Ev	aluation	Points	Description			
			R1	1: Low	1		2 to 6	Allowed Risk			
			R2	2: High	2		8 to 24	Non allowed ri	isk which needs c	ontrolled	
F	Dial. E	valuation	_								
6	_							N. 1. 1.111.	ME Si	. 🗇	
51	Threat		Comme	nts on Thre	at			Vulnarability	Total Risk	1 4 1 1	
	2: Mid	JI -	Haras Alas	orized acces	f. .:6:			3: Middle	0. Hint (0t)	/"	
	2: Mid			orized acces				3: Middle	2: High (9pt) 2: High (9pt)		
	2: Mid			orized acces				3: Middle	2: High (9pt)	autom	atic
	2: Mid			orized acces				3: Middle	2: High (9pt)	Lationii	ulio
	2: Mid			orized acces				3: Middle	2: High (9pt)		
	2: Mid			orized acces				3: Middle	2: High (9pt)		
58	2: Mid	dle	Unautho	orized acces	ss, falsifica	ation, malf	unction	3: Middle	2: High (9pt)		
	2: Mid		Unautho	orized acces	ss, falsifica	ation, malf	unction	3: Middle	2: High (9pt)		
	2: Mid			breaker dov	/n			3: Middle	2: High (9pt)		
	2: Mid	dle	Informa	tion leak				3: Middle	2: High (9pt)		
62	0. TL		le codice o								
63	#	reat eva	lluation	Evaluation		Descript					
64		1: Low		_valuation			bability of	the threat			
66		2: Midd	le .	2				of the threat			
	T3	3: High		3			bability of				
68				-		1g.1 p10					
- 00	7: Vı	Inerabili	ty evalu	ation							
	#	Class		Evaluation		Descript	ion				
	V1	1: Low		1		Controlle	ed enough	to secure agains	st a threat		
	V2	2: Fair		2				ortunities to imp			
	V3	3: Midd		3				onally but neede	ed to improve		16
	V4	4: High		4	l	Non con	trolled aga	inst a threat			10

Risk Check Book - Step 5. Decide Controls

All check items evaluated as "High" risks are requested to control them. There are four types, mitigating risks, transferring risks, avoiding risks and (knowingly and objectively) accepting risks.

Generally, they needs to implement rules and procedures to mitigate risks. Therefore, it leads to develop Government Information Security Rule Book. (See the next section.)

After deciding controls and making treatments to risk items (e.g. define rules and procedures in GIS Rule Book), evaluate risks again and make sure all check items get evaluated as "Low". Control

W	۰ ۱	Control		Risk Evaluat	ion after Control	
		Control Contents	References	Threat	Vulnarability	Total Risk
Г	51					
L	52	Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L	53	Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L		Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L		Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L		Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L		Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L	58	Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L	59	Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L		Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L	61	Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
L	62					
Ĺ		Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
Ľ	64					
L	65	Implement Rule and Procedures	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
Ĺ	66	Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
Ľ	67					
Ľ	68	Implement Rules.	GIS Rule Book	2: Middle	1: Low	1: Low (3pt)
						17

Government Information Security (GIS) Rule Book Contents

GIS Rule Book is defined by ministry. The following introduces NiDA GIS Rule Book. It is the specific rule which needs to be done internally and it will be added in the future to get more secured environment. It can be copied and modified for each ministry GIS Rule Book. The initial version of Information Security Rule Book is focused on client PC security. (pink shaded part)

1.	Introduction	6.5.	Client PC Security
2.	Three Basic Rules to Secure Information	6.5.1.	Desktop PC
3.	Scope	6.5.2.	Laptop/Mobile PC
4.	Normative References, Terms and Definition	6.5.3.	Storage Devices (Portable Hard Disk /
4.1.	Normative References		Memory Stick / Memory Card /
4.2.	Terms and Definition		Floppy Disk)
5.	Information Security Organization	6.5.4.	Personal Properties
5.1.	Information Security Organization Definition	6.5.5.	Software
5.2.	ISO Member List	6.5.6.	E-mail
5.3.	Communication Route at Emergency	6.5.7.	Web Browsing
6.	Rule and Procedures	6.6.	Network and Server Security
6.1.	Information Classification		(To be fully defined in a future)
6.2.	People Security (To be defined in a future)	6.6.1.	LAN and Internet
6.3.	Facility Security	6.6.2.	Server Common
6.3.1.	Office Building and Room	6.7.	Application Software Security
6.3.2.	Cabinet and Desk		(To be defined in a future)
6.3.3.	Fax Machine and Printer	7.	Information Security Training
6.4.	Physical Information Security	7.1.	Information Security Training Execution
6.4.1.	Paper	7.2.	Promissory Letter Submission
6.4.2.	Digital Archives (DVD/CD/FD/Tape)	8.	Measurement
	- , , ,	9.	Breach (To be defined in a future)
		10.	Records List 18

Client PC Security Rule - Desktop PC

This page is cited from Government Information Security Rule Book.

Desktop PC

Virus Protection

- (a5) Viruses are a major threat to NiDA and client PCs are particularly vulnerable if their anti-virus software is not kept up-to-date. The virus definition file MUST be updated at least weekly. The easiest way of doing this is simply to log on to the LAN for the automatic update process to run. If you cannot log on for some reason, contact Information Security Office for advice on obtaining and installing anti-virus updates.
- (a6) Always virus-scan any files downloaded to your computer from any source (FD/CD/DVD, USB hard disks and memory sticks, network files, e-mail attachments or files from the Internet). Virus scans must be set to happen automatically. It is also required to initiate scheduled scans at least weekly.
- (a7) Report any information security events (such as virus infections) promptly to <u>Information Security Office</u> in order to minimize the damage.
- (a8) Respond immediately to any virus warning message on your computer, or if you suspect a virus (e.g. by unusual file activity) by contacting Information Security Office. Do not forward any files or upload data onto the network if you suspect your PC might be infected.

Procedure

Virus Detection Handling

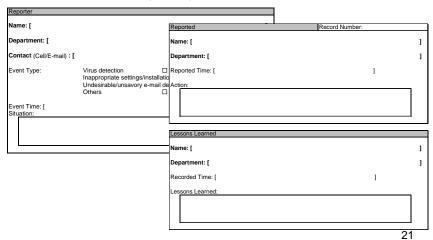
This page is cited from Government Information Security Rule Book.

Step	Description	Owner	Records
b2.1	Detect an information security event such as virus detection.	Official	n/a
b2.2	Physically off-line from a network immediately.	Official	n/a
b2.3	Inform ISO immediately when the event happens.	Official	Information Security Event Report
b2.4	Analyze the effects of an event and take an appropriate action.	ISO	n/a
b2.5	Terminate any network/application services if necessary.	ISO	n/a
b2.6	Execute an emergent anti-virus protection procedure if necessary.	ISO	n/a
b2.7	Record an analysis and an action in a report.	ISO	(Updated) Information Security Event Report
b2.8	File a report and keep for the defined period.	IS In-charge	n/a 20

Records – Information Security Event Report

All information security events should be reported and handled appropriately by the incharge personnel.

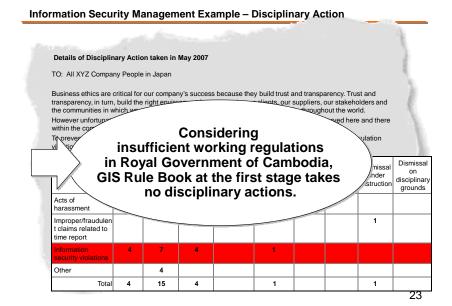
Information Security Event Report



[Rule 1] Always consider whether you acquire, process or save confidential information. Do NOT expose information against any risks of leakage, falsification and inaccessibility.

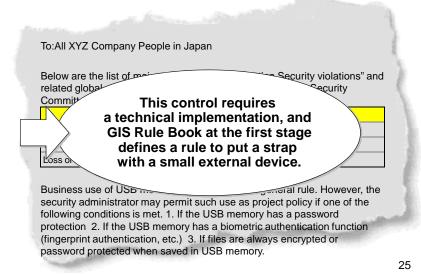
[Rule 2] Lock up an office entrance, a cabinet and a desk drawer before walking away for any moment.

[Rule 3] Activate an auto-detection function of anti-virus software. Update a virus definition file at least weekly. Scan a storage device of your PC weekly and any external storage devices (e.g. FD, Memory Card/Stick and HDD) when to connect to your PC.



To:All XYZ Company People in Japan of its Internet Explorer Microsoft is expected to browser, some upgrade to IE7 on y This control requires client a technical implementation, and GIS Rule Book at the first stage only defines a recommended rule to get an approval from IS Manager. getting in pdate. will be distribute October 25th.

Information Security Management Example – USB Memory Usage Prohibition



To:All XYZ Company People in Japan

As of December 30, 2007, access to specific non-business websites from the office LAN was blocked. $\begin{tabular}{ll} \hline \end{tabular}$

IT department has be investigate recomfiles such

youtube.c

we found large se activities

traffic

This control requires
a technical implementation, and
GIS Rule Book at the first stage only
defines a rule not to access web sites
with inappropriate materials.

Company resources provided in the personal use is acceptable as stated in Policy 57. Excessive personal use is not allowed. Your good sense is expected for the appropriate use of the Company resources. Failure to comply with XYZ Company policies will be reported and disciplinary action may be

26

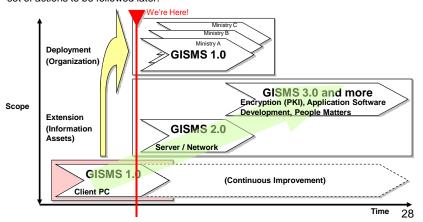
Action Plan

Next Step

This project covers only Client PC at NiDA. Call this project as GISMS 1.0.

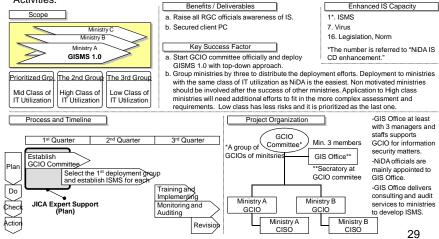
Then, Deployment to other ministries is its repeating actions.

Extend the coverage of information assets such as Server / Network, Encryption (PKI), Application Software Development and People Matters. Business Continuity Plan is another set of actions to be followed later.



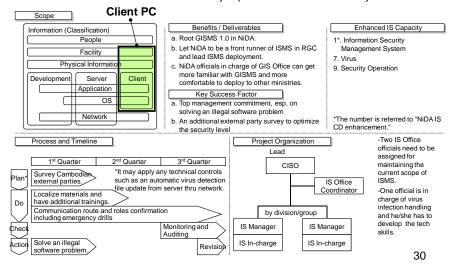
GISMS 1.0 Deployment

Succeeding the GISMS 1.0 implementation at NiDA, it is recommended to deploy the said GISMS 1.0 to all other ministries as part of GCIO (Government Chief Information Officer) Activities.



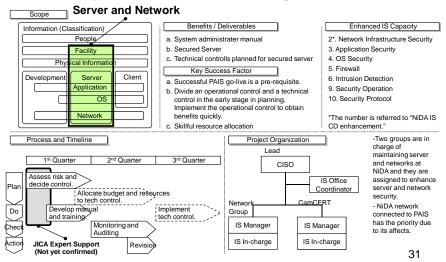
GISMS 1.0 Continuous Improvement

GISMS 1.0 at NiDA needs to be continuously improved as described formerly.



GISMS 2.0 Extension

The next PDCA cycle as GISMS 2.0 is recommended to target on Server and Network.



NiDA Information Security Capacity Development Enhancement

NiDA is to enhance information security capacity according to the defined actions.

	Capacity Category*	Before GISMS	GISMS 1.0 Develop.	GISMS 1.0 Deploy.	GISMS 2.0 Develop.	GISMS 3.0 Develop.
1	Information Security Management System	Level 1	Level 2	Level 3	Level 3	Level 3
2	Network Infrastructure Security	Level 1	Level 1	Level 1	Level 2	Level 2
3	Application Security	Level 0	Level 0	Level 0	Level 1	Level 1
4	OS Security	Level 0	Level 0	Level 0	Level 1	Level 1
5	Firewall	Level 1	Level 1	Level 1	Level 2	Level 2
6	Intrusion Detection	Level 1	Level 1	Level 1	Level 2	Level 2
7	Virus	Level 1	Level 1	Level 2	Level 2	Level 2
8	Secured Programming Techniques	Level 0	Level 0	Level 0	Level 0	Level 0
9	Security Operation	Level 1	Level 1	Level 1	Level 2	Level 2
10	Security Protocol	Level 0	Level 0	Level 0	Level 1	Level 1
11	Authentication	Level 0	Level 0	Level 0	Level 1	Level 2
12	PKI (Public Key Infrastructure)	Level 0	Level 0	Level 0	Level 1	Level 2
13	Encryption	Level 0	Level 0	Level 0	Level 1	Level 2
14	Electronic Signature	Level 0	Level 0	Level 0	Level 1	Level 2
15	Unauthorized Access	Level 1	Level 1	Level 1	Level 1	Level 1
16	Legislation, Norms	Level 1	Level 1	Level 2	Level 2	Level 2

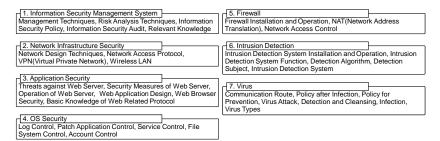
^{*}Capacity categories are defined in Information Security Skill Map Survey of IPA, Mar-2004.

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NiDA Information Security Capacity Category and Level

Capacity category and level* are defined as below.

There are 16 categories and 102 sub categories.



Level Description

Level 0: No knowledge, no experience, Level 1: Understanding a basic knowledge, being able to acquire detailed technical contents through experience, Level 2: Putting an acquired knowledge into practice under supervision, being able to explain a detailed technical

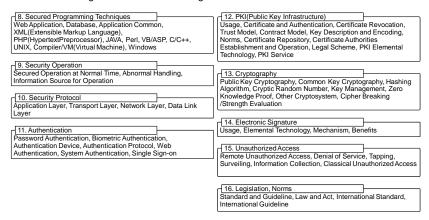
Level 3: Putting knowledge into practice autonomously, being able to use and advise technical know-hows referring to various experiences.

^{*}Capacity category and level are defined in Information Security Skill Map Survey of IPA, Mar-2004.

NiDA Information Security Capacity Category and Level (Con.)

Capacity category and level* are defined as below.

There are 16 categories and 102 sub categories.



^{*}Capacity category and level are defined in Information Security Skill Map Survey of IPA, Mar-2004.

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Key Take-Away

Five points we should know in GISMS:

- 1. Its documents include GISMS Policy, GISMS Manual, Risk Check Book, and GIS Rule Book.
 - a. GISMS Policy declares the top management commitment of implementing GISMS.
 - b. GISMS Manual defines the unified approach of GISMS for all ministries concerned.
 - c. Risk Check Book enables all ministries to assess their risks in the same criteria.
 - d. GIS Rule Book implements GISMS at each ministry.

2. Top management commitment

Top management commitment is indispensable to root ISMS in each ministry.

3. All officials involvement

All officials are strongly expected to set their mindset to keep information security rules and procedures, and do information security related work in their daily operation.

4. Technology utilization

Technology optimizes the information security risk mitigation and partly lessens officials hand work efforts. This will be challenged in the next cycle of ISMS.

5. Continuous improvement

All managers and above are obliged to supervise the implementation of ISMS at their department/group completely with continuous improvement.

Appendix

Nice to Have

Image of Vulnerable Servers Spreading Out Viruses

Assume vulnerable DNS server hacked by unauthorized users from internet.





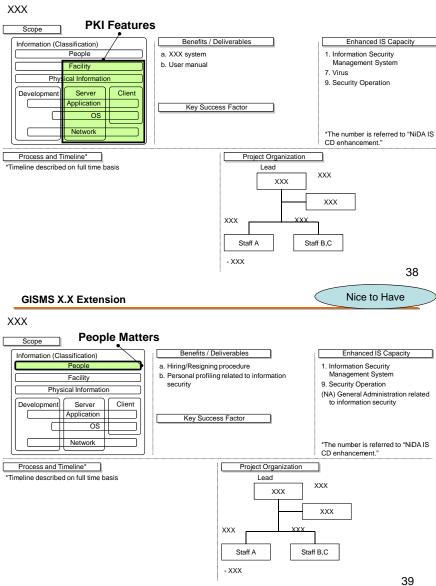


- 1. DNS Server has security holes
- 2. DNS Server hacked by ...
- 3. DNS cache table falsified ...
- 4. LAN user access to Internet
- 5. DNS designates wrong IP address (DNS Spoofing)
 - 6. Malicious site sends malware in HTML.
- 7. Malware successfully hiding unless anti-virus software detects.

13. LAN user gets financial damage.

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- 12. They buy goods paying by fraud credit card information.
- 11. The information is sold to other parties.
- 10. Malware sends the information to xxx site.
- 9. Malware sends the information to their sites.
- 8. Malware search cookies with credit card id/password.



SECTION 2 Government Information Security Management System Policy

Kingdom of Cambodia Government Information Security Management System Policy

[Objective]

· The objective of information security is to ensure the administration continuity in the government of Kingdom of Cambodia and to minimize the risk of damage by preventing security incidents and reducing their potential impact.

[Policy]

- · The goal of ISMS Policy is to protect the information assets in the government of Cambodia against all internal, external deliberate or accidental treats.
- · The security policy ensures that
 - Information will be protected against any unauthorized access;
 - Confidentiality of information will be assured;
 - Integrity of information will be maintained;
 - Availability of information for administration processes will be maintained;
 - Legislative and regulatory requirements will met;
 - Information security training will be available for all government officials;
 - All actual or suspected information security breaches will be reported to the Information Security Manager and will be thoroughly investigated.
- · Procedures exist and support the policy, including virus control treatments, and passwords.
- · Administrative requirements for availability of information and systems will be met.
- · The Information Security Manager is responsible for maintaining the policy and providing support and advice during its implementation.
- · All managers are directly responsible for implementing the policy and ensuring staff compliance in their respective departments.
- · Compliance with the Information Security Policy is mandatory.

Signature

(Title: Secretary General)

Date October 30 49 08

SECTION 3 Government Information Security Management System Manual

- Drafted by Yusuke Tanaka, JICA Expert - Edited by ICT Security Management Technical Team (iSMTT).

1. Introduction

The <u>Government Information Security Management System Manual</u> (GISMS Manual) is defined that Royal Government of Cambodia establishes, implements, checks and takes actions as a body of Government Information Security Management System, under the <u>Government Information Security Management System Policy</u> (GISMS Policy) declared by its Prime Minister, the chief of the government.

2. Scope

GISMS Manual covers all thirty-one government organizations stated as follows;

- 1. The Office of the Council of Ministers,
- 2. Ministry of Agriculture Forestry and Fisheries,
- 3. Ministry of Commerce,
- 4. Ministry of Culture and Fine Arts,
- 5. Ministry of Economy and Finance,
- 6. Ministry of Education Youth and Sports,
- 7. Ministry of Environment,
- 8. Ministry of Foreign Affairs and International Cooperation,
- 9. Ministry of Health,
- 10. Ministry of Industry Mines and Energy,
- 11. Ministry of Information,
- 12. Ministry of Interior,
- 13. Ministry of Justice,
- 14. Ministry of Labor and Vocational Training,
- 15. Ministry of Land Management, Urban Planning & Construction,
- 16. Ministry of National Defense,
- 17. Ministry of Parliamentary Affairs and Inspection,
- 18. Ministry of Planning,
- 19. Ministry of Post and Telecommunication,
- 20. Ministry of Public Works and Transport,
- 21. Ministry of Religions and Cults,
- 22. Ministry of Rural Development,
- 23. Ministry of Social Affairs Veteran and Youth Rehabilitation,
- 24. Ministry of Tourism,
- 25. Ministry of Water Resources and Meteorology,
- 26. Ministry of Women Affairs,
- 27. Municipality of Phnom Penh,
- 28. Secretariat of Public Service,
- 29. Secretariat of Civil Aviation,
- 30.National Information Communications Technology Development Authority (NiDA) and
 - 31. Permanent Mission of the Kingdom of Cambodia to the United Nations.

3. Normative References, Terms and Definition

3.1. Normative References

The following referred documents are indispensable for the application of this document.

<u>ISO/ISE 27001: 2005 Information technology – Security techniques – Information security management systems – Requirements</u>

3.2. Terms and Definition

The followings are the terms and their definitions specifically used in GISMS.

Government Information Security Management System (GISMS):

It is ISMS for Royal Government of Cambodia in this manual. ISMS is referred to ISO/ISE 27001.

Government Information Security Office (GIS Office):

It is set up as a secretary at GCIO Committee and NiDA takes the role of GIS Office as part of its responsibility. It is responsible for setting up the policy, standards and guidelines of GISMS and is also responsible for all ISMS related topics in Royal Government of Cambodia. This definition is a draft. GCIO patronage will be settled in GCIO development project.

Chief Information Security Officer (CISO):

It is assigned to one official by ministry. Responsibilities are explicitly defined in GISMS Manual and Information Security Rule Book.

Information Security Manager (IS Manager):

It is assigned by ministry. Responsibilities are explicitly defined in GISMS Manual and Information Security Rule Book.

Risk Check Book:

It is a check book which identifies information assets, evaluates information assets, checks potential risks, identifies risks and evaluates risks.

Government Information Security Rule Book (GIS Rule Book):

It defines rule and procedures which secures each information asset. It is defined by ministry whereas its sample is developed by NiDA and the sample is highly recommended to apply as the minimum level as required to secure information.

4. Government Information Security Management System (GISMS)

GISMS takes the plan, do, check and action (PDCA) cycle as ISO27001 defines. This chapter defines these processes of GISMS.

It also defines document control and record control.

4.1.Plan (Establish)

Plan process consists of 5 sub processes; walkthrough policy and manual, define the scope of GISMS, assessing risks, develop GIS manual and obtain approvals.

4.1.1. Walkthrough GISMS Policy and GISMS Manual

First of all, read GISMS Policy, which declares the objective and policy of Kingdom of Cambodia GISMS. Walkthrough GISMS Manual (this document), which is applied to all government organizations of Kingdom of Cambodia, and which defines the unified rules to mobilize GISMS.

4.1.2. <u>Define the Scope of the ISMS</u>

When a ministry starts developing ISMS, it needs to define the scope for one cycle of PDCA. It is generally applicable to define the scope by physical facilities, such as a land boundary/building. It is also possible to define the

scope by information system network to effectively decide controls and treatments against threats. It needs careful to scope by organization chart, because it sometimes makes difficult to implement. The initial version of GISMS focuses only on Client PC as the minimum subset of fully-scoped ISMS developed in the future.

4.1.3. Assess Risks

Assess Risks procedure consists of five steps; Identify Information Assets, Evaluate Information Assets, Check Potential Risks, Identify Risks and Evaluate risks. The detailed procedure is defined in Risk Check Book. Please refer to an instruction in Risk Check Book. (See Appendix.1 Risk Check Instruction)

Step.1 Identify Assets

Identify assets. Risk Check Book has 6 default assets. 4 assets out of 6, such as Facility, Paper, Client PC, and Network & server assets are supposed to be defined by department for each to check by itself.

Step.2 Evaluate Assets

Next step is to evaluate assets. There are 3 elements of evaluation, Confidentiality, Integrity and Availability. Select one class of each according to the criteria shown below.

1. 0	1: Confidentiality evaluation						
#	Class	Evaluation	Description				
л С1	1: General	1	Open information assets which go to public				
C2	2: Internal	2	Information used only in a government business operation				
C3	5: Confidential	5	Confidential among limited authorized people				
2: In	tegrity evaluation	n					
#	Class	Evaluation	Description				
I1	1: Low	1	No impact on business continuity by falsification				
I2	3: Middle	3	Operational cost impact by falsification				
13	5: High	5	Political impact by falsification				
	•	,	•				
3: A	vailability evaluat	tion					
#	Class	Evaluation	Description				
Α1	1: Low	1	Out of service allowed over twenty four hours				
A2	3: Middle	3	Out of service allowed up to twenty four hours				
A3	5: High	5	Out of service allowed up to four hours				

The total evaluation of an asset determines the total points of 3 elements. Review and revise confidentiality, integrity and availability evaluation if you feel a total asset value is different from actual.

4: As:	4: Asset evaluation (Points = Confidentiality + Integrity + Availability)								
#	Class	Evaluation	Points	Description					
	1: Low	1	3 to 6	Assets to impact moderately on an operation					
As2	2: Middle	2	7 to 12	Assets to impact enormously on an operation					
As3	3: High	3	13 to 15	Assets to impact enormously on an governing					

Step.3 Check Assets

Check assets. Just select Yes or No for each check item.

(Sample check items of Desktop PC)

- ✓ Assign one main user at minimum to all PCs.
- ✓ Use a robust password and change one periodically.
- ✓ Prohibit share user ID and password with several people.
- ✓ Clear a display screen by setting screen saver function with password.
- ✓ Scan a local storage with anti-virus software periodically.
- ✓ Use an automatic virus detection function usually.
- ✓ Update a virus definition file periodically.
- ✓ Keep records of scanning and updating virus definitions.
- ✓ Connect UPS for all desktop PCs.
- ✓ Execute a physical formatting of a storage, or scrap it physically.

Step.4 Evaluate Risks

Evaluate Threat and Vulnerability to apply the criteria. Each check item has an example of threat in a comment column to easily identify the specific threats.

6: Th	6: Threat evaluation							
#	Class	Evaluation	Description					
T1	1: Low	1	Low probability of the threat					
T2	2: Middle	2	Middle probability of the threat					
T3	3: High	3	High probability of the threat					
7: Vı	7: Vulnerability evaluation							
#	Class	Evaluation	Description					
V1	1: Low	1	Controlled enough to secure against a threat					
V2	2: Fair	2	Controlled but opportunities to improve					
V3	3: Middle	3	Controlled proportionally but needed to improve					
V4	4: High	4	Non controlled against a threat					

The total risk evaluation is determined by the following calculation.

8: Ris	8: Risk evaluation(Points = (Asset + Threat) * Vulnerability)								
#	Class	Evaluation	Points	Description					
R1	1: Low	1	2 to 6	Allowed Risk					
R2	2: High	2	8 to 24	Non allowed risk which needs controlled					

Step.5 Decide Controls

All check items evaluated as "High" risks are requested to control them. Generally, they need to implement rules and procedures to mitigate risks. Therefore, it leads to develop Government Information Security Rule Book. After deciding controls and making treatments to risk items (e.g. define rules and procedures in GIS Rule Book), evaluate risks again and make sure all check items get evaluated as "Low".

4.1.4. <u>Develop a Government Information Security Rule Book</u>

GIS Rule Book is defined by ministry. Based on the results of a risk assessment, the major treatment is to define rule and procedures to mitigate revealed risks. GIS Rule Book must contain the following five components; Scope defined at Scetion.4.1.2 Define the Scope of ISMS, Information Security Organization, Rule and Procedures, Information Security Training, and Measurement for Check and Action. A sample GIS Rule Book for a

ministry is obliged to use, which is issued by GIS office whose role will be described in Chapter.5 Management Responsibility. The following three steps explain the tips to develop GIS Rule Book.

4.1.5. <u>Define the Scope of the ISMS in GIS Rule Book</u>

The scope of ISMS defined at Section.4.1.2 is documented in GIS Rule Book where it is recommended to clarify the information assets and their related physical locations /organizations /officials as their example can be shown in a sample rule book.

4.1.5.1. Identify the non-applicable rule /procedure in a sample rule book

The rules and procedures depend on the information assets and their confidentiality in scope of each ministry. They do not need to be defined unless the targeted information assets exist in the scope.

4.1.5.2. Modify rules and procedures in a sample rule book.

They need to define more secured if the information dealt in a ministry is more confidential according to the results of a risk assessment. They need to add to be defined if a sample rule book does not contain the in-scoped information assets. In the latter case, it is recommended to discuss with GIS Office before starting to define rules and procedures, in order to decide who defines the standard of newly in-scoped information assets of RGC.

4.1.6. Obtain approvals

There are two steps of approvals; one is approved by the top management of ministry and the other is done by GIS office.

Once all steps from section.4.1.1 to 4.1.4 are completed and the risk check book and GIS rule book which includes CISO and IS manager assignment are fully documented, those planning process and documents shall be reviewed and approved by GIS Office first in order to assure the compliance with GISMS

The very exceptional case allows accepting a risk as a residual risk although it exceeds the accepted level in the automated risk evaluation in Risk Check Book. It needs a well organized reasons and decision making to get an approval of GIS Office.

The approval of the top management of ministry is a MUST to implement fully and effectively at the ministry.

4.2.Do (Implement and Operate)

The first thing to do when implementing ISMS at a ministry is to establish ISO. Then, CISO assigns some of ISO members to prepare for and conduct an information security training. The ISMS is a "management" system, therefore, it is recommended higher ranked people get training first, get familiar with ISMS and lead their officials to implement ISMS.

4.3. Check (Monitor and Review)

It needs a long way to go that ISMS is rooted in an organization. Continuous efforts and improvements are required.

In order to grasp the objective status and to discuss any improvements, the

measurement must be installed which are defined in GIS Rule Book.

An internal audit to survey on the effectiveness of implemented ISMS is also requested to find issues to achieve the level of risks in the planning process and/or to review the accepted level of risks. The results of risk evaluation must be updated in Risk

Check

Book.

The frequency of Check and Action must be defined in GIS Rule Book, however, it has to be at least once a year or more.

4.4. Action (Maintain and Improve)

The results of the measurement and the internal audit lead to decide actions to improve the effectiveness of ISMS and optimize the accepted level of risks. Those actions are not only enhancements of rule and procedure but also treatments to install new software/hardware to protect a network/system. The actions may contain to abolish some rule and procedure to match with the change of a ministry role and business operation.

4.5. Document Control

This section defines GISMS document structure, authorization, revision, distribution, access and keeping.

4.5.1. <u>Document Structure and Authorization</u>

GISMS has four major documents;

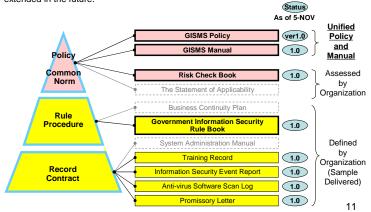
- 1) GISMS Policy
- 2) GISMS Manual

These are drafted by GIS Office, reviewed by GCIO Committee (tentative name until officially established) and authorized by GCIO Chairman (tentative name until officially established). GISMS Policy shall be declared by the top of Royal Government of Cambodia. *The initial version 1.0 is tentatively defined by NiDA with an assistance of JICA*.

3) Risk Check Book

The check items are drafted by GIS Office, reviewed and authorized by GCIO Committee (tentative name until officially established). Risk Check Book blank form contains the default risk evaluation values and controls to be taken. They are assessed and updated by ministry. Put the name of ministry on the document after assessed.

Top two documents will be proposed as the common documents among all government organizations in Cambodia. The preliminary ones are drafted at this project and extended in the future.



4) GIS Rule Book

This is defined by ministry. A sample GIS Rule Book, which is defined based on the default risk evaluation values of Risk Check Book blank form, is drafted by GIS Office. It has to be authorized by the top of ministry. Put the name of ministry on the document.

Other supplementary documents are defined and utilized by ministry.

4.5.2. <u>Document Revision, Distribution, Access and Keeping</u>

Revision

GISMS Policy shall be declared by the top of Royal Government of Cambodia. Hence, its revision procedure is defined by the other rules specified in RGC. (This needs to be specifically determined in a decree system in the future.)

GISMS Manual and Risk Check Book are revised yearly by GIS Office on the basis of comments/ requests from ministries implementing ISMS. The drafted documents are authorized with the same procedures defined in 4.5.1 Document Structure and Authorization.

All other GISMS documents revision is defined by ministry in accordance with PDCA cycle defined in 4.3 Check and 4.4 Action.

GISMS Manual, Risk Check Book and GIS Rule Book must have a revision history to assure which revision readers are referring.

Distribution, Access and Keeping

The confidentiality of GISMS documents varies by document, which is defined as follows;

1. GISMS Policy and GISMS Manual are classified as "general," which

means they can be got published and all Cambodian people can access and read them.

- 2. Non-assessed Risk Check Book contains no identified risks in a ministry and it is classified as "general." On the other hand, After-assessed Risk Check Book contains identified risks (threats and vulnerability), therefore, it is classified as "internal," which requires the careful distribution, access and keeping only in a government business operation.
- 3. GIS Rule Book contains the internal business rule and procedure and it is classified as "internal."

Copies of all revisions of after-assessed Risk Check Book, GIS Rule Book and defined records blank forms must be submitted to GIS Office and it keeps for five years.

All other GISMS documents distribution, access and keeping are defined by ministry. However, it is requested to take carefully deal with handling documents which contain confidential information (e.g. server IP address, personal privacy information).

4.6. Record Control

Records need to be managed for implementing rule and procedures. Control of authorization, revision, distribution, access and keeping of records blank form can be defined in GIS Rule Book.

Generally, records are submitted by the designated officials and filed and reserved by Information Security Office. Keep numbering those records uniquely identified. The period of keeping of all records is defined as one year, otherwise it is specifically defined.

Records often contain confidential information (e.g. server IP address, personal privacy information), and it is requested to take carefully deal with handling.

5. Management Responsibility

5.1. Management Commitment

The top management of Royal Government of Cambodia is responsible for establishing, implementing, monitoring and maintaining ISMS to ensure the administration continuity of Royal Government of Cambodia and to minimize the risk of damage by preventing security incidents and reducing their potential impact under the declaration of GISMS Policy.

Management people are directly responsible for implementing ISMS and especially for ensuring staff compliance in their respective departments.

5.2. Government Information Security Organization

The Ministers of Royal Government of Cambodia shall assign Government Chief Information Officer (GCIO) for each ministry. The top of Royal Government of Cambodia shall establish Government Chief Information Officer Committee (GCIO Committee). Government Information Security Office (GIS Office) is set up as a secretary at GCIO Committee and NiDA takes the role of GIS Office as part of its

responsibility. This clause is a draft. GCIO patronage will be settled in GCIO development project.

The top management of each government organization shall assign Chief Information Security Officer (CISO) and he/she establishes Information Security Office (IS Office).

5.3. Capacity Development

Information security capacities are defined as follows and they are enhanced by the management of GIS Office as a center of excellence.

Information Security Capacity Categories:

- 1.Information Security Management System
- 2. Network Infrastructure Security
- 3. Application Security
- 4.OS Security
- 5.Firewall
- 6.Intrusion Detection
- 7. Virus
- 8. Secured Programming Techniques
- 9. Security Operation
- 10.Security Protocol
- 11.Authentication
- 12.PKI (Public Key Infrastructure)
- 13.Encryption
- 14. Electronic Signature
- 15.Unauthorized Access
- 16.Legislation, Norms

5.4. Management Review

GCIO is required to review all processes of ISMS of all government organizations and GIS Office is authorized to request all government organizations to report their ISMS status.

CISO and IS Office at each government organization is required to operate the equivalent review which fulfills the requirements of GIS Office and of 4.3 Check (Monitor and Review).

6. Control and Treatment

6.1. Types of Control

There are four types, mitigating risks, transferring risks, avoiding risks and (knowingly and objectively) accepting risks.

Mitigating risks is the major control to take against the revealed risks. A PC is vulnerable against a virus intrusion, for instance, Anti-virus software installation and activation is a control to be taken.

Transferring risks is the administratively possible way of control. Assume a PC contains valuable information and it is vulnerable against a fire disaster. Then, the data back up in a remote place is a control of mitigating risks, on the other hand, enrolling a fire insurance and insuring the damage of lost data is a control of transferring risks.

Avoiding risks is the alternative to vanish the source of risks. The previous research collected lots of privacy information which is irrelevant to the main business and it is vulnerable to information leakage, then, disposing the information safely is a control of avoiding risks.

(Knowingly and objectively) accepting risks is the last option. For example, it is widely applied to protect a LAN by setting up a firewall whereas a web server for external users is set up out of a firewall. It is accepted the web server might be attacked from outside although it needs some recovery efforts once an attack happens. Accepting risks has to be very carefully managed and the top management review and authorization is always required.

6.2. Control and Treatment by Information Asset

Most of controls and treatments is a type of mitigating risks. Major controls and treatments are seen in Risk Check Book and a sample GIS Rule Book, respectively. New controls and treatments are preferably in placement by ministry, and they must be clearly reported at the time of GIS Office approval.

Appendix.1 Risk Check Instruction

	ix.1 Risk Check Instruction
INSK OIR	CK DOOK INSUICCION
Risk Check	Book is used in a plan phase of ISMS. Follow the instruction below step by step.
Step 1	Identify assets.
Step 1.1	Walkthrough the assets listed at column C in Risk Check sheet. It defines six types of asset;
	Information, People, Facility, Paper, Client hardware and software, and Network and server.
Step 1.2	Divide assets according to the organization structure.
	Information and People assets are supposed to be defined at ministry level in accordance with the usual governance.
	Facility, Paper, Client hardware and software, Network and server assets are supposed to be defined by department
Ct 1.0	for each to check by itself. Edit column C & D according to the division you made at Step 1.2.
Step 1.3	You can copy & paste an asset by row in order to check by department. However,
	an asset has multiple check items to identify risks. Be careful to copy a group of rows to include all items.
	an asset has multiple check items to identify risks. De careful to copy a group of rows to include an items.
Step 2	Evaluate assets.
Step 2.1	Evaluate confidentiality, integrity and availability to apply the criteria described in Evaluation Table sheet.
	You can select one from a pull down menu in each field at column G, H and I.
	Use a default value if you feel difficult to evaluate.
Step 2.2	Risk Check sheet automatically display the total evaluation of an asset at column J.
	Review the result and check with the criteria listed in Evaluation Table sheet.
	Revise confidentiality, integrity and availability evaluation if you feel a total asset value is different from actual.
Step 3	Check assets.
Step 3.1	Read column L and M, and choose just yes or no at column N.
Step 4	Evaluate risks.
Step 4.1	Evaluate threat and vulnerability to apply the criteria described in Evaluation Table sheet.
3 top 111	You can select one from a pull down menu in each field at column P and R.
	Read the description of each threat at column Q for assistance to decide threat evaluation.
	Use a default value if you feel difficult to evaluate.
Step 4.2	Risk Check sheet automatically display the total evaluation of a risk at column T.
	Review the result and check with the criteria listed in Evaluation Table sheet.
	Revise threat and vulnerability evaluation if you feel a total risk value is different from actual.
	Go to Step 5 if the total risk is High.
	Consider the consistency of ISMS if the total risk is Low
	and make an arrangement if any (e.g. update the existing rulebook or update the control reference at column V.)
Step 5	Decide controls.
	Read the description of default control contents at column U.
	Read the description of sample information security rulebook referred at column V.
Step 5.3	Decide the applicability of implementing the rule and procedures in the sample information security rulebook.
Step 5.4	Decide the alternatives if not applicable. Update the control contents at column U, reference at column V,
step 5.4	
	and the rule and procedures which is applicable and can be implemented to the organization.
Step 6	Evaluate risks after control.
	Evaluate threat and vulnerability to apply the criteria described in Evaluation Table sheet.
	You can select one from a pull down menu in each field at column W and Y.
	Use a default value if you do not change the controls and the rule and procedures in the sample IS handbook.
Step 6.2	Risk Check sheet automatically display the total evaluation of a risk at column AA.
	Review the result and check with the criteria listed in Evaluation Table sheet.
	Revise threat and vulnerability valuation if you feel a total risk value is different from actual.
Step 6.3	Make sure it is preferable to get each total risk classified as Low.
	Decide take additional actions to lessen risks, or describe a residual risk statement to accept.

SECTION 4 Government Information Security Management System Risk Check

- Drafted by Yusuke Tanaka, JICA Expert - Edited by ICT Security Management Technical Team (iSMTT).

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Angets	Describe (Attributes position Manager in charge & of Assets)	Asset Evaluation			Total	Check item		Check results Comments on Check Results
	the Charle is	Common and and	Ш	Part of the same	100	Back To		ш
2 NIDA: CISO	IDA: CISO				Ī	000		i i
<u> </u>	Information							13
	Classification	5: Confident	5: High	5 High	3 High			ı
5						Classification	Dofine the security classification of information.	3
		_			ij	Control	srication 1:	3
-						Protection	thorized access.	ž
						Record	_	8
9	Privacy information	5: Confident 5: High	S. I.	5. X.	3 1			
						Classification	Classify privacy information always as confidential.	ő
=	People							
12	Information security organization	5: Confident 5: High		5: High	3: High			
13						Organization	Define and name information security manager (13 manager).	š
_	Gevernment officials					-to be defined and implemented in the future.	nented in the future.	İ
5					-	Hiring	on security factors when selecting cardidates.	D Yes / NA
5						Orientation	gation.	O Yes / NA
7						Termination		O. Yes / NA
œ.	External parties					-to be defined and implemented in the future.		
19						Accessible gree	ible area for each externe party.	0. Yes / NA
20	Purchasing equipments					-to be defined and implemented in the future.	nented in the future	
21	Outsourcing					to be defined and implemented in the future.	nented in the future.	l
23						Contractor selection	on security factors when selecting contractors.	O Yes / NA
3						Comprect	Define the nendsclosure obligation clearly in a contract.	Yes / NA
24	Software development	_				to be defined and implemented in the future.	mented in the future.	İ
25	Facility							
	Office building	2: Internal 5: High	5: High	5: High	2: Middle			
27						User definition		8
28						Key system	intrance of the facility/room.	8
29						Zoning		
36						Outsiders		ď
3						Emby / exit record	Record an entry and exit.	ĕ
32						Goods shipping record	Keep records of courier service.	ö
33	Cabinet	2: Internal	5 High	5: High	2: Middle			i
2						Cabinet lock-up	Store information assets with confidential information and lock up cabinets.	No.
33	Fax machines and printers	2: Internal 5 High	5 High	5: High	2: Middle			
36					ľ	Disposal	Dispose printed materials/fexed materials with care.	8
37						Faxing record		δ
38	Desk	2: internal	5: High	5: High	2: Middle			
39						Desk lock-up	Lock up dask drawers when leaving	₹
ð						Dasktop clean-up	ly confidential information.	8
	Physical information							
	Paper	2: Internal	5: High	5 High	2 Middle			ĺ
3						Classification	Identify confidential information within each paper/document	몽
2						Protection	red access.	No
5						Disposal)1	¥
5	Digital Archives (DVDs/CDs/FDs/Tapes)	2- Internal	3: Middle	i: Low	- Low			
47	Control of the contro					Classification	Identify confidential information within each archive.	No
						Protection	red access.	No
8		İ	Ī		Ī	Olivera and a second		2
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	Assets		Asset Evaluation			Ω	Check item			
#L	Ļ	L3 Description (Attributes, Location, Manager in charge, # of Assets)	Confidential Integrity	rity Availability	billy Total	Chi		Chack item	Check results Comm	Comments on Chack Results
5	4	Client PC (hardware and software)								
<u>.</u>		12	Internal 3: Middle	ddle 1: Low	1: Low	•				
	-				_		Assignment	Assign one main user at minimum to all PCs.	3	
2	Ξ						password	Use a robust password and change one periodically.	: ₩	
ç.					_		User ID sharing IP	Prohibit share user ID and password with several people.	: No	
					_			Clear a display screen by setting screen saver function with password	1: No	
5				_			ection	Scan a local storage with arti-virus software periodically.	1: No	
,					_		Anti-virus protection L	Use an automatic virus detection function usually.	i No	
ž	П							Update a virus definition file periodically.	I. No	
ي				-	_		Anti-virus protection 8	Keep records of seaming and undating virus definitions.	1: No	
<u>e</u>							UPS C	Connect UPS for all desktop PCs.	- No	
6			_		-	L	094	Execute a physical formatting of a storage, or sorap it physically.	T-No	
62		Laptop /mobile PC (All desktop PC check items must be applied.) [2:	2: Internal 3: Middle	ode 1: Low	1: Low	•				
ę.	Ĺ						Security wire	Wire all laptop / mobile PCs physically to desks or store at a looked faculty.	1: No	
		Storage devices (Portable HDDs /Memory sticks /Memory cards) 2:	Internal 3: M	Middle 1: Low	1: Low					
6	Ì				L	L	Anti-virus protection S	Scan storage devices with anti-virus software periodically.	1· No	
6	Ė					_	Disposel	Execute a physical formatting of a storage, or scrap it physically.	1: No	
67		Personal asset (Personally owned PC, storage devices and digital archit2: Internal 3: Middle	Internal 3: M	iddka 1: Low	i. Low	*				
- 68	_						Permission (Get a permission from IS manager to take in/ out a personal asset to/ from an office	: No	
69		Software	Internal 3: M	Middle 1: Low	- Low	•				
2					_		Installation I	Install software explicitly allowed by IS manager.	1	
,	4						Software configuration (Configure software according to IS managers instruction.	100	
J	Ì			_	_		Patch application /	Apply petches according to IS managers' request.	3	
				L			Mail encryption E	Encrypt to send an e-mail.	: No	
J							Miss-addressing mails F	Mise-addressing mails Report and take appropriate actions when misa-addressing mails.	i No	
,	Ť						Integrity consideration (Consider the integrity of a document and deliver one in PDF format when copying.	No	
	Ì		ŀ				Web downloading [Download a web browser executable only which has an electronic signature.	1: No	

Liliziu	L3 Description (Attributes, Location, Manager in pharge, 9 of Assets)	Asset Evaluation Confidential Integrity	Integrity	Availability	Total	Chack Type	Check itom	Check results Comments on Check Results
77 NiDA	NIDA: GamCERT		Ħ	T		Ħ		
200	Office building	2: Internal	5: High	5 Hgh	2. Middle			
80			Ī	Ī	ľ	User definition	Define those who gan enter the facility/room.	I No
; =		t	Ť	Ì	1	Zoning	Separate an office space and the other accessible common space.	
200		1	1			Outsiders	Get outsiders with an insider attendent	_
24 90		j				Entry /axit record	Record an entry and exit	1: No
85		Ħ		-		Goods shipping record		:- 35
86	Cabinet	2: Internal io: High	O HIGH	O. HIAT	GDDIN 22	Catainet look-up	Store information assets with confidential information and lock up cabinets	ation and lock up cabinets.
200	Far machines and printers	2: Internal	5: Ti	55 High	2: Middle			
89						Disposal	Dispose printed materials/faxed meterials with care.	15
98						Faxing record	Keep record of faxing (sending/receiving).	I: No
9	Dask	2 Internet	5 Kg	5. High	2: Middle			
92				ŀ		Dask lock-up	Lock up desk drawers when leaving	- No
93				-		Desktop clean-up	Leave nothing on a desktop, especially confidential information,	
	Physical information			l				
95	Paper	2: Internal	5 High	5: High	2: Middle	Classic	Identific confidential information within suc	D Yes
		1	Ť			Protection	Save confidential paper/documents in safe spanist unauthorized access	zed access.
9,4		1		1		Oisposal	Use a paper shredder when disposing confidentials. Or burn it by official	
99	Digital Archives (DVDs/CDs/FDs/Tapes)	2: Internal	3: Widdle	I: Low	1: Low			
			Ī			Classification	Identify confidential information within each archive	
			İ	-		Protection	Save confidential archives in sate against unauthorized access	uthonzed access.
ŧ			T	t	Ì	Disposal	Sorate a media (1964) FU/CU/UV/UVU/ physicany	
6	Chent PC (hardward and software)		3. 164	1	1			
ŧ	Desition PG	Z: Johannar	S. MICOIS). Low	. Core	Accommod	Assign one main user at mismum to all PCs.	II No
+		t	1	1	1	User ID and password		
‡		1		1		User ID sharing		opia 1
Ŧ		-				Cleared screen	Clear a display screen by setting screen saver function with pessword	with password
8			ľ			Anti-ying protection	Scan a local storage with anti-virus software periodically	
10			Ì	İ		Anti-virus protection	Use an automatic virus detection function usually	
Ε		l	T	t	t	Anti-ying protection	Update a virus detertion his periodicary.	finitions 11: No
3 8		1	1	+		UPS	Connect UPS for all desktop PCs.	1
4						Disposal	Execute a physical formatting of a storage, or scrap it physically.	crap it physically.
15	Laptop /mobile PC (All desktop PC aheak items must be applied.)	2 Internal	3. Kiddla	1: Low	- Low			
1 6	Control Donate NOD (Name of the Control of the Cont	O Inharma	J. W.Adla	2	-	becomby wire	selve all reproductional successful by Selves or arose are success security	Or account of a located latest A
ā	The state of the s					Arti virus protection	Scan storage devices with anti-virus software periodically.	
119						Disposat	Ш	or sorap it physically. E. No.
120	Personal asset (Personally owned PC, storage devices and digital archite internal	chi2: Internal	3 Middle	I: Low	1. Low			ļ
121					t	Permission	Get a permission from IS manager to take in/out a personal asset to/from an office	n/out a personal asset to/from an office. 1: No
122	Seltware	2: Internal	3: Middle	1: Low	1: Low	Land Hading	increal adjusted evaluation allowed by IS man	arer. 1: No
_		İ	t	t	İ	Configuration Constitution	_	et aloreno
124			t	l		Saffware configuration		National Property of the National Property of
			ĺ	t		Patch application	Apply patches according to 15 managers request.	
126		_	r			Mail encryption	Encapt to send an e-mail.	
127						Miss-addressing mails		
128			Ī	-	-	Integrity consideration		er one in PUF format when copying.
Ì					İ			

Risk Check

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Assets	376	2000	2			4.44			
<u> </u>	L1[L2]L3]Description (Attributes, Location, Manager in charge, \$ of Assets)	Confidential Integrity	Ш	Availability Total		Chack Type	Check item	Chack results Come	Comments on Check Results
2	GAIS								
	Network and server	2- Internal 3	3: MIDDIN S	: Middle 2	2: Middle	1			
160						Firewall	Disconnect an internal network from an external network.	No	Suspended until PAIS integrating GAIS
161								1:Na	
162						nd action	thorized aggless and take actions promptly.	T: No	
63			_			UPS	0.000	7	
164	Server common	2: Internal :	l: Middle (Midde 2	2: Middle				
165					L	Zoning control	Segregate a server room and lock up the room usually.	T No	
6			L			Physical installation	Install servers physically in safe from destruction.	I. No	
67						d	Lock up a server rack from unsuthorized access.	7: No	
68						ċ	Define those who can enter the server room.	i: No	
69						User ID and password	Use a robust password and change one periodically.	1: No	
70						User ID sharing	Prohibit share user ID and password with several people.	1: No	
171						Operation manual		1: No	
172						Data access control	Control data, access appropriately with the access control functions of file/data systems. It No.	T No	
173						Data protection	Encrypt data appropriately in case of a forced attack.	1: No	
74				_		Data back-up			
175						Cion	s in safe against unauthorized access.	I: No	
78						Data recovery	Have a capacity to recover data defined in a service level agreement	t: No	
177						Record	Record a data access and keep it for the defined period of time.	: No	
178						Anti-virus protection	Scan a local storage with anti-virus software periodically.	: No	
179						Anti-virus protection	Use an automatic virus detection function usually.	- No	
8						Anti-virus protection	Undate a virus definition file periodically.	- No	
181							Keep records of scenning and updating virus definitions.	No	
22							Audit records, detect unauthorized access /execution and take actions promptly.	No.	
183						Information gethering	Gather externel security information to take actions projectively.	1: No	
184						Patch application	Apply patiches depending on its emergency and stability.	1: No	
185				_		uPs	Connect UPS for all servers	ď	

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Object Architects Consistent Netwager in charge, 6 of Assess) Confidencial leadarity Assessible, Troyal	Assets	Asset Evaluation	noin noin			Check item		
Secretary Great of Others Secretary Great of Others Secretary Great of Others Secretary Great of New York Secretary	L1L2L3 Description (Attributes, Location, Manager in charge, # of Assets)	Confidential	ı	Availability	Total	Chack Type		reck results Co
Professional Control of Prof	T		- 11		Ī		1000	
Colorest Colorest								
Careers		ŧ I	5. High	5: Iligh	2 Middle			
Colored Colo						User definition		Yes / NA
Content Cont	0					Key system		Yes / NA
Content						Zoning		Yas / NA
Convert Con	2					Outsiders	0.	Yes / NA
Contest Cont	8					Entry / sxit record		No.
Colorest Colorest						Goods shipping record	Keep records of countr service.	8
President and printers Chemist Schele Steel Middle Chemist Schel	Gabinet		5: High		3: High		ш	-
Proposition Control				Ш		Cabinet lock-up		8
Design and effective and effec				5 High	2: Middle			
Dock Decision (Direction Confidence) (Fig. 1 Heb) (Fig. 1						Disposal	0.	Yes / NA
Double D	99					Faxing record		No
Project information. Dies infor	On %	5: Confident			3: High			
Physical information. Physical information.						Desk lock: up	Q	Yes / NA
Physical information Physical information and information adults and paper floration ment and in and paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and in any paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment and paper floration ment floration ment floration ment floration ment floration ment floration ment floration ment floration ment floration ment floration ment floration ment floration floration ment floration ment floration floration me	2 3 1					Desktop clean-up	Q	Yos / NA
Projection Standard Health Standard Health Standard Health Standard Health and paper (Southers) Beat confidential information advises and paper (Southers) Sea confidential paper (Southers) Sea c	-							
Control Cont		5: Confident	5: High	5: High	(3: Hugh			
Diede Archere (DOD/OD/ID4/Date) 2. Enternal 3, Midde 1: Low 1, kew Discussion State confidential popular deconaments in all against numericated excells. Qf Yes AM. Discussion State of Discussion and Enternal State of S						Classification		Yes / NA
Digital Notines (DiDO/Obs/TD/Flats) 2 hinns 3, Middle (1 low 1, low 2 decided and 1 low 2 decided and 1 low 3 decided and 2 low 3 decided and 3 low 3 decided and	5.					Protection		Yes / NA
Clear P.C. (Institute of Control Del Parlament) Parlament Pa						Disposal		Yes / NA
Clear PC (Internal and reference) Controlled Contro			Middle	I: Low	Low			
Gert PC Inversit and coheren) Goodfand Statist. 2 Modes. 3 Modes.					İ	Classification		100
Clear PC (Inchesive and celebrary) Condition(2) Middle 2 Middle 2 Middle Clear Cle					1	Protection	Ahonzed access.	No
Control Processor and comment to all Pol. Conditional Stated Stated	Ī				ĺ	Uisposal		20
Control of Port Control of	Chencistic Discontinues and software)	S. Carriera		3	9 10-64			
Control Cont		0.000	ı					Vac / NA
Clayer Control Control					Ī	ASSESSMENT TO A SECOND	Use a robust password and change one periodically	35
Control of Part Control of					1	Coef to end possing of	One of course personal and categories with several people.	5
After the protection Control and the prot				Ī	Ì	Classed screen	with nassword	S
Control Edward (Percent) control Con						Anti-cons protection	Soon a local strates with anti-virus software periodically	₹ :
Contract District Contract		-			1	Anti-certa protection	les an automatic virte detection function estable	Y4.5 / NA
Liggio /mebble PC (All destrops PC check team must be agailed.) 2. Heigmal. 3. Hidden. 1. Low. Ligne. Lo					Ī	Anti-care protection	Under a second de project de la constant de la cons	Yes/NA
Upper Connect Lief for all desirably DC (4d Sections PC check town must be applied;) 2. Integral 3. Middle 1. Conn. 1. Low Upper Connect Lief for all desirably for deal and physical formating the account of a storage, or scorals distributed by the second of the storage of account of a storage of account of a storage of account of a storage of account of a storage of account of a storage of account of a storage of account of a storage						Anti-vrus protector	Keep records of scanning and updating virus dafinations.	
Linguis / Insight PC (M Settings PC check town mut be agalised.) 2. Internal. 3. Models. 1. Low.						UPS		No
Source Controls PC(off settings PC check that must be applied.) 2 Internal 3 Hidds 1 Low 1 Low Source wine. When all applied processes in a society to settle or store at a society by the Source wine at a society by the Source wine at a society by the Source wine at a society by the Source wine at a society by the Source wine at a society to settle or store at a society to settle at a society to sett						Disposal	1:	No
Storage devices (Partable 10Ds / Memory stotes / Memory stot	Laptop	1 1	П	1: Low	1: Low			
Continue c			l			Security wire		8
Personal antel (Personal connect PC, state and defaul annel 2 internal 3 initials in 1 internal 2 initials in 1 internal 3 initials in 1 internal 3 initials in 1 internal 4 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 initials in 1 internal 5 interna	+		V milesin			Anti virus protection	Scan storage devices with anti-virus software periodically.	No
Person asset (Personal passet (Persona					Ī	Disposal	Execute a physical formatting of a storage or scrap it physically.	8
Educated 3 Modes. In Low Interface on Expension from IS very get table a food a section and flow. It Modes of the Commission from IS very get table a food a section and flow. It Modes of the Commission from IS very get table and the Commission from IS very get table and table a section of the Commission from IS very get table and tabl		- 1-	Model	1.10	i.	0.000		
Colorent Colorent		- 1				Permission	Get a permission from IS manager to take in/out a personal asset to/from an office.	No
Intelligence in the intelligence of the intell		2: Internal	3 Middle	1: low	1: Low			
Software configuration Con						netallation		No.
1 No Parth application		1	1	1		Software configuration	Configure software according to IS managers instruction.	No
Mass advantage and Experted to devide a strong when make a control in the local Mass advantage and the strong when make a control in the local Mass advantage and the strong when make a control in the local Mass advantage and the strong when control in the local Mass and the strong when control in the local Mass and the strong when make a make a control in the local devide when the strong when control in the local devide when the strong when t						Batch moderation	and a special state of the stat	8
I March 2014 (1997) of the control o					Ī	Peter apparation		2
Interface constitution Consider the propriet and one of the propriet and one o	5				Ĭ	Mail engryption	Encoypt to sono en e-mail	1
I INLEGATE CONTROL OF THE CONTROL OF					Ī	MISS ADDITION THE THE	INCIDENT CHIEF SECURITY OF COURT SHIPE CHIEF CHI	1
STREET SHOOT HE REPLACE AND ALL AND AL						ntagnty consideration	Consider the attaching of a document and deliver one in Fig. contact when copying.	2
								8

Assets	ASSet Evaluation	COSCX RSM		
L1 L2 L3 Description (Attributes, Location, Manager in charge, # of Assets)	ľ			Check results Comments on Check Results
241 Extended		Extended		
242 Network and Server				
243 LAN and internet		-to be defined and mpleme	rented in the future.	
244		Protection of network	Protection of network	D: Yes / NA
245		[]	Security measure of network equipment	0: Yes / NA
246		Remote access	Limit an secess capacity from external networks considering its risks.	D Yes / NA
247		Wireless LAN	Consider its riske to	D. Yes / NA
248 Server common		to be defined and implemented in the future.	ented in the future.	
249		Security holes treatment	THE STATE OF THE S	0: Yes / NA
250		Malware trestment		D: Yes / NA
251		DOS treatment		0: Yas / NA
252		Stepping stone trestment	ent	10: Yes / NA
253		Domain name		0: Yes / NA
254 Server application common		-to be defined and implemented in the future	nented in the future.	
		Authentication		0: Yes / NA
256		Access control		D: Yes / NA
2571		Administration		0: Yes / NA
258		Audt vall		D: Yes / NA
259		Assurance		D: You / NA
260		Engryption		D: Yes / NA
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Assets L1 L2 L	L1 L2 L3 Description (Attributes, Location, Manager in charge, # of Assets)	Confidential Integrity	Integrity	Availability Total	Total	Check Type	Clies	Check results
	Network							
264	Office building	2: Internal	Y Migh	Ş.	2: Middle			
265					T	User definition	Define those who can enter the facility/room.	0.
288		1	-	1	Ī	Zoning	Separate an office space an	Separate an office space and the other accessible common space. 9: Yes / NA
268						Outsiders	Get outsiders with an insider attendant	
269						Entry / axit racord	Record an entry and exit.	
270						Goods shipping record	Goods shipping record Keep records of counter service.	1: No
271	Cabinet	2: Internal	5: High	5: High	2: Middle			
272	For markings and printers	2: Internal	27	S. High	2 Middle	Capital action	COME STREET, S	Control of the contro
274		ı			1	Disposal	Dispose printed materials/fexad materials with gare.	materials with gare.
275						Faxing record	Keep record of faxing (sending/receiving	eceiving) 1: No
276	Desk	2. Internal	5 High	5 High	2: Middle			
277						:Desk lock-up	Lock up desk drawers when leaving	eaving I: No
278						Desktop clean-up	Leave nothing on a desktop	Leave nothing on a deaktop, especially confidential information.
279	Physical information							
280	Paper	2: Internal	5: High	S. High	2 Middle			
2						Classification	Identify confidential inform	Identify confidential information within each paper/document
282						Protection	Save confidential paper/do-	
283		3. Internal		,	3	Disposal	Use a paper shredder within	Use a paper shreader when assessing contractions. Or ours it by origin.
9	Olden Victions (DADS/ COS/ LOS/ 18692)	C. Property	2, 11, 20	4.11	C mount	Classification	identify confidential information within each archive.	on within each archive.
+		1		: 	1	Protection	Save confidential archives in	ed access. 1
+		İ				Disposal	Scrap a media (Tage/FD/CD/DVD) physically	
П	Client PC (hardware and software)				t			
F	Desktop PC	2: Internal	5: High	5 High	2: Middle			
290		ľ		T		Assignment	Assign one man user at minimum to all PCs.	
291					Ī	User ID and password	Use a robust password and change one periodically	
П				ĺ		User (D sharing	Prohibit share user IO and password with several people.	
293		!	i	Ī	İ	Cleared acreen	Citar a display screen by sette	with password.
294					Ì	Anti-virus protection	Scan a local storage with and virus software pendifically	SUBCRITY.
295				Ť	t	Anti-virus protection	Use an automatic order category transfer or usually Update a virus definition file periodically	dically 0. Yes / NA
207		1		1	1	Anti-virus protection	Keep records of scanning and updating virus definitions	ating virus definitions
9						UPS	Connect UPS for all desistop PCs	
299						Disposal	Execute a physical formatting of a storage, or scrap it physically	storage, or serap it physically.
00	Laptop /mobile PC (All desktop PC check items must be applied.)	2: Internal	5 High	5: High	2. Middle	-		Calley 1
101		_				Security wire	Wire all laptop /mobile PCs phy	Wire all laptop / mobile PCs physically to deaks or store at a looked facility.
302	Storage devices (Portable HUUs / Namory sticks / Memory cards)	Z: Internal	OZ PER	37 7980	Z. MIGGIN	Anti-vinus protection	Scan storage devices with anti-virus software periodically.	virus software periodically.
NO.		1		Ī	1	Disposal	Execute a physical formatting of	sically.
305	Personal asset (Personally owned PC, storage devices and digital archi2 internel	h(2: Internal	5 High	5: High	2: Middle			
306						Parmission	Get a permission from IS man-	Get a permission from IS manager to take in/out a personal asset to/from an office. It No
9	Software	2: Internal	S High	5: Hg)	2: Middle			L
308					-	installation	install software explicitly allowed by IS manager.	-
3 6						Software configuration	_	
5 3						Patch application		
				7	†	Mail encryption	Encrypt to send an e-mail	1· No
*		1				M sa-addressing mails	_	1
		1		1		Interity consideration	_	at when copying.
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					Software		Personal asset (Personally owned PC, storage devices and digital archi 2: Internal		OCCUPANT OF THE PROPERTY OF TH	C. C. C. C. C. C. C. C. C. C. C. C. C. C	Laptop / mobile PC (All desktop Pr. check items must be applied)							1			Desktop PC	Glent PC (hardware and software)			Digital Archives (DVDg/CDg/FDg/Tapes)				Paper	Physical information		Uesk.			Fax machines and printers		Calvage						Office building	Facility	
					2. unamu .		Ι.		A. 11 (20) 1 Mail	3	7. 11.00 mg										2: Internal 5:				C internal 3		_		2. Internal 5:			Z Incempi 2			2: Internal 5:		2: Internal 5:						Z: Internal 3:	1 1	
					2.000	,	5. High 5: I			1	9.7										5: High 5: F				0.000	1			5:High 5:High			G. right			5: High 5: High		5: High	1			1		5: High 5: 1	Ц	
					C. Manney	1	5: High 2: Middle		V. 1100	,	S. T. ISS.								_	+	5: High 2: Middle			1	2. rugn 4. minuse	1			tigh 2: Middle	_		Property 7			ligh 2: Middle		igh 2 Middle				_		C PRICE 2: MICHE	Ц	
Web downloading	Miss addressing mais	Mail encryption	Patch application	Software configuration	Installation	Permission	ł	Ľ	Anti-virus protection	$\frac{1}{1}$	Security wire	Disposal	UPS	Anti-virus protection	Anti-virus protection	Anti-virus protection	Anti-vinus protection	Cleared screen	Open to and password	ASSIGNMENT	die		Disposal	Protection	Classification	Diaposa	Protection	Classification	Н		Dasktop clean-up	1	Faving record	Disposal	H	Cabinet lock-up	1	Goods shipping record	Entry /exit record	Outsiders	Zonine	User defination	ł		
Drawfood a web browser executable poly which but so electronic servature.	1	1	Apply patches according to IS managers' request	Н	Install software explicitly allowed by IS manager.	COL S PORTING AND THE THE PROPERTY OF THE PROP	Cat a paramination from IS management to take in foots a paramonal agent to from an office		Scen storage devices with anti-wrus software periodically.		Wire all laptop /mobile PCs physically to deske or store at a locked facility.	Execute a physical formatting of a storage, or solabilit physically.	Convect UPS for all desktop PCs.	Keep records of scanning and updating virus definitions.	Update a virus definition file periodically.	Use an automatic virus detection function usually.	Scan a local storage with anti-virus software periodically.	Clear a display screen by setting screen saver function with password	4	1			Scrap a media (Tape/FD/CD/DVD) physically.	Seve confidential archives in safe against unauthorized access.	identify confidential information within each archive.	Ott a piper silledger whole disposing commendate or our in or or or or	Save confidential paper/documents in safe against unauthorized access.	Identify confidential information within each paper/ document.			Leave nothing on a desktop, aspecially confidential information.	The service when leaving	Keep record of faxing (sending) receiving).	Dispose printed materials / faxed materials with care.		Store information assets with confidential information and lock up cabinets.			Record on emby and exit.		Constant an office space and the other accessible common space.	trained an appropriate key exerted for an entrance of the facility/room.	7-6- the specific the facility/man		
- No	1 10	1180	I No	D-Yes / NA	0: Yes / NA		- No	I: No	1: No		1: No		ļ	ļ	×	AN / I				3	ĺ				1: No		8 6	1805	1		N.	1. No	120			No.				È	×	3	0 Yas / NA		

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4 L112	sts L2 L3 Description (Attributes, Location, Manager in charge, 8 of Assets)	Asset Evaluation Confidential Integrity	ш	Availability	Tetal	Check Type	Check item	Chack results Commo
368 Car	Content & Applications							
370	Office building	2: Internal	5: Kigh	5. Hah	2 Middle			
371			1			Key system	Define thas min	Center these who can enter the registry/recent. Or an enter for an entering of the facility/room. Or an entering recent and appropriate the facility/room.
1772		1			l		Separate an office s	
374				Ц		a	Get outsiders with an insider attendant	
375				Ц		Entry /exit record	Record an entry and exit.	nxit. I: No
376			L			ä	Keep records of courier service	
377	Cabinet	2: Internal	High	High	2: Middle			
378			_			Cabinet look-up	Store information a	Score information assets with confidential information and lock up cathinets
300	and the control of th	2011001111.2	0.1.80		7	Disnosal	Dispose printed ma	Dispose printed materials / faxed materials with care.
38 00						ecord	Keep record of fa	Keep record of faxing (sending/receiving):
382	Dask	5: Confident 5: High	l	5: High	3- High			
38.			-			Dask lock-up	Lock up dosk o	ock up dock drawers when leaving 0: Yes / NA
384						Desktop clean-up	Leave nothing	lly confidential information.
	Physical information							
386	Paper	2: Internal	5. High	5 High	2: Middle			
367			L			Classification	identify confide	Identify confidential information within each paper/document
88						Protection	Save confidentia	
86			1	-	-	Cisposal	OSB & Daper Silloud	OSB a paper sill bloom spirit in spooring communication.
10 10	Digital Argumes A Digital Cost and Strategy and Strategy	o company of	1	0.000	Ç	Classification	Identify confidential	dentify confidential information within each archive.
i i		1				Protection	Save confidential arc	Save confidential archives in safe against unauthorized access.
						Disposal	Scrop a media (Tape/)	Screp a media (Tape/FD/CD/DVD) physically. 1: No
	lient PC (hardware and software)							
395	Desktop PC	5: Confident 5: High	High	9	3: High			
395			l			Assgringer	ASSESS ON HAIR COM AC PRINTINGS OF PURI	restriction of an experience of the Annual Control of the Annual C
397						liter (C) sharing	Prohibit share user iD a	Prohibit share user ID and password with several people.
300						Cleared scenes	Clear a display screen	with password
8						Anti-virus protection	Scan a local storage w	
ē.						Anti-virus protection	Use an automatic virus	Use an automatic virus dataction function usually.
402						Anti-virus protection	Update a wrus definition file periodically.	an file periodically.
ŝ						Anti-virus protection	Keep records of scann	Keep records of scanning and updating virus definitions.
ŝ						200	Commence of the comment of a	matting of a storage or serve it obsessed
\$ 5	lasten /mobile PC (All desiston PC chack from must be applied	2 Internal	£1	**************************************	2: Middle	usposei	Excepted a bullourar rot	Executed a pulporest interest of a secondary of south is pulporest.
67			•			Security wire	Wire all laptop /mobile	Wire all laptop /mobile PCs physically to desks or store at a locked facility.
ĝ	Storage devices (Portable HDDs / Memory sticks / Memory cards)	2: Internal	5 High	S. High	2: Middle	400	Cran stronge devices	with anti-view coftware periodically
100						Disposal	Execute a physical fo	Execute a physical formatting of a storage, or sgrap it physically.
411	Personal asset (Personally owned PC, storage devices and digital archi	2 Internal	9	9. II.	2: Middle			
12	Control appear to the partners of the control of th		i	Ц		Permission	Get a permission fro	Get a permission from IS manager to take in/out a personal asset to/from an office.
413	Software	2: Internal	5 1120	5: High	? Middle			
414		L				Installation	Install software explic	Install software explicitly allowed by IS manager.
415						Software configuration	Configure software acc	Configure software according to IS managers' instruction.
416							Apply patches according	Apply patches according to IS managers' request:
						Mail encyption	Encrypt to send an e-mail.	
8				j		maks	Report and take appropr	iste actions when miss-addressing mails
419						The same of the sa	Consider the integrity	Consider the integrity of a document and deliver one in PUF format when copying.
						THE PROPERTY CONSIDERATION		

8	MYG	Consider the integrity of a document and deliver are in PDF format when or	integrity consideration			T.	T		8 8
ď	e sections when miss-addressing mails.	Report and take appropriat	Miss-addressing mails						562
5		French to Had in e-mail	Mail grouption						561
. No		Apply packings according to 15 managers' request	Patch application						560
ő	estruction.	Согодите вобъевте высовой	Software configuration				l		559
i: No		hetal software explicitly allowed by IS makes or	Incial bition						556
5	Today of the control	Carlo Carlo	1 11 2000	2 Mode	5.454	2 Kgb	2 Internal	Software	557
	١	The second second second second	Daming						556
E MO	present a provise remeating or a secret, or struct generality	Control of Salary	A 2500591	2 Mode	5 4 5	2 8 3	h 2 homa	Personal asset (Personally paried PC) storage devices and digital arch 2 Indured	55
8		Scan storage devices with	Anti- mus presession	Ī	Ť	†	t		25.0
				2 Mode	3fgh	S 15gh	2 Internal	Storage devices (Portable HUDs / Nemary above / Nemon cards)	250
No	fire at botop /-noble PCs physically to desky or store at a loosed ficility.	file at laptop / nobile PCs	Security wire				t		551
				2 Middle	5: -lagh	S K	2 internal	Ligitop / grabile PC (#1 deshtop PC ahead itsess must be spaked.)	35
8	Execute a physical formatting of a storage, or spage it physically	Execute a presidal formati	Disposal						549
a de	Ace PCs.	Connect UPS for all deplotop PDs	UPS			i			-
8	virus dell'eller s	Spineton to special deap	Anti-virus protection						547
O Yes / NA		Update a virus de'nation file periodically	Anti-virus protection						546
AW / seY 30		Use an automatic virus detection function usually	Anti-virus pretection		l	T			545
No		Scan a local storage with a	Autimore protection		f		l		4
36	with password	Clear a display screen by a	Ceared screen		İ	İ	İ		ž
No	equie.	Prohibit share user ID and	Uter ID physics		İ	İ			Ä
:No		Use a rebust password and change one period aily	User ID and password		r				247
No	minimum to all PCs.	Assign one main user at minimum to all PGs	Assignment				İ		540
				2 Mode	5 High	5.	2 Internal	Deal-top FC	539
						r		Client PC (hardware and software)	
ð		Scree a media (Taxe/FD/CD/DVD) physically	Disposal						537
Q Yes / NA	ed access.	Save confidential archives	Protection						838
AN / ABY S	Kentily confidency information within each archive.	Martin combance when	Cassification						535
				2 Middle	5 Hg)	S.	2 Internal	Digital Archive (OVDs: CDs:/FDs/Tages)	ý.
		Use a paper shredder whe	Disposal						633
	1 species	Save confidential paper/de	Potection						512
8	Kentily confident at information within each page of document	Kentik confidental inform	Dassification						531
				2 Midde	SHA	5 H	2: Internal	Paper	8
100						1	1	Physical informacion	-
Yes No	too especially confidential information	not nothing on a doubton owner.	Desktop clean-up		1	1			528
	han leaving	and an death designed at	Dack hokeum						153
No.		Substance of security forms on commercial	Control Manage	> Minds	e E	5	2 Internal	Desk	26
No	Security City	Undose pre led materials.	Depose	Ī	t	†	İ		5
		The same of the sa	Pieces	2 Midse	S: Migh	200	Z: Internal	had machines and printery	2 2
8	Social information assets with confidential information and look up eatingts	Store information assets a	Catenat lock-up						i k
				2 Middle	S High	Memel 5: Figh	2 Internal	Gabinet.	27
No	service.	Keep records of courier service.	ď		l	T	-		570
8		Record an entiry and exit.	Entry / crit record				l		519
D'Yes / NA		Get outsiders with an jigider attendant	Outsides			l			518
O. Yes / NA		Separate ar office spare i	Zoning		H				517
3	strance of the facility/sees.	Implement an appropriate	Kay dystam			1			6
		Define those who can enter the facility/soon	User definition						515
1				, Widela	SHA	5 6 6	9 dema	Office triby	5
-				Ī	t	†	t	Facility Che ("anary team room was assessed.)	100
CHECK WESTER COMMEN		Caro sen	Contract and	I	100000000000000000000000000000000000000	İ			
						ALC: UNKNOWN	Catalogue aleganica.	A THE RESERVE OF THE PARTY OF T	1