

Document Capture Pro Server

Security White Paper

Contents

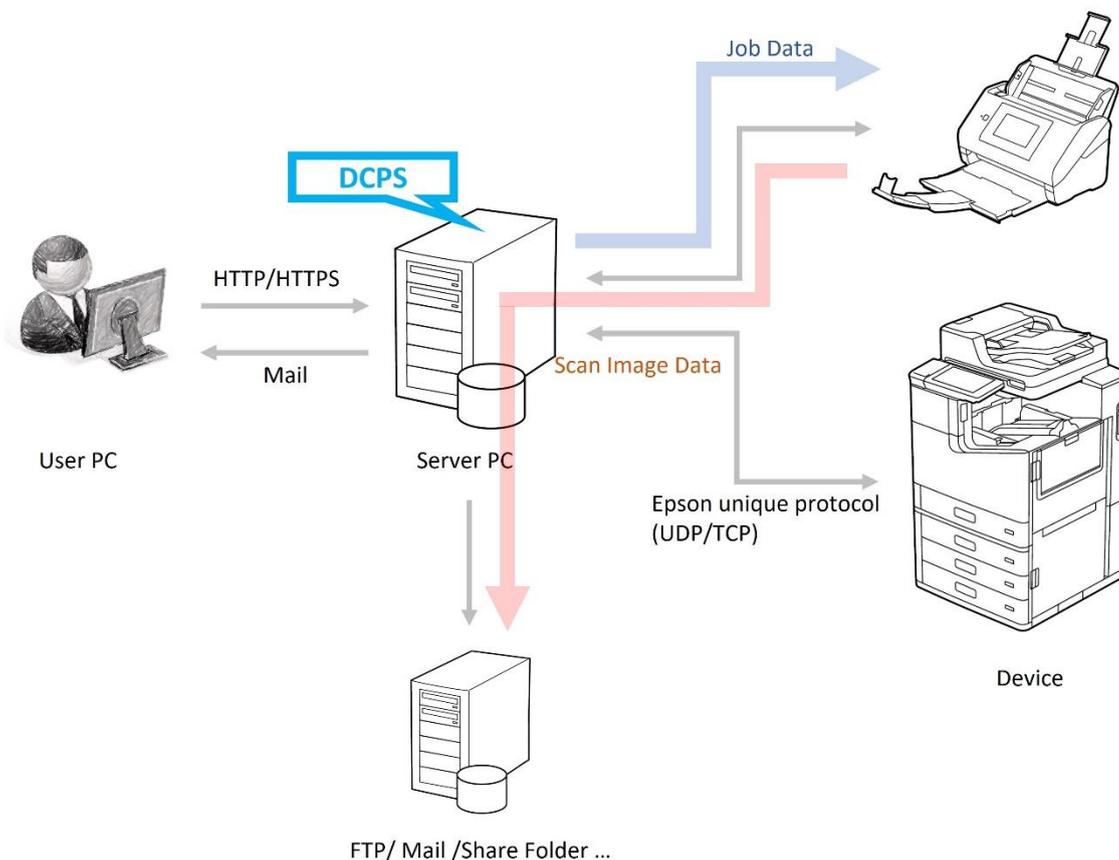
Document Capture Pro Server	3
Overview	3
Communication with the device.....	4
Network protocols.....	4
Security	4
Transfer of scan results	5
Network protocols.....	5
Security	5
Appendix.....	6
Network protocols and ports	6
Trademarks.....	7

Document Capture Pro Server

Overview

Document Capture Pro Server (DCPS) is software that allows you to control multiple devices (scanners or multi-function devices) over a network through a server. You can scan using a device that is being controlled in Document Capture Pro Server by simply selecting a job.

Document Capture Pro Server AE (DCPS AE) is software that the authentication function is added to Document Capture Pro Server.



This document is intended to provide information about various aspects of security so that you can feel secure using DCPS/DCPS AE. The user is responsible for building and maintaining the optimum security environment to use DCPS/DCPS AE, while Epson's role is limited to providing information.

The information consists of following category.

- ❑ Communication with the device
- ❑ Transfer of scan results

Communication with the device

DCPS and the device communicate using Epson's unique protocol. DCPS sends job data to the device. When performing a scan, the device sends the image data to DCPS.

DCPS AE also communicates user authentication information.

Network protocols

Usage	Protocol	Ports	IN/OUT
Computer's information acquiring request	Epson unique (UDP)	2968	IN
Computer's information acquiring response	Epson unique (UDP)	2968	OUT
Scan data and Job information	Epson unique (TCP)	1865	IN
Scan data and Job information	Epson unique (TCP)	1865	OUT
Job information	Epson unique (TCP)	2968	IN
Job information	Epson unique (TCP)	2968	OUT

DCPSAE authentication communication

Usage	Protocol	Ports	IN/OUT
Authentication, usage history acquisition, use restriction setting	HTTPS(TCP)	443	OUT
Device discovery, Device information acquisition	SNMP(UDP)	161	OUT
Device panel display	HTTPS (TCP)	443	IN

Security

The job data sent to the device is only the information displayed on the panel and does not include the account information of destination.

Transfer of scan results

DCPS supports the following forwarding destinations.

Types	Descriptions
FTP	Uploads the image to a specified FTP server.
E-mail	Attaches the image and sends the email.
Folder	Save in a folder on the server in which Document Capture Pro Server AE is installed, or in a Windows shared folder.
Printer	Prints the image using the specified Epson printers. Available printer functions differ depending on the printer being used. Epson Printer driver need to be installed on Document Capture Pro Server AE host computer.
Microsoft(R) SharePoint(R) Server	Uploads the image to a specified Microsoft(R) SharePoint(R) Server.
Web Folder (Web DAV)	Uploads the image to a specified Web server.

Network protocols

The protocols and ports used by each forwarding destination are as follows.

Types	Protocol	Port	IN/OUT
FTP	TCP	20,21	OUT
E-mail	SMTP (TCP) /POP(TCP)	25,465 /110,995	OUT
Folder	SMB	137,139,445	OUT
Printer	-	-	-
Microsoft(R) SharePoint(R) Server	HTTP(TCP)	80	OUT
Web Folder (Web DAV)	HTTP(TCP)	80	OUT

Security

Only image data and index files are sent to the destination.

Appendix

Network protocols and ports

The following is the complete list of network protocols and ports DCPS and DCPS AE use.

	Category	Usage	Protocol	Port	IN/OUT
DCPS & DCPS AE	Access to the Web UI	User, Administrator menu	HTTP(TCP)	80* ¹	IN
			HTTPS(TCP)	443* ^{1*3}	IN
	SMTP Server	Email transmission	SMTP (TCP)	25* ⁵	OUT
			SMTP (TCP)	465* ^{3*5}	OUT
		POP before SMTP connection	POP (TCP)	110* ⁵	OUT
			POP (TCP)	995* ^{3*5}	OUT
	Communication with the device	Computer's information acquiring request	Epson unique (UDP)	2968	IN
		Computer's information acquiring response	Epson unique (UDP)	2968	OUT
		Scan data and Job information	Epson unique (TCP)	1865	IN
		Scan data and Job information	Epson unique (TCP)	1865	OUT
		Job information	Epson unique (TCP)	2968	IN
		Job information	Epson unique (TCP)	2968	OUT
	Transfer of scan results	Folder	SMB	137,139,445	OUT
		Mail	SMTP (TCP)	25,465 /110,995	OUT
		Print	-	-	-
		FTP	TCP	20,21	OUT
		WebDAV	HTTP(TCP)	80	OUT
		Microsoft SharePoint	HTTP(TCP)	80	OUT
DCPS AE only	Authentication	Authentication, usage history acquisition, use restriction setting	HTTPS(TCP)	443	OUT
		Device discovery, Device information acquisition	SNMP(UDP)	161	OUT
		Device panel display	HTTPS (TCP)	443* ²	IN
	SQL Server	SQL server connection	SQL (TCP)	1433	OUT
			SQL (UDP)	1434	OUT
	LDAP Server	User information acquisition	LDAP (TCP)	389* ⁴	OUT
			LDAP (TCP)	636* ^{3*4}	OUT

*1 The default port number. The actual port number is set to the user for the URL of the authentication system.

*2 The default port number. The actual port number is set to the control panel for the URL configuration of the authentication system.

*3 The port number when using encryption.

*4 The default port number. If you want to change the port number, set the number that is used by the LDAP server configuration of the authentication system.

*5 The default port number. If you want to change the port number, set the number that is used by the SMTP server configuration of the authentication system.

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