Security White Paper for RICOH Smart Presenter

Solution Support Department Service and Support Center Global Marketing Group Ricoh Company, Ltd.

Document version: 1.0

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Document version history:

Version	Date of Issue	Revision
1.0	March, 2013	1 st Release

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1. Introduction

RICOH Smart Presenter is a paperless meeting solution comprised of two components: the RICOH Conference Center and the RICOH Smart Presenter app. It allows tablet displays to be used for presentation document distribution without the need to print paper copies of the documents.

There are two usage options available: with or without RICOH Conference Center.

When using RICOH Conference Center, meeting information can be registered in advance, and meeting documents can be uploaded from any PC web browser. Meeting participants can easily join a meeting and access the uploaded meeting documents, as well as make, share, and export notes by using the RICOH Smart Presenter app.

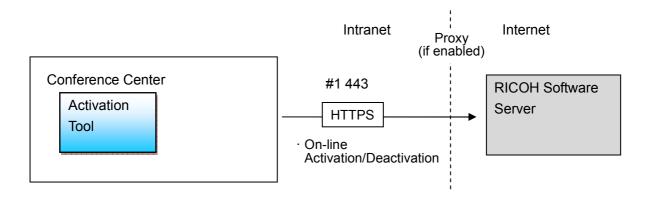
In addition, RICOH Smart Presenter can be displayed by using a wireless RICOH projector.

This document is designed to describe the product's functions with regards to network and data security. As Ricoh products are designed for use inside an intranet where network clients are protected by firewalls, they rely heavily on intranet security policies. This document focuses on providing the information necessary to protect against potential threats from external security risks and help customers to securely incorporate the Ricoh product into their system.

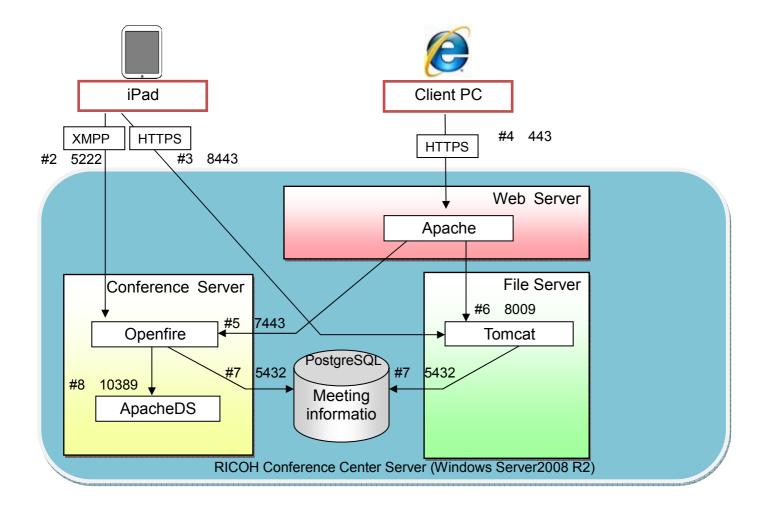
2. System

These diagrams show the general data flow for RICOH Smart Presenter.

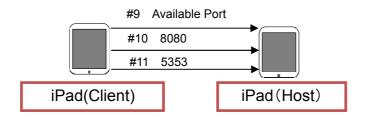
2.1. Internet Communication Diagram

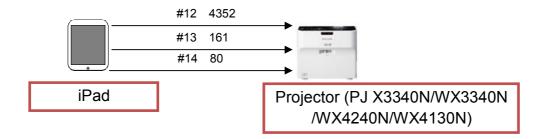


2.2. Intranet Communication Diagram (Planned Meetings)



2.3. Intranet Communication Diagram (Casual Meetings)







3. Data Flow

3.1. Internet Communication Data Flow

Data Flow	#	Functions	Data	
RICOH Conference Center 1 A		Activation/Deactivati	Product Key, Lock Code, License File,	
-> RICOH Software Server		on	Country Information	

3.2. Intranet Communication Data Flow (Planned Meetings)

[iPad -> RICOH Conference Center Server]

Data Flow	#	Functions	Data	
iPad -> Conference server	2	Manage meetings.	Meeting list, meeting ID, password, shared	
			page number, shared notes data.	
iPad -> File server	3	Get meeting	PDF files.	
		documents.		

[Client PC -> RICOH Conference Center Server]

Data Flow		Functions	Data	
Web browser ->	4	Manage planned	Application used to manage, edit and	
Administrator tool,		meetings	reserves meetings.	
Conference Center				
(Meeting Management,				
Meeting list)				

[RICOH Conference Center Internal Communication]

Data Flow	#	Functions	Data	
Web Server -> Conference	5	Control meeting	Meeting list, meeting ID, meeting	
Server		information.	information.	
Web Server -> File Server	6	Control meeting	Meeting documents.	
		documents.		
Conference server, File	7	Control meeting	Information to reserve/open/participate in	
Server -> PostgreSQL		information.	meetings.	
Conference server ->	8	Control account	Account information.	
Apache DS		information.		

3.3. Intranet Communication Data Flow (Casual Meeting)

[iPad(Client) -> iPad(Host)]

Data Flow	#	Functions	Data	
iPad(Client) ->	9	Manage meetings.	Information to open/share	
iPad(Host)			information/exit/participate in meetings.	
			Meeting ID, meeting password, shared page	
			number, shared notes data, etc.	
iPad(Client) ->	10	Get meeting	PDF files.	

iPad(Host)		documents.	
iPad(Client) -> 11		Get device name.	Meeting list, members list.
iPad(Host)			

[iPad -> Projector]

Data Flow	#	Functions	Data	
iPad -> Projector	12,13,	Set/get projector	Projector settings.	
	15,17	information	Keep data connection alive.	
iPad -> Projector	14,16	Project to projector	Projection image data.	

4. Protocols and Ports

4.1. Activation Tool

Activation/deactivation is internet-based, so this communication must pass through the proxy server, if one is in use.

#	Communication Path	Protocol	Port	Encryption	Notes
1	Confirm the request for Activation/Deactivation. (RICOH Conference Center -> Ricoh Software Server)	HTTPS	TCP/433	Y	If the port is set in [Proxy Settings], the set port will be used.

4.2. Planned Meetings

[iPad -> RICOH Conference Center Server]

#	Communication Path	Protocol	Port	Encryption	Notes
2	Access Conference Server from iPad.	XMPP	5222	Υ	Received module: Openfire (Ver3.7.1)
3	Access meeting documents from iPad.	HTTPS	8443	Υ	Received module: Tomcat (Ver7.0.27)

[Client PC -> RICOH Conference Center Server]

#	Communication Path	Protocol	Port	Encryption	Notes
4	Access Administrator tool, Conference Center (Meeting Management, Meeting list) from PCs.	HTTPS	433	Υ	Received module: Apache (Ver2.2.22)

[RICOH Conference Center Internal Communication]

#	Communication Path	Protocol	Port	Encryption	Notes
5	Access Conference Server from Administrator tool or Conference Center (Meeting Management, Meeting list).	Bosh	7443	Y	Received module: Openfire (Ver3.7.1)
6	Access meeting documents from Administrator tool or Conference Center (Meeting Management, Meeting list).	Ajp	8009	N	Received module: Tomcat-Apache (Ver7.0.27)
7	Access DB from Conference Server and File server (Internal processing)	Postgre SQL	5432	N	Received module: PostgreSQL (Ver9.1.3-1)
8	Access LDAP server from Conference Server (Internal processing)	LDAP	10389	N	Received module: ApacheDS (Ver2.0.0-M7)

4.3. Casual Meetings

[iPad(Client) -> iPad(Host)]

#	Communication Path	Protocol	Port	Encryption	Notes
---	--------------------	----------	------	------------	-------

9	iPad(Client) -> iPad(Host)	XMPP	49152~6 5535 (Availabl e ports)	N	Access HostController
10	iPad(Client) -> iPad(Host)	HTTP	8080	N	Access WebDAV
11	iPad(Client) -> iPad(Host)	UDP	5353	N	Bonjour

[iPad -> Projector]

#	Communication Path	Protocol	Port	Encryption	Notes
12	iPad -> Projector	PjLink	4352	N	Pjlink (Projector)
13	iPad -> Projector	SNMP	161	N	MIB (PJ X3340N/WX3340N/WX4240N/ WX4130N)
14	iPad -> Projector	HTTP	80	N	Projection (PJ X3340N/WX3340N/WX4240N/ WX4130N)
15	iPad -> Projector	TCP	2014	N	Get information (PJ WX3230N/X3240N/WX3231N/X 3241N)
16	iPad -> Projector	TCP	2013	N	Projection (PJ WX3230N/X3240N/WX3231N/X 3241N)
17	iPad -> Projector	UDP	2012	N	Keep-alive (PJ WX3230N/X3240N/WX3231N/X 3241N)

5. Stored Data

5.1 Stored Data (RICOH Smart Presenter)

Data	Item	Security Note
RoomServices	Access Control	None.
	Encryption	Not encrypted.
	Back up	None.
	Log Entry	None.
	Remarks	The data of meeting list and restoration.
		A planned meeting password is included. Access to the data
		can only be made via the application.
		[File Path]
		<a a="" href="mailto:specification_</td></tr><tr><td>ConferenceData</td><td>Access Control</td><td>None.</td></tr><tr><td></td><td>Encryption</td><td>Not encrypted.</td></tr><tr><td></td><td>Back-up</td><td>None.</td></tr><tr><td></td><td>Log Entry</td><td>None.</td></tr><tr><td></td><td>Remarks</td><td>The meeting data of a held meeting.</td></tr><tr><td></td><td></td><td>ConferenceData is deleted when a user exits a meeting.</td></tr><tr><td></td><td></td><td>If the application crashes, ConferenceData is retained and</td></tr><tr><td></td><td></td><td>restored when the application is restarted.</td></tr><tr><td>Meeting</td><td>Access Control</td><td>None.</td></tr><tr><td>Documents (temp)</td><td>Encryption</td><td>Not encrypted.</td></tr><tr><td></td><td>Back-up</td><td>None.</td></tr><tr><td></td><td>Log Entry</td><td>None.</td></tr><tr><td></td><td>Remarks</td><td>[File Path]</td></tr><tr><td></td><td></td><td>- Downloaded meeting documents (PDF):</td></tr><tr><td></td><td></td><td><a href=" mailto:<=""> Application_Home/tmp/ConferenceData/<meetingid>/do</meetingid>
		cuments/
		- thumbnail png: <application_home>/tmp/</application_home>
		This data is deleted when a user exits a meeting.
		If the application crashes, this data is retained and restored
		when the application is restarted.
Meeting	Access Control	None.
Documents	Encryption	Not encrypted.
(data)	Back-up	None.
	Log Entry	None.
	Remarks	[File Path]
		<application_home< a="">/Documents/</application_home<>
		Documents added when preparing a casual meeting and
		added during an active meeting.
		It can be added via Safari or iTunes.
		It can be added and deleted by users.
ServerSetting	Access Control	None
	Encryption	Not encrypted.
	Back-up	None.
	Log Entry	None.

Remarks	The address and name of Conference Center server.
	This data is retained if the application is shut down.

5.2 Stored Data (RICOH Conference Center)

Item	Security Note
Access Control	A fixed PostgreSQL Administrator Account/Password
	is used to access the PostgreSQL. The DB is
	protected by a password.
Encryption	Not encrypted.
Back-up	None.
Log Entry	None.
Remarks	Data for planned meetings.
	It will be deleted when the meeting is deleted.
Access Control	Any Conference Center server user account.
Encryption	Not encrypted.
	Obfuscated by changing extension.
Back-up	None.
Log Entry	None.
Remarks	It will be deleted when the meeting is deleted.
Access Control	Any Conference Center server user account.
Encryption	Not encrypted.
	Obfuscated by changing extension.
Back-up	None.
Log Entry	None.
Remarks	It will be deleted when the meeting is deleted.
Access Control	A fixed Account/Password of ApacheDS is used to
	access the ApacheDS. The data is protected by a
	password.
Encryption	The password is encrypted.
Back-up	None.
Log Entry	None
Remarks	None
A O t 1	
Access Control	Any Conference Center server user account.
Encryption	Any Conference Center server user account. The files are not encrypted.
	The files are not encrypted.
	The files are not encrypted License Code file: Encrypted license code is
	The files are not encrypted. - License Code file: Encrypted license code is recorded.
	The files are not encrypted. - License Code file: Encrypted license code is recorded. - Deactivation information file: Encrypted license
	The files are not encrypted. - License Code file: Encrypted license code is recorded. - Deactivation information file: Encrypted license code is recorded.
	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted.
	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not
Encryption	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted.
Encryption Back-up	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted. None.
Encryption Back-up Log Entry	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted. None.
Encryption Back-up Log Entry Remarks	The files are not encrypted. - License Code file: Encrypted license code is recorded. - Deactivation information file: Encrypted license code is recorded. - Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted. None. None.
Back-up Log Entry Remarks Access Control	 The files are not encrypted. License Code file: Encrypted license code is recorded. Deactivation information file: Encrypted license code is recorded. Activation Tool settings file: The password of the Proxy authentication is encrypted. Others are not encrypted. None. None. Any Conference Center server user account.
	Encryption Back-up Log Entry Remarks Access Control Encryption Back-up Log Entry Remarks Access Control Encryption Back-up Log Entry Remarks Access Control Encryption Back-up Log Entry Remarks Access Control Encryption Back-up Log Entry Remarks Access Control

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Log Entry Remarks [File Path] - Apache: <system drive="">:\text{Program Files} (x86)\text{\tilit{\tex</system>		Encryption	All files are encrypted.		
Remarks [File Path] - Apache: <system drive="">:\text{\text{\text{Program Files}}} (x86)\text{\tex{\tex</system>		Back-up	None.		
- Apache: <system drive="">:\Program Files (x86)\PRICOH\PRICOH Conference Center\Perpande Apache Software Foundation\Perpande Apache2.2\Perpande conf\Perpande ssl.key <system drive="">:\Program Files (x86)\Perpande RICOH\Perpande RICOH Conference Center\Perpande Apache</system></system>		Log Entry	None.		
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