



Certification Report

Kazumasa Fujie, Chairman Information-technology Promotion Agency, Japan

Target of Evaluation

inget of Evaluation			
Application date/ID	2011-02-08 (ITC-1343)		
Certification No.	C0321		
Sponsor	RICOH COMPANY, LTD.		
Name of TOE	Ricoh Aficio MP C6501 SP/C7501 SP,		
	Savin C9065/C9075,		
	Lanier LD365C/LD375C, Lanier MP C6501 SP/C7501		
	SP,		
	nashuatec MP C6501 SP/C7501 SP,		
	Rex-Rotary MP C6501 SP/C7501 SP,		
	Gestetner MP C6501 SP/C7501 SP,		
	infotec MP C6501 SP/C7501 SP		
	all of above with Fax Option Type C7501,		
	DataOverwriteSecurity Unit Type H, and		
	HDD Encryption Unit Type A		
Version of TOE	- Software version:		
	System/Copy 1.03 Network Support 9.62		
	Scanner 01.05 Printer 1.03		
	Fax 02.00.00 RemoteFax 02.00.00		
	Web Support 1.04 Web Uapl 1.01		
	NetworkDocBox 1.01 animation 1.00		
	PCL 1.08 OptionPCLFont 1.02		
	Engine 1.07:06 OpePanel 1.04 LANG0 1.03 LANG1 1.03		
	LANG0 1.03 LANG1 1.03 - Hardware version:		
	Ic Key 01020700 Ic Ctlr 03		
	- Option version:		
	GWFCU3-18(WW) 02.00.00 Data Erase Opt 1.01x		
PP Conformance	IEEE Std 2600.1-2009		
Assurance Package	EAL3 Augmented with ALC_FLR.2		
Developer	RICOH COMPANY, LTD.		
Evaluation Facility	Electronic Commerce Security Technology Laboratory		
Evaluation racinty	Inc. Evaluation Center		
	IIIC. Evaluation Center		

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

2011-09-30

Takumi Yamasato, Technical Manager Information Security Certification Office IT Security Center, Technology Headquarters

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 3.1 Release 3
- Common Methodology for Information Technology Security Evaluation Version 3.1 Release 3

Evaluation Result: Pass

"Ricoh Aficio MP C6501 SP/C7501 SP,

Savin C9065/C9075,

Lanier LD365C/LD375C, Lanier MP C6501 SP/C7501 SP,

nashuatec MP C6501 SP/C7501 SP,

Rex-Rotary MP C6501 SP/C7501 SP,

Gestetner MP C6501 SP/C7501 SP,

infotec MP C6501 SP/C7501 SP

all of above with Fax Option Type C7501, DataOverwriteSecurity Unit Type H, and HDD Encryption Unit Type A" 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

This Certification Report describes the content of certification result in relation to IT Security Evaluation of "Ricoh Aficio MP C6501 SP/C7501 SP, Savin C9065/C9075,

Lanier LD365C/LD375C, Lanier MP C6501 SP/C7501 SP,

nashuatec MP C6501 SP/C7501 SP, Rex-Rotary MP C6501 SP/C7501 SP,

Gestetner MP C6501 SP/C7501 SP, infotec MP C6501 SP/C7501 SP

all of above with Fax Option Type C7501, DataOverwriteSecurity Unit Type H, and HDD Encryption Unit Type A" (hereinafter referred to as "the TOE") developed by RICOH COMPANY, LTD., and evaluation of the TOE was finished on 2011-09 by Electronic Commerce Security Technology Laboratory Inc. Evaluation Center (hereinafter referred to as "Evaluation Facility"). It reports to the sponsor, RICOH COMPANY, LTD. and provides information to the users and system operators who are interested in this TOE.

The reader of the Certification Report is advised to read the Security Target (hereinafter referred to as "the ST") that is the appendix of this report together. Especially, details of security functional requirements, assurance requirements and rationale for sufficiency of these requirements of the TOE are described in ST.

This certification report assumes "the general consumers who purchase this TOE" to be a reader. Note that the Certification Report presents the certification result based on assurance requirements to which the TOE conforms, and does not guarantee individual IT product itself.

1.1 Product Overview

Overview of the TOE functions and operational conditions is as follows. Refer to Chapter 2 and subsequent chapters for details.

1.1.1 Assurance Package

Assurance Package of the TOE is EAL3 augmented with ALC_FLR.2.

1.1.2 TOE and Security Functionality

The TOE is a digital Multi Function Product (hereafter "MFP") made by RICOH COMPANY, LTD., which provides the functions of copy, scanner, printer, and fax (option) for digitising paper-based documents, document management, and printing.

This MFP is an IT product which incorporates each function of scanner, printer, and fax with Copy Function, and is generally connected to an office LAN and used for inputting, storing, and outputting documents.

This TOE provides Security Functions required for IEEE Std 2600.1-2009 [14], which is a Protection Profile (hereafter, "conformance PP") for digital MFPs, and also provides the Security Functions to accomplish the necessary security policy for an organisation which manages the TOE.

For these security functionalities, the evaluation for the validity of the design policy and the correctness of the implementation is conducted in the scope of the assurance package. The

next clause describes the assumed threats and assumptions in this TOE.

1.1.2.1 Threats and Security Objectives

This TOE assumes the following threats and provides the Security Functions to counter them.

For protected assets such as the documents that the TOE handles and the setting information relevant to the Security Functions, there are threats of disclosure and tampering caused by unauthorised access to both the TOE and the communication data on the network. This TOE provides the Security Functions to prevent those protected assets from unauthorised disclosure and tampering.

1.1.2.2 Configuration and Assumptions

The evaluated product is assumed to be operated under the following configuration and assumptions.

This TOE is equipped with Fax Controller Unit (hereafter, "FCU") to provide Fax Function for the MFP, with Security Card that is an optional device used to overwrite residual data, and also with HDD Encryption Unit to provide the function to encrypt the storage.

It is assumed that this TOE is located in an environment where physical components and interfaces of the TOE are protected from the unauthorised access. For the operation, the TOE shall be properly configured, maintained, and managed according to the guidance documents.

1.1.3 Disclaimers

This TOE is assumed to be operated while the following functions are deactivated. The security is not assured if the TOE is operated after changing this setting:

- Maintenance Function
- IP-Fax and Internet Fax Function
- Authentication methods except for Basic Authentication (when Basic Authentication is applied) and Windows Authentication using Kerberos Authentication method (when External Authentication is applied)

1.2 Conduct of Evaluation

Evaluation Facility conducted IT security evaluation, and completed on 2011-09 based on functional requirements and assurance requirements of the TOE according to the publicised documents "IT Security Evaluation and Certification Scheme"[1], "IT Security Certification Procedure"[2], "Evaluation Facility Approval Procedure"[3] provided by Certification Body.

1.3 Certification

The Certification Body verified the Evaluation Technical Report [13] prepared by Evaluation Facility and evaluation evidence materials, and confirmed that the TOE evaluation is conducted in accordance with the prescribed procedure. The Certification Body confirmed that the TOE evaluation is appropriately conducted in accordance with CC ([4][5][6] or [7][8][9]) and CEM (either of [10][11]). The Certification Body prepared this Certification Report based on the Evaluation Technical Report submitted by Evaluation Facility and fully concluded certification activities.

2. Identification

The TOE is identified as follows:

Ricoh Aficio MP C6501 SP/C7501 SP, Savin C9065/C9075, Lanier LD365C/LD375C, Lanier MP C6501 SP/C7501 SP,

nashuatec MP C6501 SP/C7501 SP, Rex-Rotary MP C6501 SP/C7501 SP, Gestetner MP C6501 SP/C7501 SP,

Name of the TOE:

infotec MP C6501 SP/C7501 SP

above with Fax Option Type C7501, DataOverwriteSecurity Unit Type H, and HDD Encryption

Unit Type A

-	Software	version:

System/Copy	1.03	Network Support	9.62
Scanner	01.05	Printer	1.03
Fax	02.00.00	RemoteFax	02.00.00
Web Support	1.04	Web Uapl	1.01
NetworkDocE	Box 1.01	animation	1.00
PCL	1.08	OptionPCLFont	1.02
Engine	1.07:06	OpePanel	1.04
LANG0	1.03	LANG1	1.03

Version of the TOE:

- Hardware version:

Ic Key

01020700 Ic Ctlr 03

- Option version:

GWFCU3-18(WW) 02.00.00 Data Erase Opt 1.01x

RICOH COMPANY, LTD. Developer:

The user can verify that a product is the TOE, which is evaluated and certified, by the following means.

According to the procedures described in the guidance documents, the user can confirm that the installed product is this evaluated TOE by comparing the names that are displayed on the MFP exterior and the versions on the Operation Panel of the TOE with the applicable descriptions in the list of the TOE configuration items.

3. Security Policy

This chapter describes security function policies and organisational security policies.

The TOE provides the Security Functions to counter the unauthorised access to the stored documents in the MFP, and to protect the communication data on the network.

For meeting the organisational security policies, the TOE provides the functions to overwrite the internal stored data, to encrypt the stored data in an HDD, and to prevent the unauthorised access through telephone lines via fax I/F.

For each setting that is relevant to the above mentioned Security Functions, only administrators are permitted to set configurations in order to prevent the deactivation and unauthorised use of the Security Functions.

Tables 3-1 and 3-2 show the protected assets for the Security Functions of this TOE.

Table 3-1 TOE protected assets (user data)

Туре	Asset
Document information	Digitised documents, deleted documents, temporary documents and their fragments under the TOE control.
Function information	Active Job executed by users. (Hereafter, referred to as "user job".)

Table 3-2 TOE protected assets (TSF data)

Туре	Asset	
Protected data	The information that shall be protected from changes by users without edit permission; it includes Login user name, Number of Attempts before Lockout, year/month/day setting, time setting, Minimum Character No. of password, etc. (Hereafter, referred to as "TSF protected data".)	
Confidential data	The information that shall be protected from changes by users without edit permission, and also shall be protected from reading by users without viewing permission; it includes Login password, audit log, and HDD cryptographic key. (Hereafter, referred to as "TSF confidential data".)	

3.1 Security Function Policies

The TOE possesses the security functions to counter the threats shown in Chapter 3.1.1 and to meet the organisational security policies shown in Chapter 3.1.2.

3.1.1 Threats and Security Function Policies

3.1.1.1 Threats

The TOE assumes the threats shown in Table 3-3 and provides the functions as countermeasures against them. Although threats are expressed differently from the conformance PP, the evaluation process confirmed the equivalence of both threats.

Table 3-3 Assumed Threats

Identifier	Threat	
T.DOC.DIS	Documents under the TOE management may be	
(Document disclosure)	disclosed to persons without a login user name, or to	
	persons with a login user name but without an access	
	permission to the document.	
T.DOC.ALT	Documents under the TOE management may be altered	
(Document alteration)	by persons without a login user name, or by persons	
	with a login user name but without an access	
	permission to the document.	
T.FUNC.ALT	User jobs under the TOE management may be altered	
(User job alteration)	by persons without a login user name, or by persons	
	with a login user name but without an access	
	permission to the user job.	
T.PROT.ALT	TSF Protected Data under the TOE management may	
(Alteration of TSF	be altered by persons without a login user name, or by	
protected data)	persons with a login user name but without an access	
	permission to the TSF Protected Data.	
T.CONF.DIS	TSF Confidential Data under the TOE management	
(Disclosure of TSF	may be disclosed to persons without a login user name,	
confidential data)	or to persons with a login user name but without an	
	access permission to the TSF Confidential Data.	
T.CONF.ALT	TSF Confidential Data under the TOE management	
(Alteration of TSF	may be altered by persons without a login user name, or	
confidential data)	by persons with a login user name but without an access	
	permission to the TSF Confidential Data.	

^{* &}quot;Persons with a login user name" mean persons who are permitted to use the TOE.

3.1.1.2 Security Function Policies against Threats

All threats shown in Table 3-3 describe breaches (viewing or alteration) of user data and TSF data caused by persons who are not permitted users for the TOE, or by persons who do not have any valid authorities.

These threats are countered by the following Security Functions:

(1) User identification and authentication

The TOE verifies that a person who attempts to use the TOE is an authorised TOE user. For this, the TOE refers to the user identification and authentication information that is obtained from that person. If the person is confirmed as an authorised TOE user, the user receives the user privileges that are set in advance in accordance with the role assigned to the user. Accordingly, this user is allowed to use the TOE. As shown in "Table 4-2 TOE Users", the roles specified by the TOE are those of normal user, MFP administrator, supervisor, and RC Gate. The entry means are the input from Operation Panel of the TOE itself, the input on a Web browser of client computers, the input via drivers when using Printer Function and LAN-Fax Transmission, and the input from RC Gate.

User identification and authentication methods for normal users are Basic Authentication and External Authentication, and either of the methods is selected when the TOE is installed. Below are the explanations of both methods for user identification and authentication. (Note that user identification and authentication for an MFP administrator and supervisor is performed on the TOE.)

(Basic Authentication)

A user is required to enter his or her login user name and password, and the TOE confirms that the entered data are identical to the user authentication data managed internally by the TOE. In addition, as a means to ensure the necessary functional strength, the following functions are provided:

- If users fail to be authenticated consecutively until reaching the specified number of times set by the MFP administrator, the user accounts are forced to be locked out. (The user accounts cannot be used until the lockout time elapses or the lockout is released.)
- The login passwords are required, when they are set, to be composed of more than the level of quality that has been established in terms of the length (number of characters) and the character types.

(External Authentication)

A user is required to enter his or her login user name and password. The entered login user name and password are sent to the authentication server that is connected to the TOE. The server checks if the entered data match the user authentication data that the server manages. The result of the check is sent to the TOE.

There are several user identification and authentication methods using an external authentication server, but only Windows authentication that uses Kerberos authentication is subject to the evaluation of this TOE.

A certificate is used as the method for RC Gate identification and authentication. When the TOE receives a certificate from an IT device to access the TOE via RC Gate communication interface, the TOE checks if the certificate matches another certificate installed in the TOE. Only if the certificate sent from the IT device matches the one installed in the TOE so that the IT device is identified as RC Gate, the IT device whose user role is RC Gate is allowed to use the TOE.

As a means to support the Identification and Authentication Function, the following functions are provided:

- Display dummy characters in place of the entered login password on the input screen.
- After once logged in, if at any time the TOE is not operated by the user or anyone in a certain period of time, the user account will be automatically logged out.

(2) Access control (Access control against the user data)

For processing request by users, access control to the document information and the user jobs is performed, based on the login user names and permissions of each user role of the users.

Stored documents are associated with specific information (a document user list) that stipulates which user is allowed to perform the operation (deletion, printing, and downloading, etc.). Access control to allow or deny the operation request by normal user is performed, according to the login user names and the information in the document user list. The MFP administrator is permitted to delete any stored documents, but is not permitted to perform any other operation on stored documents.

User jobs are associated with the login user names of the users that create the jobs, and the normal user who is associated with the login user name is allowed to delete the applicable job. The MFP administrator is allowed to delete all the user jobs. The supervisor and RC Gate are forbidden to perform any operations on the user data.

(3) Overwrite residual data

In order to protect from unauthorised access to documents that have been deleted but remain residually stored in the HDD, temporary documents and their fragments in the HDD, the residual data shall be overwritten by specified data when deleting the documents.

(4) Network protection

In order to prevent information leakage by being monitored via communication paths, SSL encrypted communication is used between the TOE and client computers for the operations via a Web browser, communications using Printer Function and LAN-Fax communication, and communication with RC Gate. IPsec communication and S/MIME communication are also used for the communications between the TOE and the clients.

(5) Security management

In order to protect the TSF data from unauthorised access beyond the user permissions, access control is performed on actions, such as viewing or altering TOE setting information, and newly creating or altering user data in accordance with the TOE user roles. As a permission policy of information alteration (modification), normal users are only authorised to alter their login passwords, and supervisor is only authorised to alter the login passwords of the supervisor and the MFP administrators. Only MFP administrators are allowed to alter the TSF data, except for the above mentioned permissions.

3.1.2 Organisational Security Policies and Security Function Policies

3.1.2.1 Organisational Security Policies

Organisational security policies required in use of the TOE are shown in Table 3-4. The evaluation process has confirmed that the security policies except for P.STORAGE.ENCRYPTION and P.RCGATE.COMM.PROTECT are identical to the security policies in the conformance PP.

P.STORAGE.ENCRYPTION is the security policy that assumes writing data into the HDD not in a directly readable format, and P.RCGATE.COMM.PROTECT is the security policy that assumes protecting the communication between the TOE and RC Gate.

Table 3-4 Organisational Security Policies

Identifier	Organisational Security Policy
P.USER.AUTHORIZATION	Only users with operation permission of the TOE shall
(User identification and	be authorised to use the TOE.
authentication)	
P.SOFTWARE.VERIFICATION	Procedures shall exist to self-verify executable code in
(Software verification)	the TSF.
P.AUDIT.LOGGING	The TOE shall create and maintain a log of TOE use
(Management of audit log	and security-relevant events. The audit log shall be
records)	protected from unauthorised disclosure or alteration,
	and shall be reviewed by authorised persons.
P.INTERFACE.MANAGEMENT	To prevent unauthorised use of the external interfaces of
(Management of external	the TOE, operation of those interfaces shall be
interfaces)	controlled by the TOE and its IT environment.
P.STORAGE.ENCRYPTION	The data stored on the HDD inside the TOE shall be
(Encryption of storage devices)	encrypted.
P.RCGATE.COMM.PROTECT	As for communication with RC Gate, the TOE shall
(Protection of communication	protect the communication data between itself and RC
with RC Gate)	Gate.

3.1.2.2 Security Function Policies to Organisational Security Policies

The TOE provides the security functions to meet the Organisational Security Policies shown in Table 3-4.

(1) Means to support Organisational Security Policy, "P.USER.AUTHORIZATION"

This security policy requires that only officially registered TOE users be allowed to use the TOE.

The TOE implements this policy by the following Security Functions:

(a) User identification and authentication

Based on the user identification and authentication described in 3.1.1.2, whether a person who attempts to use the TOE is an authorised user will be verified with reference to the identification and authentication information obtained from the user. A person is provided with the user privileges that are set in advance in accordance with the role assigned to the user, so that the authorised person is allowed to use the TOE only if the person is confirmed as an authorised user.

(2) Means to support Organisational Security Policy, "P.SOFTWARE.VERIFICATION" This security policy requires the validity of the TOE executable code to be self-verified. The TOE implements this policy by the following Security Functions:

(a) Self test

The TOE (component items except for FCU) runs a self test during the initialisation start-up after turning on the power, and it checks the integrity and the validity of executable code in the MFP control software. The self test verifies the hash values of firmware and confirms the completeness of the executable code. The test verifies each application on the basis of a signature key and confirms the validity of the executable code.

If something abnormal is recognised during the self test, an error message is displayed on the Operation Panel and the TOE stops the operations, so normal users cannot use the TOE. If no abnormal operations are recognised, the TOE continues the start-up processing and makes itself usable for the users.

As for the FCU, the TOE provides the verification information that allows the users to confirm the integrity. To use the TOE, the users need to verify the FCU based on this information.

(3) Means to support Organisational Security Policy, "P.AUDIT.LOGGING"
This security policy requires audit logs for the security events of the TOE to be acquired, and the audit logs to be appropriately managed.
The TOE implements this policy by the following Security Functions:

(a) Security audit

When auditable security events occur, the TOE generates the audit logs that consist of such items as event type, user identification, occurrence date and time, and outcome, etc. to add and save to the audit logging file. Only successfully authenticated MFP administrators are allowed to read and delete the generated audit logging file. Reading the audit logging file is executed by text format through a Web browser of client computers.

In addition, in order to record the occurrence date and time of the audit event log, the date and time information are acquired from the system clock of the TOE.

(4) Means to support Organisational Security Policy, "P.INTERFACE.MANAGEMENT" This security policy requires that external interfaces (Operation Panel, LAN interface, USB interface, and telephone lines) of the TOE be appropriately managed without being used by unauthorised persons.

The TOE implements this policy by the following Security Functions:

(a) User identification and authentication

Based on the user identification and authentication described in 3.1.1.2, whether a person who attempts to use the TOE is an authorised user will be verified with reference to the identification and authentication information obtained from the user. A person is provided with the user privileges that are set in advance in accordance with the role assigned to the user, so that the authorised person is allowed to use the

TOE only if the person is confirmed as an authorised user.

(b) Restricted forwarding of data to external interfaces

This function is not an implementation for active mechanism, but is addressed as architectural design of external interfaces. By its architecture, any information received from an external interface is processed by the TSF, and any information sent to an external interface is controlled by the TSF. Thus, unauthorised forwarding of data between the different external interfaces is prevented.

As for USB interfaces, unauthorised forwarding of data by using this interface is prevented by deactivating the use of USB interfaces.

(5) Means to support Organisational Security Policy, "P.STORAGE.ENCRYPTION" This security policy requires that the TOE encrypt the stored contents on the HDD inside the TOE.

The TOE implements this policy by the following Security Functions:

(a) Stored data protection function

The encryption and decryption by AES are performed for all data written into or reading out to the HDD. When encrypting and decrypting the data, the key of 256-bits length is used. The key is created from the administrator setting an initial value and stored in the TOE.

(6) Means to support Organisational Security Policy, "P.RCGATE.COMM.PROTECT" This security policy requires that any communication between the TOE and the RC Gate be protected.

The TOE implements this policy by the following Security Functions:

(a) Network protection

Based on the network protection functions described in 3.1.1.2, SSL encryption is applied to communications between the TOE and the RC Gate.

4. Assumptions and Clarification of Scope

In this chapter, it describes the assumptions and the operational environment to operate the TOE as useful information for the assumed readers to judge the use of the TOE.

4.1 Usage Assumptions

Table 4-1 shows assumptions to operate the TOE. Although assumptions are expressed differently from the conformance PP, the evaluation process confirmed the equivalence of both assumptions.

The effective performance of the TOE security functions are not assured unless these assumptions are upheld.

Table 4-1 Assumptions in Use of the TOE

Table 4-1 Assumptions in Use of the TOE			
Identifier	Assumptions		
A.ACCESS.MANAGED	According to the guidance document, the TOE is placed		
(Access management)	in a restricted or monitored area that provides		
	protection from physical access by unauthorised		
	persons.		
A.USER.TRAINING	The responsible manager of MFP trains users according		
(User training)	to the guidance document and users are aware of the		
	security policies and procedures of their organisation		
	and are competent to follow those policies and		
	procedures.		
A.ADMIN.TRAINING	Administrators are aware of the security policies and		
(Administrator	procedures of their organisation, are competent to		
training)	correctly configure and operate the TOE in accordance		
	with the guidance document following those policies and		
	procedures.		
A.ADMIN.TRUST	The responsible manager of MFP selects administrators		
(Trusted administrator)	who do not use their privileged access rights for		
	malicious purposes according to the guidance document.		

4.2 Environment Assumptions

This TOE is installed in general offices and connected to the local area networks (hereafter, "LAN"), and it is used by client computers connected to the Operation Panel of the TOE itself as well as the LAN.

Figure 4-1 shows the general operational environment as assumptions of the TOE.

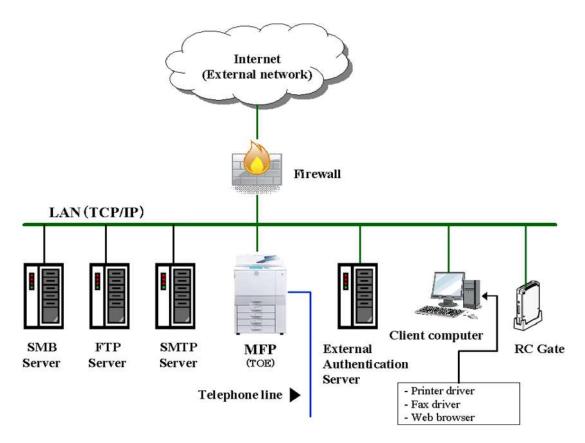


Figure 4-1 Operational Environment and Configuration

Figure 4-1 gives an example environment to handle office documents in general offices where the TOE is assumed to be used. The TOE is connected to the LAN and telephone lines.

When the TOE is connected to the LAN that is connected to an external network such as the Internet, firewalls are installed at the boundaries between the external network and the LAN to protect the LAN and the TOE from attacks that originate from the external network. The LAN is connected to server computers such as an FTP server, an SMB server, and an SMTP server, and an external authentication server, and is connected to client computers and RC Gate. The LAN performs the communication for the TOE to gather data such as documents and a variety of information.

The operation of the TOE includes both cases of using the Operation Panel of the TOE and using client computers. Installing printer drivers or fax drivers in client computers enables to process printing via the local area network from the client computers.

Although the reliability of hardware and software shown in this configuration is outside the scope of this evaluation, it is assumed to be trustworthy.

Table 4-2 shows the associated users to use of the TOE in this environment.

Table 4-2 TOE users

User Definition		Explanation
		A user who is allowed to use the TOE. A
Normal user		normal user is provided with a login
Normai user		user name and can use normal
		functions of MFP.
		Authorised to delete and newly register
	Supervisor	the login password of MFP
		administrators.
		A user who is allowed to manage the
Administrator		TOE and performs the management
	MFP	operations such as user data
	administrator	management of normal user, device
		management, file management, and
		network management.
		An IT device connected to networks.
		This device is for operations such as
RC Gate		collecting data via the RC Gate
		communication interface, so that
		@Remote can be performed, which is a
		set of remote diagnosis maintenance
		services for the TOE.

As shown in Table 4-2, the TOE users are classified into normal user, administrator, and RC Gate. According to the roles, administrators shall be identified as supervisor and MFP administrator. The users shown in Table 4-2 are direct users of the TOE. There is also a responsible manager of the MFP who, as an indirect TOE user, is authorised to select the MFP administrator and supervisor. The responsible manager of MFP is assumed to be an organisational manager in the operational environment.

4.3 Clarification of scope

The scope of this TOE covers the entire products as sold to users that are equipped with FCU which provides Fax Function to MFP. As to FCU, Security Card, and HDD Encryption Unit, which are the optional products, the developer installs them on the MFP in the user's environment. Following performances check, the MFP as the TOE is delivered to the user. Although this TOE supports S/MIME as the Communication Data Protection Function for the e-mail transmission, the administrators need to be responsible for managing the availability and validity of the certificate of the S/MIME recipient.

5. Architectural Information

This chapter explains the scope of the TOE and the main components (subsystems).

5.1 TOE boundary and component

Figure 5-1 shows the composition of the TOE. The TOE is the entire MFP product.

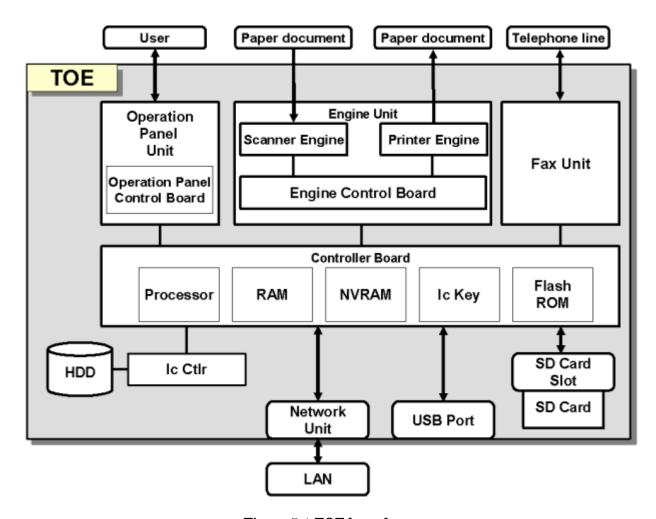


Figure 5-1 TOE boundary

As shown in Figure 5-1, the TOE consists of the following hardware: Operation Panel Unit, Engine Unit, Fax Unit, Controller Board, HDD, Ic Ctlr, Network Unit, USB Port, and SD Card Slot/SD Card. The general description of each configuration item is described as follows:

[Operation Panel Unit (hereafter, referred to as "Operation Panel")]

The Operation Panel is an interface device that the TOE users use for the TOE operation. It features the following devices: key switches, LED indicators, an LCD touch screen, and Operation Control Board.

[Engine Unit]

The Engine Unit contains a Scanner Engine that is an input device to read paper documents, Printer Engine that is an output device to print and eject paper documents, and Engine Control Board that controls each engine.

[Fax Unit]

The Fax Unit is a unit that has a modem function and sends or receives fax data to and from other fax devices with G3 standard when connected to a telephone line. FCU is the identifier of the Fax Unit among the components that constitute the TOE.

[Controller Board]

The Controller Board is a device that contains Processors, RAM, NVRAM, Ic Key and FlashROM. The following describes the components of the Controller Board:

- Processor

A semiconductor chip which carries out the basic arithmetic processing of MFP operations.

- RAM

A volatile memory medium which is used as the image data.

NVRAM

A non-volatile memory medium which stores the MFP control data to configure the MFP operation.

- Ic Kev

A security chip which has the function of a random number generation and cryptographic key generation. It is used to detect alteration of the MFP Control Software.

- FlashROM

A non-volatile memory medium in which the MFP Control Software is installed. The MFP Control Software contains the following software, which are some of the components that constitute the TOE: System/Copy, Network Support, Scanner, Printer, Fax, RemoteFax, Web Support, Web Uapl, NetworkDocBox, animation, PCL, OptionPCLFont, LANG0, and LANG1.

[HDD]

The HDD is a hard disk drive which image data and user data to be used for identification and authentication are written into.

[Ic Ctlr]

The Ic Ctlr is a security chip that has the functions to encrypt the information stored into the HDD and decrypt the information read from the HDD.

[Network Unit]

The Network Unit is an external interface to an Ethernet (100BASE-TX/10BASE-T) LAN.

[USB Port]

The USB Port is an external interface to connect a client computer to the TOE for printing directly from client computers. This interface is disabled at the time of installation.

[SD Card/SD Card Slot]

The SD Card Slot is used for inserting an SD Card. The SD Card is a memory medium which holds the Residual Data Overwrite Function software (Data Erase Opt). The SD Card Slot is inside the MFP, and the SD Card is not operated by hand in normal operation.

5.2 IT Environment

The TOE is connected to the LAN and communicates with server computers, such as an FTP server, an SMB server, an SMTP server, and an external authentication server, as well as with RC Gate and client computers. The TOE communicates with fax devices via the

telephone line.

The client computer belonging to LAN uses the TOE through the printer driver, the fax driver, and the Web browser.

The client computer performs not only communication of document data to the TOE, but also an operation of some management functions and status checking of the TOE via the Web browser.

6. Documentation

The identification of documents attached to the TOE is listed below. There are four sets of guidance documents of the TOE. Each of them is used in accordance with the sales area and/or sales company in which the TOE is sold. There are differences between the document sets in English, organisation of the documents, and regulation depending on a country or area. However, the equivalency of the security-relevant contents between them is confirmed by the evaluation process.

TOE users are required to fully understand and comply with the following documents in order to uphold the assumptions.

[English version-1] (Product attached documents for North America)

Document Name	Version
C9065/C9075	D081-7606
MP C6501SP/C7501SP	
LD365C/LD375C	
Aficio MP C6501SP/C7501SP	
Operating Instructions About This Machine	
C9065/C9075	D081-7633
MP C6501SP/C7501SP	
LD365C/LD375C	
Aficio MP C6501SP/C7501SP	
Operating Instructions Troubleshooting	
C9065/C9075	D081-7623
MP C6501SP/C7501SP	
LD365C/LD375C	
Aficio MP C6501SP/C7501SP	
Operating Instructions Copy and Document Sever Reference	
App2Me Start Guide	D085-7905B
Quick Reference Copy Guide	D081-7628
Quick Reference Printer Guide	D081-7655
Quick Reference Scanner Guide	D081-7665
Notes for Users	D377-7250
Manuals for Users	D081-7714
C9065/C9075	
MP C6501SP/MP C7501SP	
LD365C/D375C	
Aficio MP C6501SP/MP C7501SP	
Manuals for Administrators	D081-7716

C9065/C9075	
MP C6501SP/MP C7501SP	
LD365C/D375C Aficio MP C6501SP/MP C7501SP	
To Users of This Machine	D029-7903
Notes for Users	D060-7782
Operating Instructions Notes On Security Functions	D081-7689
Notes for Administrators: Using this Machine in a Network Environment	D081-7688
Compliant with IEEE Std.2600.1 TM -2009	
Help	83NHBNENZ
	1.20 v110
Quick Reference Fax Guide	D498-8507
Manuals	D377-7900A
DataOverwriteSecurity Unit Type H/I	

[English version-2] (RICOH's product attached documents for Europe)

Document Name	Version
Quick Reference Copy Guide	D081-7627
Quick Reference Fax Guide	D498-8506
Quick Reference Printer Guide	D081-7654
Quick Reference Scanner Guide	D081-7664
Manuals for This Machine	D081-7602
Safety Information for Aficio MP C6501SP/Aficio MP C7501SP	D081-7600
App2Me Start Guide	D085-7904B
Notes for Users	D377-7250
Manuals for Users	D081-7718
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
A	
Manuals for Administrators Security Reference	D081-7722
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
To Users of This Machine	D029-7903
Notes for Users	D060-7782
Operating Instructions Notes On Security Functions	D081-7687
Notes for Administrators: Using this Machine in a Network	D081-7686
Environment Compliant with IEEE Std.2600.1 TM -2009	
Help	83NHBNENZ1.20

	v110
Manuals	D377-7900A
DataOverwriteSecurity Unit Type H/I	

[English version-3] (OEM Product attached documents for Europe)

Document Name	Version
Quick Reference Copy Guide	D081-7627
Quick Reference Fax Guide	D498-8506
Quick Reference Printer Guide	D081-7654
Quick Reference Scanner Guide	D081-7664
Manuals for This Machine	D081-7602
Safety Information for MP C6501SP/MP C7501SP	D081-7601
App2Me Start Guide	D085-7904B
Notes for Users	D377-7250
Manuals for Users	D081-7718
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
A	
Manuals for Administrators Security Reference	D081-7722
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
To Users of This Machine	D029-7903
Notes for Users	D060-7782
Operating Instructions Notes On Security Functions	D081-7687
Notes for Administrators: Using this Machine in a Network	D081-7686
Environment Compliant with IEEE Std.2600.1 TM -2009	
Help	83NHBNENZ1.20
	v110
Manuals	D377-7900A
DataOverwriteSecurity Unit Type H/I	

[English version-4] (Product attached documents for Asian Pacific)

Document Name	Version
MP C6501SP/C7501SP	D081-7608
MP C6501SP/C7501SP	
Aficio MP C6501SP/C7501SP	

Operating Instructions About This Machine	
MP C6501SP/C7501SP	D081-7635
MP C6501SP/C7501SP	
Aficio MP C6501SP/C7501SP	
Operating Instructions Troubleshooting	
MP C6501SP/C7501SP	D081-7625
MP C6501SP/C7501SP	
Aficio MP C6501SP/C7501SP	
Operating Instructions Copy and Document Sever Reference	
Quick Reference Copy Guide	D081-7629
Quick Reference Printer Guide	D081-7655
Quick Reference Scanner Guide	D081-7666
Manuals for Users	D081-7726
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
Manuals for Administrators	D081-7728
MP C6501SP/MP C7501SP	
Aficio MP C6501SP/MP C7501SP	
App2Me Start Guide	D085-7905B
To Users of This Machine	D029-7903
Notes for Users	D060-7782
Notes for Users	D081-7615
Notes for Users	D377-7250
Operating Instructions Notes On Security Functions	D081-7689
Notes for Administrators: Using this Machine in a Network	D081-7688
Environment Compliant with IEEE Std.2600.1 TM -2009	
Help	83NHBNENZ1.20
	v110
Quick Reference Fax Guide	D498-8508
Manuals	D377-7900A
DataOverwriteSecurity Unit Type H/I	

7. Evaluation conducted by Evaluation Facility and results

7.1 Evaluation Approach

Evaluation was conducted by using the evaluation methods prescribed in CEM in accordance with the assurance components in CC Part 3. Details for evaluation activities are reported in the Evaluation Technical Report. In the Evaluation Technical Report, it explains the summary of the TOE, the content of evaluation and verdict of each work unit.

7.2 Overview of Evaluation Activity

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

Evaluation has started on 2011-02 and concluded by completion of the Evaluation Technical Report dated 2011-09. The evaluator received a full set of evaluation deliverables necessary for evaluation provided by the developer, and examined the evidences in relation to a series of evaluation conducted. Additionally, for the procedural status in the development and manufacturing sites, conducted in relation to each work unit for the operation in life-cycle support, such as configuration management, delivery, and development security, the examination details on those of the past CC-certified products are reused.

Further, the evaluator executed the sampling check of the developer testing and the evaluator testing by using developer testing environment at developer site on 2011-05 and 2011-06.

7.3 IT Product Testing

The evaluator confirmed the validity of the testing that the developer had executed. Based on the evidence shown by the process of the evaluation and the verification results of the testing executed by the developer, the evaluator executed the repeat testing, additional testing, and penetration testing based on vulnerability assessments judged to be necessary.

7.3.1 Developer Testing

The evaluator evaluated the integrity of the developer testing that the developer executed and the testing documentation of actual testing results. It explains the content of the developer testing evaluated by the evaluator as follows.

(1) Developer Testing Environment Figure 7-1 shows the testing configuration used by the developer, and Table 7-1 shows the main configuration items.

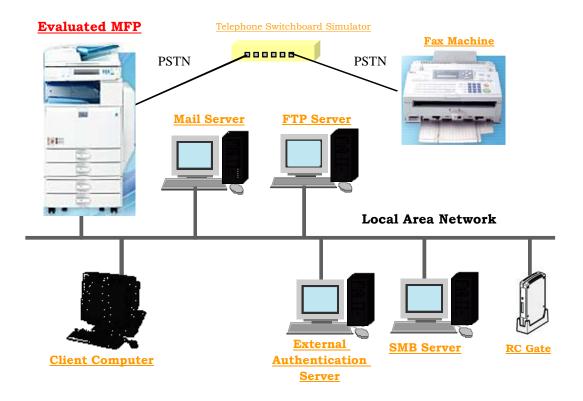


Figure 7-1 Configuration of the Developer Testing

Table 7-1 Test Configurations

Configuration Item	Detail
	- Ricoh Aficio MP C6501 SP
	- Ricoh Aficio MP C7501 SP
	- Fax Option Type C7501
	- DataOverwriteSecurity Unit Type H
	- HDD Encryption Unit Type A
	Version
	- Software version:
	System/Copy 1.03 Network Support 9.62
	Scanner 01.05 Printer 1.03
mo n	Fax 02.00.00 RemoteFax 02.00.00
TOE	Web Support 1.04 Web Uapl 1.01
	NetworkDocBox 1.01 animation 1.00
	PCL 1.08 OptionPCLFont 1.02
	Engine 1.07:06 OpePanel 1.04
	LANG0 1.03 LANG1 1.03
	- Hardware version:
	Ic Key 01020700 Ic Ctlr 03
	- Option version:
	GWFCU3-18(WW) 02.00.00
	Data Erase Opt 1.01x
	OS: Windows XP Pro SP3 / Windows Vista Business SP2
	Windows 7 Ultimate / Professional
Client Computer	Web browser: Internet Explorer 6/7/8
	Printer driver: PCL6 Driver Ver.1.2.0.0
	LAN-Fax driver: LAN FAX Driver Ver.1.65
SMTP Server	SMTP Server Function of Windows Server 2003 SP2
FTP Server	FTP Server Function of Windows Server 2003 SP2
SMB Server	SMB Server Function of Windows Server 2003 SP2
External	
Authentication	Windows Server 2008 SP2
Server	
Fax Machine	Ricoh imagio MP C3301SPF
	(MFP provided by RICOH with Fax Function was used.)
Telephone	WE At TO (D
Switchboard	XF-A150 (Panasonic Corporation)
Simulator	

Although the TOEs used in the developer testing are the models of several MFPs that are identified in the ST, their difference is printing speed, and the security functions are identical.

As mentioned above, the evaluator judged that the models of "Ricoh Aficio MP C6501 SP" and "Ricoh Aficio MP C7501 SP" selected as the target for the developer testing are

consistent with the descriptions in the ST and cover the TOE configurations identified in the ST. The evaluator also judged that the developer testing is executed in the same TOE testing environment as the TOE configuration identified in this ST.

(2) Summary of Developer Testing Summary of the developer testing is as follows.

(a) Developer Testing Outline

Outline of the developer testing is as follows.

<Developer Testing Approach>
The testing approaches consisted of:

- stimulating the assumed external interfaces (Operation Panel, Web browser, and so on) in normal use of the TOE, and visually observing the results
- analysing the generated audit log and the logging data for debug
- checking the communication protocols between client computers/each server and the TOE with packet capture
- executing anomaly simulation tests to generate abnormal events by altering a part of the TSF implementation, and so on

<Content of execution of the developer testing>

The expected values of testing results described in testing specifications which are provided in advance by the developer were compared to the values of the actual developer testing results described in the testing result reports which are also provided by the developer. As a result, it was found that the values of the actual testing results are in conformity to those of the expected testing results.

(b) Scope of Execution of the Developer Testing

The developer testing is executed on 791 items by the developer.

By the coverage analysis, it was verified that all security functions and external interfaces described in the functional specification had been tested. By the depth analysis, it was verified that all the subsystems and subsystem interfaces described in the TOE design had been sufficiently tested.

(c) Result

The evaluator confirmed an approach of the executed developer testing and legitimacy of tested items, and confirmed consistencies between testing approach described in the testing plan and actual testing approach.

The evaluator confirmed consistencies between the testing results expected by the developer and the actual testing results executed by the developer.

7.3.2 Evaluator Independent Testing

The evaluator executed the sample testing to reconfirm the execution of the security function by testing items extracted from the developer tests, and the evaluator executed the evaluator independent testing (hereinafter referred to as the "independent testing") to gain further assurance that security functions are certainly implemented, based on the evidence shown by the process of the evaluation.

The independent testing executed by the evaluator is explained below.

(1) Independent Testing Environment

The configuration of the testing executed by the evaluator was the same as the configuration of the developer testing as shown in Figure 7-1.

(2) Summary of Independent Testing

Summary of the Independent testing is as follows.

(a) Independent Testing Points of View

The points of view for the independent testing that the evaluator designed from the developer testing and the provided evaluation evidence materials are shown below.

<Independent Testing Viewpoints>

- 1. For TSFI that has many types of input parameters and to which the developer testing is insufficient in terms of completeness, the testing items such as parameter scheme, boundary values, and abnormal values are added.
- 2. For execution timing of several TSFs and combination of execution, the testing items to which conditions are added are executed.
- 3. The testing items to which the different variation from the developer testing is added are executed in regard to procedures of exception and cancellation.
- 4. The testing items are selected in the sampling testing from the following viewpoints:
 - The testing items are selected to include all of TSFs and TSFIs in terms of completeness.
 - The testing items are selected to cover the different testing approaches and testing environments.
 - The testing items involving TSFI that meet many of the SFRs are mainly selected in order to conduct tests efficiently.
 - Considering the functionality difference from the similar products that have been CC-certified, the testing items for TSFs which are newly added in this TOE are preferably selected.

(b) Independent Testing Outline

Outline of the independent testing that the evaluator executed is as follows.

<Independent Testing Approach>

In setting the different initialisation and the different parameters from the developer testing, the independent testing approaches consisted of:

- stimulating the assumed external interfaces (Operation Panel, Web browser, and so on) in normal use of the TOE, and visually observing the results
- analysing the generated audit log
- checking the communication protocols between client computers/each server and the TOE with packet capture, and so on

<Content of Execution of the Independent Testing >

Based on the viewpoints of the independent testing, 11 items for the independent testing and 25 items for the sampling testing are executed.

The outline of the main executed independent testing and corresponding viewpoints are shown in Table 7-2.

Table 7-2 Points of view for the Independent Testing

Points of view for the independent testing	Outline of the independent testing
1	- By changing the authentication method and
	conditions, confirmed that the behaviours concerning
	the user account lock were as specified.
2	- Confirmed that the lockout process of accounts was
	performed as specified while normal users and
	administrators simultaneously log on.
	- Confirmed that the behaviours were as specified when
	user accounts were deleted while login status was
	maintained or when user privileges were changed.
3	- Confirmed that the behaviours were performed as
	specified when accessing the TOE in the unexpected
	setting from drivers of client computers.
	- Confirmed that the exception procedures were
	performed as specified if the TOE's boot sequence
	started while the HDD data had been corrupted.
	- Confirmed that the variously assumed exception
	procedures were performed as specified when an
	external authentication server was used.
	- Confirmed that the S/MIME procedure was performed
	as specified when using the expired certificates.
	- Confirmed that the TOE's exception procedures were
	performed as specified when an unexpected access from
	the RC Gate was executed.
	- Confirmed, by the behaviours, whether any security
	problems existed in, when turning off the TOE during
	the job process, and then turning it on.

(c) Result

All the executed independent testing was correctly completed, and the evaluator confirmed the behaviour of TOE.

The evaluator confirmed consistencies between the expected behaviour and all the testing results.

7.3.3 Evaluator Penetration Testing

The evaluator devised and executed the necessary evaluator penetration testing (hereinafter referred to as the "penetration testing") to test items with the possibility of exploitable vulnerabilities in the assumed environment of use and attack level, based on the evidence shown by the process of the evaluation.

Penetration testing executed by the evaluator is explained below.

(1) Summary of the Penetration Testing

Summary of the penetration testing executed by the evaluator is as follows.

(a) Vulnerability of concern

The evaluator searched into the provided evidence and the public domain information for the potential vulnerabilities, and then identified the following vulnerabilities which require the penetration testing.

- 1. Unauthorised access to the TOE may be caused by unintentional network port interfaces.
- 2. Security Functions may be bypassed in case of entering data which has the unintentional values and formats of the TOE for interfaces.
- 3. There may be some vulnerabilities when implementing secure channels, and consequently the Security Functions of the TOE may be bypassed.
- 4. Security Functions may be bypassed by maintaining the TOE overloaded.
- 5. Security Functions may be bypassed if operation conflicts by multiple interfaces occur.
- 6. Security Functions may be bypassed due to the physical operations to the internal board.

(b) Penetration Testing Outline

The evaluators executed the following penetration testing to identify possibly exploitable vulnerabilities.

< Penetration Testing Environment>

The penetration testing configuration is identical with those of the developer testing shown in Figure 7-1, and evaluator independent testing.

Table 7-3 shows tools used in the penetration testing.

Table 7-3 Penetration Testing Tools

Name(Version)	Outline
Paros (3.2.13)	Inspection tool of Web vulnerabilities with Proxy traffic
nmap (5.00)	Port Scan Tool
Wireshark (0.99.8)	Packet Capture Tool

<List of Executed Penetration Testing>

Table 7-4 shows vulnerabilities concerned and the content of related penetration testing. The evaluator executed 12 test cases in the following penetration testing to identify possibly exploitable vulnerabilities:

Table 7-4 Outline of Executed Penetration Testing

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Points of view for the	Outline of the penetration testing
penetration testing	

1	Confirmed that the unnecessary network ports were not opened using the port scan tool. Also checked no
	vulnerabilities to unauthorised inputs for available ports.
2	Checked no publicly-known vulnerabilities on Web interfaces to access the TOE.
	Confirmed that the Security Functions may not be bypassed by the specified URL at the time of connecting to the TOE via a Web browser.
3	Checked no implementation-specific vulnerabilities regarding the encryption communication with SSL and
	IPsec. Confirmed that no implementation-specific vulnerabilities were identified when Windows authentication using Kerberos authentication was performed.
4	Confirmed that the TOE was not unsecured due to the overloaded CPU and insufficient resources.
5	Confirmed that Security Functions were not bypassed when user login was performed using multiple interfaces and user privileges were changed on various occasions.
6	Confirmed that the Security Functions may not be bypassed even if, in both cases, one FCU that has the different version, and the other FCU that has part of alteration are installed in the TOE.

(c) Result

In the penetration testing conducted by the evaluator, the evaluator could not find exploitable vulnerabilities that attackers could exploit who have the assumed attack potential.

7.4 Evaluated Configuration

In this evaluation, the configurations shown in Figure 7-1 were evaluated. IPv4 is used in the network. This TOE will not be used in the configuration which is significantly different from the above configuration components. Therefore, the evaluator determined the configuration of the above evaluation is appropriate.

7.5 Evaluation Results

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

In the evaluation, the followings were confirmed.

- PP Conformance:

2600.1, Protection Profile for Hardcopy Devices, Operational Environment A (IEEE Std 2600.1-2009)

The TOE also conforms to the following SFR packages defined in above PP.

- 2600.1-PRT, SFR Package for Hardcopy Device Print Functions, Operational Environment A
- 2600.1-SCN, SFR Package for Hardcopy Device Scan Functions, Operational Environment A
- 2600.1-CPY, SFR Package for Hardcopy Device Fax Functions, Operational Environment A
- 2600.1-FAX, SFR Package for Hardcopy Device Copy Functions, Operational Environment A
- 2600.1-DSR, SFR Package for Hardcopy Document Storage and Retrieval Functions, Operational Environment A
- 2600.1-SMI, SFR Package for Hardcopy Device Shared-medium Interface Functions, Operational Environment A
- Security functional requirements: Common Criteria Part 2 extended
- Security assurance requirements: Common Criteria Part 3 conformant

As a result of the evaluation, the verdict "PASS" was confirmed for the following assurance components.

- All assurance components of EAL3 package
- Additional assurance component ALC_FLR.2

The result of the evaluation is applied to the composed by corresponding TOE to the identification described in the Chapter 2.

7.6 Evaluator Comments/Recommendations

The evaluator recommendations for users are mentioned in the following functions:

- The following functions described in the guidance of this TOE are outside the scope of this evaluation:
 - Copy Guard Function
 - Access Control for each administrative role.

 (Device administrator, user administrator, network administrator, file administrator)
 - IP-Fax, and Internet Fax

$\hbox{-}\, App 2 Me$

Moreover, the following functions related to the maintenance functions that are deactivated in this TOE will be deactivated by the procedure of installation according to the guidance in the TOE.

- An access to TSF data by @Remote Function (A use with [Proh. Some Services] selected for machine action setting of @Remote is allowed)
- RFU (Remote Firmware Update)

8. Certification

The certification body conducted the following certification based on the materials submitted by Evaluation Facility during evaluation process.

- 1. Submitted evidential materials were sampled, the 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.

8.1 Certification Result

As a result of verification of submitted Evaluation Technical Report, Observation Report, and related evaluation deliverables, Certification Body determined that the TOE satisfies all components of the EAL3 and components ALC_FLR.2 in the CC part 3.

8.2 Recommendations

As shown in 1.1.3, it is assumed that the use of Maintenance Functions is deactivated as the evaluation environment of this TOE. If the Maintenance Functions are activated and used, the MFPs may not be considered as the TOEs.

It should be noted that the TOE users need to refer to the descriptions of "4.3 Clarification of Scope" and "7.6 Evaluator Comments/Recommendations" and to see whether or not the evaluated scope of this TOE and the operational requirement items can be handled in the actual operating environment of the TOE.

9. Annexes

There is no annex.

10. Security Target

Security Target[12] of the TOE is provided within a separate document of this certification report.

Aficio MP C6501/C7501 series Security Target Version 1.00 (September 15,2011) RICOH COMPANY, LTD.

11. Glossary

The abbreviations relating to CC 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
ST	Security Target
TOE	Target of Evaluation
TSF	TOE Security Functionality

The abbreviations relating to TOE used in this report are listed below.

HDD	An abbreviation of Hard Disk Drive; in this document, it indicates the HDD installed in the TOE if simply described as "HDD".
IPsec	Secure Architecture for Internet Protocol; a protocol that

provides the functions of data tampering prevention and data confidentiality with IP packets traffic using cryptographic technology.

MFP An abbreviation of a digital multifunctional product.

PSTN An abbreviation of Public Switched Telephone Networks.

An abbreviation of Remote Firmware Update; a function to remotely connect to the TOE and update firmware. (This

function is excluded from this evaluation.)

S/MIME Secure / Multipurpose Internet Mail Extensions; a standard for e-mail encryption and digital signatures with a public key

system.

The definitions of terms used in this report are listed below.

RFU

Administrative role Pre-defined roles that enable administrators to be given.

Although the following four types of administrative roles are defined and can be assigned to respective administrators, this TOE assumes the MFP administrator who is assigned to all the roles.

(The access control for each subcategorised administrative role is excluded from this evaluation.)

- Device administrator (executes device administration and audit)
- User administrator (executes the management of normal user)

- Network administrator (executes the network connection management of the TOE)
- File administrator (executes the management of stored documents and document user list)

App2Me

An application for client computers in order to support the MFP operations and settings.

Copy Guard Function

A function to protect the information data from leakage by document copy, by executing the process that corresponds to detection of peculiar markings printed in the background of the documents. (This function is excluded from this evaluation.)

Documents

General term for paper documents and electronic documents operated by the TOE.

Internet Fax

A function to perform the fax communications with the system of sending or receiving e-mails. It also uses the Internet lines.

IP-Fax

A generic term of Realtime-Internet Fax of RICOH, conformant with the International Standard ITU-T T.38. Assigns IP address to a fax that is connected to a telephone line.

Kerberos

Authentication

One of the network authentication methods. Although there are several network authentication methods using external authentication servers, only Windows authentication using Kerberos authentication is covered by this evaluation.

LAN-Fax Transmission

One of Fax Functions. A function that transmits fax data and stores the documents using the fax driver on client computers.

Lockout

The state of making the user accounts unavailable.

Lockout time

The time from being locked out to automatically releasing the user accounts.

Login password

A password corresponding to each login user name.

Login user name

An identifier assigned to normal users, an MFP administrator, and a supervisor. The TOE identifies users by this identifier.

Maintenance Function

A function to perform maintenance service for machine malfunctions. In this TOE operation, the Service Mode Lock Function is set to "ON" for deactivating this function.

Number of Attempts before Lockout The number of failed consecutive attempts to identify and authenticate users that is allowable until locking out the

The MFP administrator can assign 1 to 5 as a setting value at the initialisation of the TOE, which shall not be changed after setting the value.

@Remote

General term for remote diagnosis maintenance services for

the TOE via the Internet. The purpose of the remote operation includes the functions such as remote failure diagnosis, counter information collection, and toner information collection.

(Note that remote failure diagnosis is excluded from this evaluation.)

Stored Documents

Documents stored in the TOE so that they can be used with Document Server Function, Printer Function, Scanner Function, and Fax Function.

User job

A work, from beginning to end, for each of the following TOE functions: Copy, Document Server, Scanner, Printer, and Fax. A user job may be paused or cancelled during the process by a user. If a user job is cancelled, the user job will end.

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