

## SECURITY SUITE

error\_reporting(E\_ALL ^ E\_NOTICE);

POST /DataRetrieve HTTP/1.1

Host: 192.168.1.1

Content-Type: application/soap+xml; charset=utf-8

Content-Length: 3932

<?xml version="1.0"?>

<soap:Envelope soap:encodingStyle="">

<soap:Body xmIns:m="http://192.168.1.1/loc"> 1010101010

10101

<m:SecurityArray>

<m:PasswordIn>\*\*\*\*\*</m:PasswordIn>

</m:SecurityArray>

</soap:Body>

VERSION 1.05

## SHARP—A LEADER IN MFP & PRINTER SECURITY SYSTEMS

Our information and instant-communication world is filled with a vast array of technologies where all types of devices create, share, store, and transmit data. Technology plays a critical role, contributing to profitability in today's highly competitive business landscape and to the speed and richness of content available to personal communications. And while this has revolutionized the way in which we transact business and personal relationships, it has also created concerns for those who require that their information remain confidential and safe.



## THE SHARP SECURITY SUITE

"The explosion of networked peripherals (hardwire or wireless) and mobile devices has added additional strain on IT to securely monitor and manage hardcopy peripherals ...".

"Authentication, authorization, and security remains the hottest subsegment ...".

"The picture in the United States resembles the worldwide forecast, with authentication, authorization, and security being the catalyst for high growth during the forecast period."

MARKET ANALYSIS: Worldwide and U.S. Document Solutions 2012 – 2016 Forecast, Ron Glaz Source: IDC #238404 At Sharp Electronics Corporation, we are aware of the challenges in keeping our customers' data and information secure and free from malicious attempts to steal, illegally modify, intercept, or disseminate confidential documents, or gain unauthorized access to private and business networks. We are focused on protecting our customers' information assets from common vulnerabilities associated with unsecured MFPs and printers, including:

- Loss of productivity
- Regulatory non-compliance
- Loss of access
- Stolen information
- Lawsuits
- · Unauthorized use of equipment and network resources

To address our customers' concerns we implement an iron-clad, multi-layered approach. The Sharp Security Suite provides protections that help ensure data and information security, access control security, network security, fax security, document security, and audit trail security.

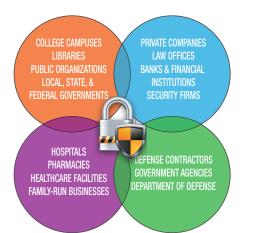
We are proud of our long history of accomplishments in designing printers and MFPs that meet the most demanding security needs of our commercial and government clients. Sharp was a leader in addressing security in digital imaging and received the first Common Criteria Validation for an MFP in 2001. Today, Sharp remains a highly rated company and is regarded as one of the industry's greatest security innovators. Businesses and government agencies worldwide have come to depend on this level of assurance, which Sharp pioneered and for which it continues to set the benchmark.

Information in this brochure will provide you with a good understanding of Sharp MFP and printer security features and how you can implement these features to help protect your important information.





## **INTEGRATING MFP & PRINTER SECURITY INTO YOUR NETWORK**



## THE DRIVING FORCE—CRITICAL INFORMATION AND VERTICAL MARKETS

Security is important to any person who wants their data to remain confidential. MFP and printer security is of critical importance to IT organizations planning to place these devices on their networks. Their main concern is that the MFP or printer does not allow for malicious access to their network infrastructure and the data that courses through it. Sharp MFPs and printers offer exceptional security and peace-of-mind when it comes to protecting that data.

### ORGANIZATIONS



College Campuses, Libraries, Public Organizations, Local Governments

#### **CRITICAL INFORMATION**

Student Records, Social Security Numbers, Addresses, Local Government Documents, Police Reports, Contracts, Legal Documents



Private Companies, Law Offices, Financial Institutions

#### **CRITICAL INFORMATION**

Employee Records, Payroll Information, Corporate Accounting and Financial Records, Tax Documents, Legal Documents, Case Information



Hospitals, Pharmacies, Healthcare Facilities

#### **CRITICAL INFORMATION**

Private Patient Records, Health Histories, Medication Records, Social Security Numbers, Treatment Records, Billing/ Payment Information



Defense Contractors, Government Agencies, Department Of Defense

#### **CRITICAL INFORMATION**

Classified Military Communications, Confidential Proposal and Bid Information, Military Contracts, Personnel Records, Payroll Information







## INDUSTRY SPECIFIC CONCERNS

Ensuring data security and information confidentiality is often driven by IT security guidelines; however, certain types of organizations must employ security and information protection measures mandated by law, standards and regulating agencies, or by the federal government.

#### HEALTHCARE

Doctors, hospitals, insurance companies, nursing facilities, and other care providers must protect patient information, health histories, medication records, billing and insurance information, and other electronic healthcare transactions. Each of these entities must abide by the dictates of the **Health Insurance Portability and Accountability Act (HIPAA)**.

#### FINANCIAL

Banks, financial institutions, brokerage houses, and investment organizations are guided by the **Gramm-Leach-Bliley (GLB)** and **Sarbanes-Oxley Acts** to protect confidential records, transactions, and customer information.

#### GOVERNMENT

Federal agencies, government offices, and defense department entities have strict data security mandates outlined in standards, specifications, and directives. Among the most stringent, and applicable to MFPs and printers are **ISO 15408 Common Criteria (CC) Evaluation Assurance Level (EAL)**, the **National Institute for Standards and Technology (NIST)**, and **Homeland Security Presidential Directive 12 (HSPD-12)**.

## SECURITY CHECKLIST

Che	eck Your MFP's Configuration—Help Ensure Maximum Security								
~	Implement access control (Active Directory <sup>®</sup> authentication, proximity cards, CAC, PIV cards and strong passwords).								
$\checkmark$	Limit users who have administrator's rights.								
$\checkmark$	Change the MFP's administrator password to something other than the default.								
$\checkmark$	Close unused ports and disable unneeded network services and protocols.								
$\checkmark$	Use IP and MAC address filtering to limit access to the MFP to only necessary PCs.								
$\checkmark$	Install a Data Security Kit (DSK) or configure built-in data security features.								
$\checkmark$	<b>Enable the SSL protocol as required</b> for HTTPS and IPPS web access and internet printing support.								
$\checkmark$	Ensure that users are assigned to properly configured Authority Groups.								
$\checkmark$	Disable unused device functions.								
$\checkmark$	Periodically check job logs for suspicious activity.								
$\checkmark$	Enable POP3 and SMTP authentication if possible.								
$\checkmark$	Change the MFP's SNMP community name from its default "public".								
~	Do not "publish" an MFP's IP address outside your organization's firewall unless a very strong administrative password has been set.								



## **ADDRESSING THREATS**

Security-conscious organizations will ensure that their network and computing assets are protected with the latest technology. Firewalls will be installed. Password rules will be enforced. User authentication will be required. Transmitted data will be encrypted and electronically signed.

The same security-conscious organizations will understand that today's intelligent multifunction devices (MFPs) and printers have evolved to have many of the same data communications and information storage capabilities found on personal computing devices that are already strictly controlled and secured.

These organizations will employ MFPs and printers that offer the advanced data, device, communication, and information security features found on Sharp equipment.

Hard Drive Overwrite

- Access Control
- Port / Service / Enabling / Disabling
- Authentication Data Encryption
- Secure Networking Protocols
- IP / Mac Address Filtering
- Encrypted PDF

#### TYPICAL VULNERABILITIES AND SHARP'S COUNTER-MEASURES

#### WRONGFUL DISTRIBUTION OR VIEWING OF CONFIDENTIAL INFORMATION

Printed documents collecting in an MFP's output tray present a risk for unauthorized dissemination of critical information.

Sharp's MFPs help mitigate this issue with features such as print retention and user authentication.

#### **IMPROPER ROUTING OF SENSITIVE INFORMATION**

Legal contracts scanned to the wrong network folder may allow client data to fall into the wrong hands.

Sharp's latest generation of MFPs employs a scan-to-home feature that helps ensure that scanned images are stored appropriately.

#### UNAUTHORIZED ACCESS TO USER DATA STORED ON AN MFP

Persons with malicious intent may try to access sensitive user information and address book listings stored on an MFP's hard drive.

Sharp MFPs help address this threat with secure administrative passwords, IP and MAC address filtering, and multiple means of user authentication.

#### **IMPLEMENTING ADDITIONAL SECURITY WITH SHARP'S DATA SECURITY KIT (DSK)**

The information security needs of many environments will be met with the extensive standard security features available on Sharp's MFPs and printers. However, certain end-customers will require the additional security assurance provided by Sharp's Data Security Kit. The optional DSK brings device security to a higher level with features such as manual data overwrite and overwrite at power-up, CAC authentication (with an optional MX-EC50 Card Solution Kit), restrictions on the printing of lists that contain sensitive device and account information, and hidden pattern printing and detection.

And for MFP or printer placements in government offices, military bases, embassies, defense contractors, or anywhere that optimal security is required, Sharp's Common Criteria (CC) certified DSKs have been tested and certified to Evaluation Assurance Level (EAL) 3 according to the internationally-recognized ISO (International Standard Organization).



## **SECURITY FEATURES AT-A-GLANCE\***

To help protect against physical and network security threats, Sharp MFPs and printers employ a multi-layered approach collectively known as the Sharp Security Suite. The security suite helps ensure that Sharp devices can be deployed with confidence as integral components within your information sharing infrastructure without compromising your company's security policies and practices.

Sharp's MULTI-LAYER PROTECTIVE SECURITY SHIELD consists of:

- DATA & INFORMATION SECURITY
- ACCESS CONTROL SECURITY
- NETWORK SECURITY
- DOCUMENT SECURITY
- FAX SECURITY
- AUDIT TRAIL SECURITY

#### DATA AND INFORMATION SECURITY

Sharp MFPs provide a wide range of data security capabilities either as an integral part of the device's architecture, or as a function of an optional Data Security Kit (DSK)

- Automatic Data Overwrite Manual Data Overwrite\*\*
- Power-Up Data Overwrite\*\*
- Up To 10-Times Data Overwrite 256-Bit AES Data Encryption
- Custom and DoD 5200.22-m Preset Patterns

#### ACCESS CONTROL SECURITY

Sharp MFPs can be configured to help provide iron-clad user access control.

- User Authentication (Local Address Book/LDAP)
- Management of Currently Loaaed-In Users
- USB Card Reader Support
- CAC/PIV Authentication Capability\*\*
- (Global Address Book) Group Authorization
- Page Limit Control

User Authentication

- Secured Administrative Access to Device Home Page Administrator and User
- User Authority Setting

#### NETWORK SECURITY

Beyond simply protecting MFP access with passwords and various forms of authentication, Sharp MFPs support many methods of access control and means to "lock down" a device.

- TLS Encryption (2048bit Key)
- · Security Policy Management (HASH Level Setting)
- SNMPv3 Support
- Kerberos Support
- SNMP Community Name Support
- - IPv6 and IPsec
    - Device Certificates
    - IP Address Filtering
    - MAC Address Filtering
    - Port Control
    - IEEE 802.1X<sup>™</sup> Authentication

# Security Suite

#### FAX SECURITY (Fax Option Required)

Customers who have Sharp MFPs equipped with the fax option can be assured that the architecture of the MFP provides a logical separation between the fax telephone line and the Local Area Network (LAN).

- End-Of-Lease Feature
- Prevention of Junk Fax

Confidential Fax

#### **DOCUMENT SECURITY**

Protecting data on an MFP is only part of what's required to ensure complete end-to-end document security. Sharp MFPs employ a number of means to help assure customers that their document data will remain confidential.

- Secure Print Release with a PIN Number
- Encrypted PDF
- Encrypted PDF Lockout
- Tracking Information Print
- Hidden Pattern Print and Detection\*\*
- MX-SW100 or Partner Program Applications
- · Job Status Display Only For Logged-On User
- Secure Pull Print FTP/SMB

#### AUDIT TRAIL SECURITY

Sharp MFPs offer extensive internal logging, and in conjunction with the Sharp Remote Device Manager (SRDM) application, a large number of important job details can be tracked. Audit tracking is often a critical component requested in bids and solicitations. Information that Sharp MFPs can provide include:

- Job Log and Usage Tracking
- Reporting and Data Export In .CSV and .XML Formats
- Advanced Audit Trail Applications
- Program Partner Applications
- · Administrator Audit Log

\* Based on security features of MX-2640N/3140N/3640N. \*\* Data Security Kit (DSK) feature.

- Scan-To-Home and Scan-To-Me
- Restrict List Printing\*\*
  - Disable Destination Selection
  - Disable Address Book Registration
  - · Receipt Rejection from Specified
  - Sender(s)

## SECURITY FEATURE COMPATIBILITY (MONOCHROME)

	MX-B201D	MX-M232D	MX-M264N /M314N/M354N	MX-B402/B402SC	MX-M283/ M363/M453/ M503	MX-M364N/ M464N/M564N	MX-M365N/M465N/ M565N	MX-M654N/ MX-M754N	MX-M623/ M753	MX-M904/ M1054/M1204
General MFP Features/Functions										
Speed Hard Disk Drive	20 ppm	23 ppm	26/31/35 ppm Avail	40 ppm Yes	28/36/45/50 ppm Yes	36/46/56 ppm Yes	36/46/56 ppm Yes	65/75 ppm Yes	62/75 ppm Yes	90/105/120 ppm Yes
Data Secuirty Kit (DSK) & Common	Criteria Certificat	tion	****		****					
Data Security Kit (Optional)	—	—	MX-FR37U/FR37	MX-FR26U(B402) MX-FR27U(B402SC)	MX-FR23U/FR14	MX-FR45U	MX-FR44U	MX-FR47U/FR47	MX-FR22U/ FR22	MX-FR38U
Data and Information Security Data overwrite (Auto)	_	_	std	DSK Feature	DSK Feature	Std	Std	Std	DSK Feature	std
Data overwrite (Manual)	_	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Data overwite at power-up	—	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Up to 7 times overwrite	_		std with opt. HDD	DSK Feature	DSK Feature	Std	Std User settable,	Up to 10 times User settable,	DSK Feature	std
Custom overwrite pattern	—	-	_	_		_	DoD5220.22-M preset*****	DoD5220.22-M preset	-	-
256 bit data encryption End of lease erase	_	_	std with opt. HDD std	std	std	Std Std	Std Std	Std Std	std	std std
Access Control Security			Stu			310	310	310		Siu
User authentication (local ad- dress book)	Per account code	Per account code	std	std	std	std	std	std	std	std
User authenticaiton (LDAP/AD)	—		std	std	std	std	std	std	std	std
Group authorization	_	Per account code, Copy/Print	std	std	std	std	std	std	std	std
Page limit control	_	Per account code,	std	std	std	std	std	std	std	std
Secured access to device	std with	Copy/Print std with opt.	std	std	std	std	std	std	std	std
home page	opt. NW Kit std with	NW Kit std with opt.								
Password management	opt. NW Kit	NW Kit	std with opt. HDD	std	std	std	std	std	std	std
User authority setting	std. Fixed setting	std. Fixed setting	std	std	std	std	std	std	-	std
Restrict list printing		—	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Scan to home	_	_		_		—	std	std	-	-
Scan to me Disable destination method		_				std	std	std	-	std
selection		_	std	std	std	std	std	std	std	std
Disable addressbook registration Receipt rejection from specified	_		std	std	std	std	std	std	std	std
user(s)	_	-	std	std	std	std	std	std	std	std
Lock users after 3 tries		_	std	std	std	std	std	std	std	std
USB card reader support CAC/PIV auttentication (Optional)	_	_	std	std	std	std	std	std	std	std
Embedded Solution (MX-EC50)*	—	—	—	—	Yes	_	Yes	Yes	Yes	-
Print Retention (MX-EC50)	—	_		_	Yes	_	Yes	Yes	Yes	-
Scan-To-Self and Site (MX-EC50) External Solution (DCL310S*****)	Yes	Yes	Yes	 Yes	Yes Yes	 Yes	Yes Yes	Yes Yes	Yes Yes	Yes
E-mail Encryption (Both)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digitally Signed E-mail (Both)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Network Security		HTTPS/SMTP/								1
SSL/TSL Encryption	_	POP3/LDAP	std	std	std	Std	Std (2048bit certificate)	Std (2048bit certificate)	std	std
Security policy management SNMPv3 Support	std. Fixed setting	std. Fixed setting	std std	std	std	Std Std	Std	Std	std std	std std
		std with opt.								
Kerberos	_	NW Kit	std	std	std	Std	Std	Std	std	std
SNMP communicty string support IPv6 and IPSec		_	std std	std	std	Std Std	Std	Std Std	std	std std
Device certificates	_	std with opt.	std	std	std	Std	Std	Std	std	std
IP address filtering	std with	NW Kit std with opt.	std	std	std	Std	Std	Std	std	std
	opt. NW Kit std with	NW Kit std with opt.								
MAC address filtering Port control (Disable /Enable	opt. NW Kit std with	NW Kit std with opt.	std	std	std	Std	Std	Std	std	std
ports)	opt. NW Kit	NW Kit	std	std	std	Std	Std	Std	std	std
Admin password protection**	_		std	std	DSK Feature	Std	Std	Std	std	std
IEEE 802.1X support Fax Security (Fax Option May Requi	ired)	_	std	std	std	Std	Std	Std	std	std
Separation Between Fax and	std	std	std	std	std	Std	Std	Std	std	std
Network Confidential Fax				std		Std		Std		
Filter Junk Fax		std std	std std	std	std std	Std	Std	Std	std std	std std
Document Security										
Job status display only logged on user	_	_	_	_	_	Std	Std	Std	_	std
Secure pull print FTP/SMB		_		—		Std	Std	Std	_	std
Secure print release with a PIN	_	_	std with opt. HDD	std	std****	Std	Std	Std	std	std
number Encrypted PDF transmission		_	std	std	std	Std	Std	Std	std	std
Encrypted PDF direct printing		_	Std with opt.	std	Std with opt.	Std with opt.	Std	Std	Std with opt.	std
			PS3 Kit****		PS3 Kit****	PS3 Kit			PS3 Kit	
Hiden secuirty pattern print Hiden secuirty pattern detection Audit Train Security		_	— DSK Feature	DSK Feature DSK Feature	DSK Feature*** DSK Feature***	DSK Feature DSK Feature	DSK Feature DSK Feature	DSK Feature DSK Feature	DSK Feature DSK Feature	DSK Feature DSK Feature
Job log and usage tracking	_	_	std with opt. HDD	std	std****	std	std	std	std	std
og and dougo indoning		_	sta mar opa mbb				otu	Yes	514	

\* MX-EC50 requires Commercial DSK.

\*\* Admin password can be protected when a Sharp MFP is accessed

from FTP, preventing password leakage. \*\*\* Supported only on "N" models.

\*\*\*\* Require optional HDD when it is not equipped. \*\*\*\*\* DCL310S supports FIPS 140-2 certified CAC encryption (E-mail & Communication)

\*\*\*\*\*\* Coming in Summer 2017

## SECURITY FEATURE COMPATIBILITY (COLOR)

	MX-C301W	MX-C300P	MX-C250/ 300W	MX-2615N/ 3115N/ 2616N/ 3116N	MX-2640N/ 3140N/ 3640N	MX-C312 C402SC	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/ 4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-5050N /6050M/	MX-5070N/ 6070N	MX-6240N/ 7040N	MX-6500N/ 7500N
General MFP Features/Functions Speed	30ppm	30/30ppm	25/30 ppm	26/31 ppm	26/31/36 ppm	31 ppm	30/35/40 ppm	30/35/40 ppm	41/51 ppm	50/60 ppm	50/60 ppm	62/70 ppm	65/75 ppm
Hard Disk Drive	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Data Security Kit (DSK)													
& Common Criteria Certification Data Security Kit (Optional)	MX-FR46U	-	-	MX-FR40U (2615N/3115N)	MX-FR41U/ FR41	MX-FR29U (C312) MX-FR28U (C402SC)	MX-FR51U	MX-FR52U	MX-FR42U/ FR42	MX-FR51U	MX-FR52U	MX-FR36U	MX-FR43U
Data and Information Security													
Data Overwrite (Auto)	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Data Overwrite (Manual)	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Data Overwrite at power-up	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Up to 7 Times Overwrite	Std	-	-	Std	Std	Std	Up to 10 Times	Up to 10 Times	Std	Up to 10 Times	Up to 10 Times	Std	Std
Custom Overwrite Pattern	-	-	-	-	-	-	User settable, DoD5220.22- M preset	User settable, DoD5220.22- M preset	-	User settable, DoD5220.22- M preset	User settable, DoD5220.22- M preset	-	-
256 bit Data Encryption	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
End of Lease Erase	Std	-	-	Std	Std	-	Std	Std	Std	Std	Std	Std	Std
Access Control Security			1							1	1		
User Authentication (local ad-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
dress book) User Authentication (LDAP)	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
User Authentication (LDAP)	Jiu	-	Jiu	Ju	Ju	Jiu			Jiu			Jiu	310
Directory)	-	-	-	-	-	-	Std	Std	-	Std	Std	-	-
Group Authorization	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Page Limit Control	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Secured Access to Device Home Page	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Password Management	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
User Authority Setting	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Restrict List Printing	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Scan to Home Durectory	-	-	-	-	Std	-	Std	Std	Std	Std	Std	-	-
Scan to Me	Std	-	-	Std	Std	-	Std	Std	Std	Std	Std	Std	Std
Disable Destination Method Selection	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Disable Address Book Registration	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Receipt Rejection from Specified User(s)	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Lock Users After 3 Tries	Std	-	-	Std	Std	DSK Feature (C312) Std (C402SC)	Std	Std	Std	Std	Std	Std	Std
USB Card Reader Support Network Security	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
TSL Encryption	Std	HTTPS for client only	HTTP client only	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std
Security Policy Management	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
SNMPv3 Support	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
SNMP Communicty String Support	Std	-	Yes	Std	Std	-	Std	Std	Std	Std	Std	Std	Std
Kerberos	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
IPv6 and IPSec	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Device Certificates	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
IP Address Filtering	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
MAC Address Filtering Port Control (Disable/Enable	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Ports)	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Admin Password Protection**	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
IEEE 802.1X Support	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Fax Security (Fax Option May Red Separation Between Fax and	quired) Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Network Confidential Fax	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Filter Junk Fax	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Document Security	010				0.0	010	010	014	014		0.0	0.0	010
Job Status Display Only Logged on User	Std	-	-	-	Std	-	Std	Std	Std	Std	Std	DSK Feature	DSK Feature
Secure Pull Print FTP/SMB	Std	-	-	-	Std	-	Std	Std	Std	Std	Std	-	-
Secure Print Release with a PIN Number	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Server-less Print Release	-	-	-	-	-	-	Std	Std	-	Std	Std	-	-
Encrypted PDF Transmission	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Encrypted PDF Direct Printing	Std	Std*****	Std*****	Std with opt. PS3 Kit	Std	Std	Std	Std	Std	Std	Std	Std	Std
Hidden Security Pattern Print Audit Train Security	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Job Log and Usage Tracking	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Admin Audit Tracking	-	-	-	-	-	-	Std	Std	-	Std	Std	-	-

Certain features and functions may require options.

MX-EC50 requires Commercial DSK.
 Admin password can be protected when a Sharp MFP is accessed from FTP, preventing password leakage.
 DCL310S supports FIPS 140-2 certified CAC encryption (E-mail & Communication).

\*\*\*\* Supports files without a password.



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