

Document Capture Pro Server

Security White Paper

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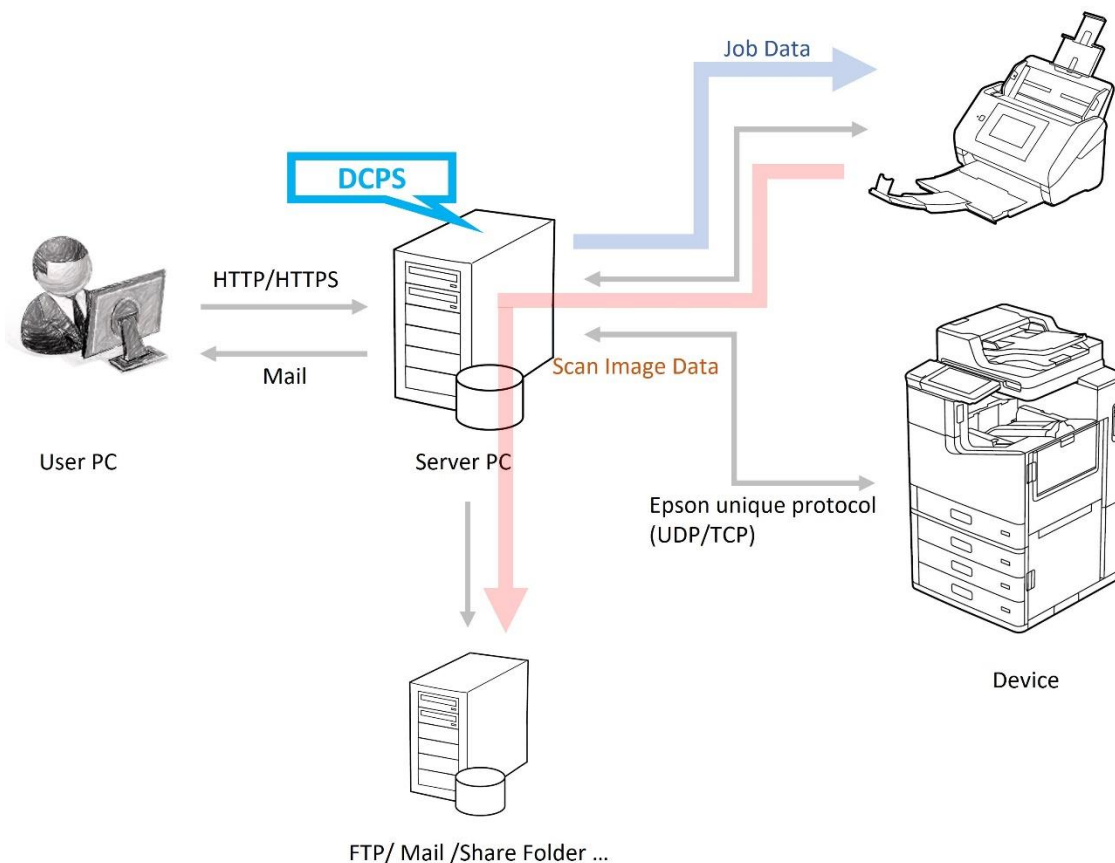
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Document Capture Pro Server

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. 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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