



Certification Report

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Target of Evaluation

Application date/ID	September 22, 2006 (ITC-6101)
Certification No.	C0077
Sponsor	RICOH COMPANY, LTD.
Name of TOE	(for Japan) imagio Security Card Type C Software (for overseas) DataOverwriteSecurity Unit Type D Software
Version of TOE	V0.03
PP Conformance	None
Conformed Claim	EAL3
TOE Developer	RICOH COMPANY, LTD.
Evaluation Facility	Electronic Commerce Security Technology Laboratory Inc. Evaluation Center

This is to report that the evaluation result for the above TOE is certified as follows.

January 24, 2007

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Information Security Certification Office
IT Security Center
Information-technology Promotion Agency, Japan

Evaluation Criteria, etc.: This TOE is evaluated in accordance with the following criteria prescribed in the "IT Security Evaluation and Certification Scheme".

- Common Criteria for Information-technology Security Evaluation Version 2.3
- Common Methodology for Information Technology Security Evaluation Version 2.3

Evaluation Result: Pass

"imagio Security Card Type C Software, DataOverwriteSecurity Unit Type D Software V0.03" has been evaluated in accordance with the provision of the "IT Security Certification Procedure" by Information-technology Promotion Agency, Japan, and has met the specified assurance requirements.

Notice:

This document is the English translation version of the Certification Report published by the Certification Body of Japan Information Technology Security Evaluation and Certification Scheme.

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1. Executive Summary

1.1 Introduction

This Certification Report describes the content of certification result in relation to IT Security Evaluation of “imagio Security Card Type C Software, DataOverwriteSecurity Unit Type D Software V0.03” (hereinafter referred to as “the TOE”) conducted by Electronic Commerce Security Technology Laboratory Inc. Evaluation Center (hereinafter referred to as “Evaluation Facility”), and it reports to the sponsor, RICOH COMPANY, LTD.

The reader of the Certification Report is advised to read the corresponding ST and manuals (please refer to “1.5.9 Documents Attached to Product” for further details) attached to the TOE together with this report. The assumed environment, corresponding security objectives, security functional and assurance requirements needed for its implementation and their summary specifications are specifically described in ST. The operational conditions and functional specifications are also described in the document attached to the TOE.

Note that the Certification Report presents the certification result based on assurance requirements conformed to the TOE, and does not certify individual IT product itself.

Note: In this Certification Report, IT Security Evaluation Criteria and IT Security Evaluation Method prescribed by IT Security Evaluation and Certification Scheme are named CC and CEM, respectively.

1.2 Evaluated Product

1.2.1 Name of Product

The target product by this Certificate is as follows:

Name of Product:	(for Japan)	imagio Security Card Type C
	(for overseas)	DataOverwriteSecurity Unit Type D
Version:	V0.03	
Developer:	RICOH COMPANY, LTD.	

1.2.2 Product Overview

This TOE is the data overwrite module software (hereinafter: DOMS) mounted in Multi-functional printers (hereinafter: MFP) produced by Ricoh Co., Ltd., and is provided as a recorded state in SD memory card.

This TOE is an option kit, which is available for safer use of MFP, and its function is to overwrite designated areas of the HDD for erasing by the MFP.

1.2.3 Scope of TOE and Overview of Operation

1.2.3.1 TOE scope

This TOE is the software that is recorded state in SD memory card, and the SD memory card is attached to the controller board. Figure1-1 shows the TOE and the structure of the MFP, which is operational environment of the TOE.

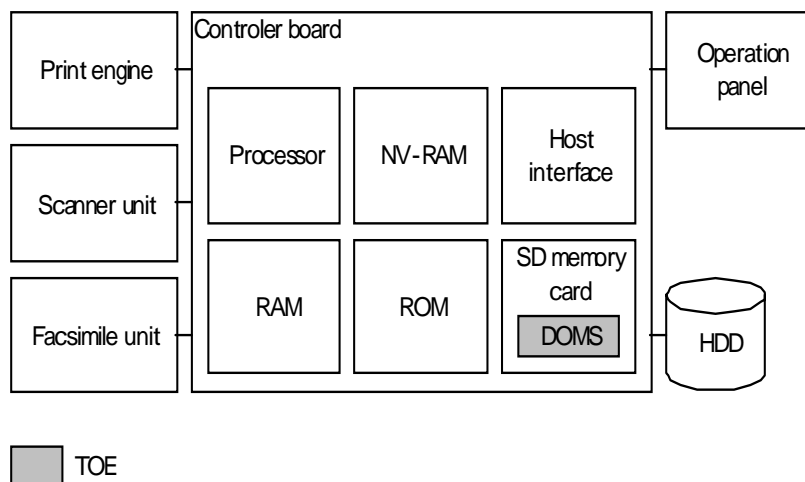


Figure1-1: Structure of TOE and MFP hardware

The explanations of each element in Figure1-1 are as follows.

- The print engine prints out data from printer and copier functions and received data by the facsimile unit while controlling paper feed and paper eject.
- The scanner unit takes image data from paper documents into MFP. It is used for taking image data from the copier, scanner and facsimile transmission functions into controller board.
- The facsimile unit carries out transmission and reception of facsimile messages.
- The operation panel displays the information to MFP users and administrator and also received instructions input by MFP users and administrator. MFP users and administrator operate the operation panel to use the functions of the MFP.
- The HDD is used for storing image data. During printing, copying, scanning or facsimile transmission/reception, the MFP temporarily stores image data for working. Also general users use the HDD to keep their data until making use of the data.
- The controller board controls whole of the MFP. In the MFP, the controller board is equipped with the processor and RAM to execute software, ROM on which the software such as operating system (OS) and the various application modules are stored, NV-RAM on which setting information for MFP is recorded, and the host interface to connect to the user PC and servers. TOE is recorded in SD memory card, and the SD memory card is attached the controller board.

1.2.3.2 Operation overview of the TOE

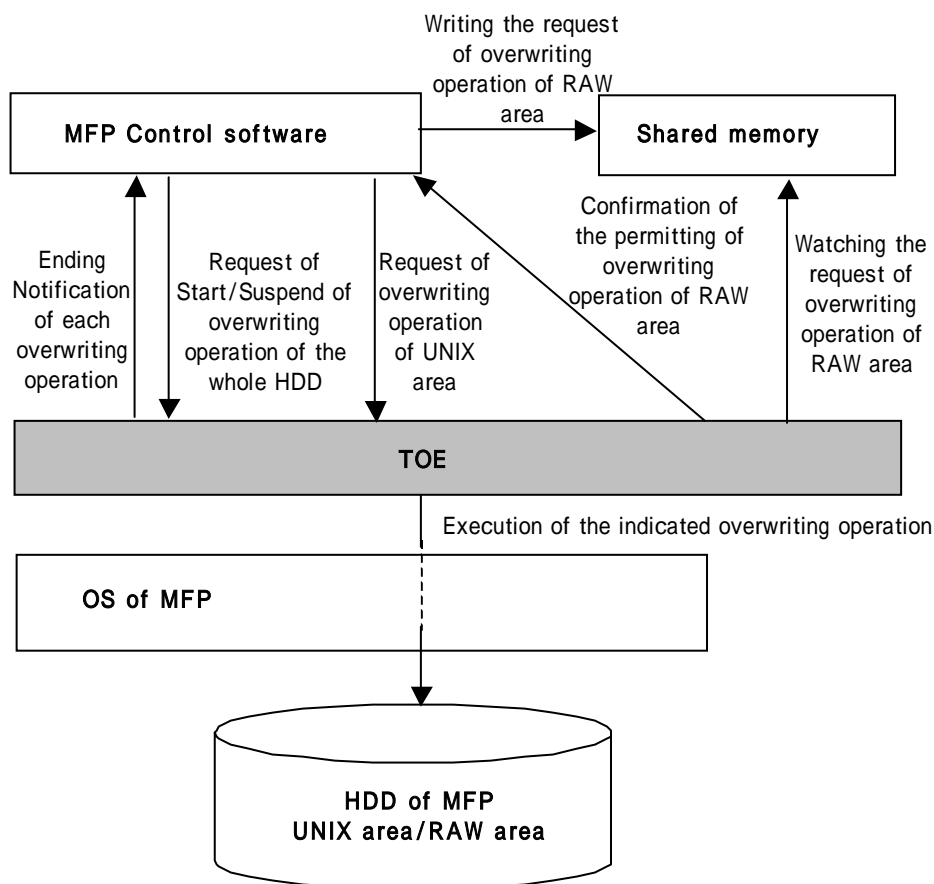


Figure1-2: Operational overview of the TOE

Figure1-2 shows operating overview of the TOE.

Control software of the MFP and the OS of the MFP are software existed on ROM on Controller board of Figure1-1. The HDD of the MFP is HDD of Figure1-1, and it is divided into UNIX area and RAW area. The shared memory is an area defined in RAM on Controller board of Figure1-1.

By instructions from control software of the MFP, the TOE overwrites the specified area on HDD of the MFP with a specified method.

There are following three operations that the TOE overwrites the area.

- Operation overview of overwrites RAW area

The instruction to overwrite information on RAW area to the TOE is executed via shared memory on which the control software of the MFP specify an area to overwrite, and responds to a confirmation of permission from TOE that overwrite for erasing RAW area. At this time one overwriting method for erasing is specified, too.

The TOE monitors the overwrite information of RAW area that recorded in the shared memory. When the TOE finds the record for overwriting, the TOE requests permission to overwrite for erasing the HDD RAW area to the control software of the MFP. The TOE overwrites for erasing the RAW area indicated by the record via the OS, after the control software of the MFP permits the requests. At the end of overwriting, the TOE notifies the control software of the MFP of completion.

- Operation overview of overwrites UNIX area

The instruction to overwrite information on UNIX area to the TOE is executed by the control software of the MFP that specifies a discarded file on UNIX area and one method of overwrite for erasing and gives instructions to overwrite. When the TOE receives a notice of the discarded file in the UNIX area from the MFP, the TOE overwrites for erasing the file via the OS.

At the end of overwriting, the TOE notifies the control software of the MFP of completion.

- Operation overview of overwrite all area of the HDD

When TOE receives the order of overwrite of the whole HDD, the TOE overwrites for erasing all areas of the HDD via the OS.

One method of overwrite for erasing is specified with the order of overwrite for erasing of the whole HDD.

At the end of overwriting, the TOE notifies the control software of the MFP of completion.

The TOE can receive the cancellation for overwriting from the MFP during operation of overwriting all area of the HDD, and the operation is aborted if the cancelling order comes from the MFP.

1.2.4 TOE Functionality

The TOE provides the functions of overwrite for each area on HDD. Those areas are as follows.

- The specified area on RAW area
- The specified files on UNIX area
- All area of the HDD

The method of overwrites for erasing can be specified as one of following three methods.

- NSA method
NSA method overwrites data in following procedure.
 - Overwrite twice with random numbers,
 - Overwrite once with Null (0).
- DoD method
DoD method overwrites data in following procedure.
 - Overwrite once with fixed numbers,
 - Overwrite once with complement of above fixed numbers,
 - Overwrite once with random numbers,
 - Carry out final verification.
- Random Numbers method
Random Numbers method overwrites specified number of times (from one to nine times) with random numbers.

1.3 Conduct of Evaluation

Based on the IT Security Evaluation/Certification Program operated by the Certification Body, TOE functionality and its assurance requirements are being evaluated by evaluation facility in accordance with those publicized documents such as "IT Security Evaluation and Certification Scheme"[2], "IT Security Certification Procedure"[3] and "Evaluation Facility Approval Procedure"[4].

Scope of the evaluation is as follow.

- Security design of the TOE shall be adequate;
- Security functions of the TOE shall be satisfied with security functional requirements described in the security design;
- This TOE shall be developed in accordance with the basic security design;
- Above mentioned three items shall be evaluated in accordance with the CC Part 3 and CEM.

More specific, the evaluation facility examined “Security Target for imagio Security Card Type C, DataOverwriteSecurity Unit Type D” as the basis design of security functions for the TOE (hereinafter referred to as “the ST”)[1], the evaluation deliverables in relation to development of the TOE and the development, manufacturing and shipping sites of the TOE. The evaluation facility evaluated if the TOE is satisfied both Annex C of CC Part 1 (either of [5], [8] or [11]) and Functional Requirements of CC Part 2 (either of [6], [9] or [12]) and also evaluated if the development, manufacturing and shipping environments for the TOE is also satisfied with Assurance Requirements of CC Part 3 (either of [7], [10] or [13]) as its rationale. Such evaluation procedure and its result are presented in “imagio Security Card Type C, DataOverwriteSecurity Unit Type D Evaluation Technical Report” (hereinafter referred to as “the Evaluation Technical Report”) [17]. Further, evaluation methodology should comply with the CEM (either of [14], [15] or [16]).

1.4 Certification

The Certification Body verifies the Evaluation Technical Report and Observation Report prepared by the evaluation facility and evaluation evidence materials, and confirmed that the TOE evaluation is conducted in accordance with the prescribed procedure. Certification review is also prepared for those concerns found in the certification process. Evaluation is completed with the Evaluation Technical Report dated December, 2006 submitted by the evaluation facility and those problems pointed out by the Certification Body are fully resolved and confirmed that the TOE evaluation is appropriately conducted in accordance with CC and CEM. The Certification Body prepared this Certification Report based on the Evaluation Technical Report submitted by the evaluation facility and concluded fully certification activities.

1.5 Overview of Report

1.5.1 PP Conformance

There is no PP to be conformed.

1.5.2 EAL

Evaluation Assurance Level of TOE defined by this ST is EAL3 conformance.

1.5.3 SOF

The minimum strength level claimed for the TOE is SOF-Basic in this ST. It is assumed that the MFP, which is operation environment of the TOE, is used in general offices. Therefore it is appropriate that minimum strength of function for the TOE is SOF-Basic.

1.5.4 Security Functions

Security functions of the TOE are as follow.

The TOE provides the functions of overwrite for each area on HDD. Those areas are as follows.

- The specified area on RAW area

- The specified files on UNIX area
- All area of the HDD

The method of overwrites for erasing can be specified as one of following three methods.

- NSA method
NSA method overwrites data in following procedure.
 - Overwrite twice with random numbers,
 - Overwrite once with Null (0).
- DoD method
DoD method overwrites data in following procedure.
 - Overwrite once with fixed numbers,
 - Overwrite once with complement of above fixed numbers,
 - Overwrite once with random numbers,
 - Carry out final verification.
- Random Numbers method
Random Numbers method overwrites specified number of times (from one to nine times) with random numbers.

1.5.5 Threat

There are no threats countered by the TOE.

1.5.6 Organisational Security Policy

Organisational security policy required in use of the TOE is presented in Table 1-1.

Table 1-1 Organisational Security Policy

Identifier	Organisational Security Policy
OSP.RESIDUAL	The TOE shall prevent from retrieving information on the HDD area specified by the MFP.

1.5.7 Configuration Requirements

Target MFP of the TOE are listed inTable1-2.

Table1-2: Target MFP of the TOE

	Product names in Japan	Product names in other country
Model 1	Ricoh imagio Neo W7050 Ricoh imagio Neo W7050 model 75TR Ricoh imagio Neo W7050 model 75R	Ricoh Aficio 480W Lanier LW411 Savin 4800WD Nashuatec A080 RexRotary A080 Gestetner A080

	Product names in Japan	Product names in other country
Model 2	Ricoh imagio Neo C355it Ricoh imagio Neo C455it Ricoh imagio Neo C285 Ricoh imagio Neo C285 model 75 Ricoh imagio Neo C246 Ricoh imagio Neo C246 model 75 Ricoh imagio Neo C355 Ricoh imagio Neo C355 model 75 Ricoh imagio Neo C455 Ricoh imagio Neo C455 model 75	Ricoh Aficio 3228C/3235C/3245C Lanier LD328c/LD335c/LD345c Savin C2824/C3528/C4535 Nashuatec DSc428/DSc435/DSc445 RexRotary DSc428/DSc435/DSc445 Gestetner DSc428/DSc435/DSc445 infotec ISC 2428/2835/3545
Model 3	Ricoh imagio Neo C200 Ricoh imagio Neo C200 model 6 Ricoh imagio Neo C200 model 765	Ricoh Aficio 3224C/3232C Lanier LD124c/LD132c Savin C2410/C3210e Nashuatec DSc424/DSc432 RexRotary DSc424/DSc432 Gestetner DSc424/DSc432 infotec ISC 1024c/1032c
Model 4	Ricoh imagio Neo 250 Ricoh imagio Neo 250 model 6 Ricoh imagio Neo 250 model 75 Ricoh imagio Neo 250 model 765 Ricoh imagio Neo 300 Ricoh imagio Neo 300 model 6 Ricoh imagio Neo 300 model 75 Ricoh imagio Neo 300 model 765	Ricoh Aficio 3025/3030 Lanier LD225/LD230 Savin 8025/8030 Nashuatec DSm725/DSm730 RexRotary DSm725/DSm730 Gestetner DSm725/DSm730 infotec IS 2225/2230
Model 5	Ricoh imagio Neo 353 Ricoh imagio Neo 353 model D Ricoh imagio Neo 353 model 6 Ricoh imagio Neo 353 model 75D Ricoh imagio Neo 353 model 765D Ricoh imagio Neo 453 Ricoh imagio Neo 453 model 765	Ricoh Aficio 3035/3045/3035G/3045G Lanier LD235/LD245 Savin 8035/8045 Nashuatec DSm735/DSm745 RexRotary DSm735/DSm745 Gestetner DSm735/DSm745 infotec IS 2235/2245
Model 6	Ricoh imagio MP C2500 Ricoh imagio MP C2500 SP Ricoh imagio MP C3000 Ricoh imagio MP C3000 SP	Ricoh Aficio MP C2500/C3000 Lanier LD325c/LD330c Savin C2525/C3030 Nashuatec MP C2500/C3000 RexRotary MP C2500/C3000 Gestetner DSc525/DSc530 infotec ISC 2525/3030
Model 7	Ricoh imagio MP C3500 Ricoh imagio MP C4500	Ricoh Aficio MP C3500/C4500 Lanier LD435c/LD445c Lanier MP C3500/C4500 Savin C3535/C4540 Nashuatec MP C3500/C4500 RexRotary MP C3500/C4500 Gestetner MP C3500/C4500 Gestetner DSc535/DSc545 infotec ISC 3535/4045

	Product names in Japan	Product names in other country
Model 8	Not available	Ricoh Aficio MP 3500/4500 Ricoh Aficio MP 3500G/4500G Ricoh Aficio MP 3590/4590 Lanier LD335/LD345 Lanier MP 3500/4500 Savin 8035e/8045e Nashuatec MP 3500/4500 RexRotary MP 3500/4500 Gestetner MP 3500/4500 Gestetner MP 3590/4590 Gestetner DSm735e/DSm745e Gestetner DSm735eg/DSm745eg infotec IS 2435/2445
Model 9	Not available	Ricoh Aficio MP 2510/3010 Ricoh Aficio MP 2590/3090 Lanier LD325/LD330 Lanier MP 2510/3010 Savin 8025e/8030e Nashuatec MP 2510/3010 RexRotary MP 2510/3010 Gestetner MP 2510/3010 Gestetner MP 2590/3090 Gestetner DSm725e/DSm730e infotec IS 2425/2430

1.5.8 Assumptions for Operational Environment

Assumptions required in environment using this TOE presents in the Table 1-3. The effective performance of the TOE security functions are not assured unless these preconditions are satisfied.

Table 1-3 Assumptions in Use of the TOE

Identifier	Assumptions
A.BREAK	It is assumed that the execution of the TOE is not aborted. The execution of the TOE is not aborted by turning off the power of the MFP before the TOE finishes overwriting.
A.CANCEL	It is assumed that the execution of Erase All Memory is not cancelled. The execution of Erase All Memory is not cancelled without user's intent before the function is finished.

1.5.9 Documents Attached to Product

Documents attached to the TOE are listed below.

Documents for Japan;

- imagio Security Card Type C/imagio Security Card Type D Operating Instructions
Version B735-8501A
- To customers purchased imagio Security Card Type C/imagio Security Card Type D
Version B735-8510

Documents for overseas;

- DataOverwriteSecurity Unit Type C/Unit Type D Operating Instructions
Version B735-8600
- To users of machines with Hold Print and Stored Print functions
Version B735-8801
- Depending on your machine
Version B735-8519

2. Conduct and Results of Evaluation by Evaluation Facility

2.1 Evaluation Methods

Evaluation was conducted by using the evaluation methods prescribed in CEM in accordance with the assurance requirements in CC Part 3. Details for evaluation activities are report in the Evaluation Technical Report. It described the description of overview of the TOE, and the contents and verdict evaluated by each work unit prescribed in CEM.

2.2 Overview of Evaluation Conducted

The history of evaluation conducted was present in the Evaluation Technical Report as follows.

Evaluation has started on September, 2006 and concluded by completion the Evaluation Technical Report dated December, 2006. The evaluation facility received a full set of evaluation deliverables necessary for evaluation provided by developer, and examined the evidences in relation to a series of evaluation conducted. Additionally, the evaluation facility directly visited the development and manufacturing sites on October, 2006 and examined procedural status conducted in relation to each work unit for configuration management, delivery and operation and lifecycle by investigating records and staff hearing. Further, the evaluation facility executed sampling check of conducted testing by developer and evaluator testing by using developer testing environment at developer site on November, 2006.

No concerns were found in evaluation activities for each work unit. Therefore no Observation Report was reported to developer.

As for concerns indicated during evaluation process by the Certification Body, the certification review was sent to the evaluation facility. These were reflected to evaluation after investigation conducted by the evaluation facility.

2.3 Product Testing

Overview of developer testing evaluated by evaluator and evaluator testing conducted by evaluator are as follows.

2.3.1 Developer Testing

1) Developer Test Environment

Developer's testing was performed using TOE-installed MFP circumstances as follows.

Ricoh imagio Neo C355it (System version 1.30)

Ricoh imagio Neo 353 (System version 1.31)

And the following devices were used for testing operation and observation of results:

Testing PC

Terminal software connected to MFP through RS232C/Ethernet communication was used.

IDE Bus Analyser

IDE-Pocket Ultra DMA/100 supported (TOYO Corporation)

Others

Boot server to start up the MFP in boot-mode.

Mail server for sending messages to check out the mail-sending function.

2) Outlining of Developer Testing

Outlining of the testing performed by the developer is as follow.

a. Test configuration

Some models of MFPs, which is distinguished in ST, were used as the testing environment. As the result of the investigation of the difference among the MFPs distinguished in ST, the evaluator assured that some models of MFPs used as the testing environment cover the difference among the MFPs distinguished in ST well. Therefore, the evaluator assured that developer's testing environment was equal to the TOE configurations distinguished in ST.

b. Testing Approach

Following methods were employed for stimulation testing of TSFI and observations.

- Checking out the panel operation and its indication.
- Checking out the logging body, which was displayed on PC monitor. The PC was connected to the testing MFP.
- Monitoring data at the interface of HDD, using IDE bus analyser.

c. Scope of Testing Performed

Testing is performed 57 items by the developer.

The coverage analysis is conducted and examined to testing satisfactorily all of the security functions described in the functional specification and the external interface. Then, the depth analysis is conducted and examined to testing satisfactorily all the subsystems described in the high-level design and the subsystem interfaces.

d. Result

The evaluator confirmed consistencies between the expected test results and the actual test results provided by the developer. The Evaluator confirmed the developer testing approach performed and legitimacy of items performed, and confirmed consistencies between the testing approach described in the test plan and the actual test results.

2.3.2 Evaluator Testing

1) Evaluator Test Environment

Test configuration performed by the evaluator shall be the same configuration with developer testing.

2) Outlining of Evaluator Testing

Outlining of testing performed by the evaluator is as follow.

a. Test configuration

Evaluator's testing was performed in the same TOE testing environment as the TOE configuration distinguished in ST.

b. Testing Approach

Following methods were employed for stimulation testing of TSFI and observations.

- Checking out the panel operation and its indication.
- Checking out the logging body, which was displayed on PC monitor. The PC was connected to the testing MFP.
- Monitoring data at the interface of HDD, using IDE bus analyser.

c. Scope of Testing Performed

Total of 22 items of testing; namely 7 items from testing devised by the evaluator and 15 items from testing from sampling of developer testing was conducted. As for selection of the test subset, the following factors are considered.

1. The items shall cover the developer's testing from the viewpoint of the TSF direction timing.
2. All security functions described in the functional specification and external interface shall be tested fully.

d. Result

All evaluator testing conducted is completes correctly and could confirm the behaviour of the TOE. The evaluator also confirmed that all the test results are consistent with the behaviour.

2.4 Evaluation Result

The evaluator had the conclusion that the TOE satisfies all work units prescribed in CEM by submitting the Evaluation Technical Report.

3. Conduct of Certification

The following certification was conducted based on each materials submitted by evaluation facility during evaluation process.

1. Evidential materials submitted were sampled, its contents were examined, and related work units shall be evaluated as presented in the Evaluation Technical Report.
2. Rationale of evaluation verdict by the evaluator presented in the Evaluation Technical Report shall be adequate.
3. The Evaluator's evaluation methodology presented in the Evaluation Technical Report shall conform to the CEM.

Concerns found in certification process were prepared as certification review, which were sent to evaluation facility.

The Certification Body confirmed such concerns pointed out in certification review were solved in the ST and the Evaluation Technical Report.

4. Conclusion

4.1 Certification Result

The Certification Body verified the Evaluation Technical Report, the Observation Report and the related evaluation evidential materials submitted and confirmed that all evaluator action elements required in CC Part 3 are conducted appropriately to the TOE. The Certification Body verified the TOE is satisfied the EAL3 assurance requirements prescribed in CC Part 3.

4.2 Recommendations

None

5. Glossary

The abbreviations used in this report are listed below.

CC:	Common Criteria for Information Technology Security Evaluation
CEM:	Common Methodology for Information Technology Security Evaluation
EAL:	Evaluation Assurance Level
PP:	Protection Profile
SOF:	Strength of Function
ST:	Security Target
TOE:	Target of Evaluation
TSF:	TOE Security Functions
OS	Operating System
RAM	Random Access Memory
ROM	Read Only Memory
HDD	Hard Disk Drive

The glossaries used in this report are listed below.

MFP	Multi-Functional Printer It is the printer that has multiple functions such as copier, printer in a single machine.
NV-RAM	Non-volatile random access memory Semiconductor memory that can maintain memory content without supply of power
UNIX area	HDD area managed by OS file system The data that exists on the area can be accessed by normal file operation.
RAW area	HDD area not managed by OS file system The data that exists on the area is managed by CSM in its way without OS file operation.
SD memory card	Secure Digital memory card It is a stamp-size memory device with the copyright protection function.

6. Bibliography

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