SHARP®

INFORMATION TECHNOLOGY REFERENCE GUIDE

sharp technology
empowers productivity

version 2.0

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IT MANAGERS: SIMPLIFYING YOUR LIFE

As an **Information Technology** professional, you are no doubt faced with a unique set of challenges that pull you in many different and often conflicting directions. For example, you are forced to do more with less—supporting disparate assets throughout the sprawling enterprise with maximum interoperability and minimal resources. Internal policies and government regulations impose strict requirements on protecting the confidentiality of personal information. You also aspire to reduce the impact of your operations on the environment through reduced energy consumption and recycling.

At Sharp, we understand your goals and the issues that impede your ability to focus on strategic organizational objectives. From developing award-winning multifunction printers (MFPs) that deliver impressive document workflows to facilitating the administration of devices wherever you are, Sharp technology empowers productivity beyond compare. Our innovative **Sharp OSA development platform** helps your MFPs reach further into the organization and business processes and is supported by one of the largest developer communities in the industry. Sharp's security expertise is also among the most respected, having pioneered the first and most comprehensive solution for MFPs.

Sharp is also a trusted leader in liquid crystal display (LCD) technology, from our line of **AQUOS BOARD®** interactive display systems to ultra-slim bezel video wall monitors and high-brightness digital signage displays. And to help preserve the natural beauty of our environment, we have made a strong corporate-wide commitment to minimize the impact of Sharp products on our planet.

SHARP'S COMMITMENT TO INNOVATION

For over 100 years, Sharp has been an innovator in electronics and office technology. From the Ever-Sharp pencil introduced in 1913, to a leader in the development of LCDs and modern document technologies, Sharp's vision of quality and reliability is embodied in each and every product we deliver. Our award-winning MFPs are no exception. They provide sophisticated features and unparalleled reliability to dramatically improve document workflows and business processes throughout your entire organization.

From copying, printing, scanning and faxing, to securely interacting with other network resources and business applications, Sharp MFPs can help boost productivity and minimize costs. In addition to our cutting-edge document systems, Sharp offers an array of display products to further meet your business needs, including interactive touch-screen displays, digital signage solutions and video wall systems.

Sharp's close relationship with both our dealers and our customers is the foundation for our unique product development process. This collaborative approach allows Sharp to deliver unique products and technologies that provide innovative customizable solutions to real-world business challenges.

Security (CC) | Scan 2 | Sharp OSA | My Sharp | Pull-out Keyboard | A4 Scan Centric | Cloud Portal Office | Single Engine Design

History of Sharp Document Technology Innovation

2001 Introduced the Common Criteria validated Data Security Kits for MFPs.

2001 Pioneered Scan^{2}™ technology with one of the first dual-head document feeders for a workgroup MFP.

2006 Launched Sharp OSA technology, the industry's first Web services development platform.

2006 Sharp Partner Program sets new industry benchmark for breadth of offerings to meet customer needs.

2007 Introduced My Sharp™; customized support and training portal for end-users.

2008 Introduced the first fully retractable QWERTY keyboard as a standard feature of workgroup MFPs.

2008 Introduced A4 MFPs that offered the same advanced features as A3 models with a smaller footprint.

2011 Introduced the industry's first cloud-enabled MFPs featuring Sharp OSA v4 technology.

2011 Led the industry with one of the first workgroup MFPs with easy-to-use tablet-style menu navigation.

2012 Introduced Triple Air Feed paper handling for Sharp's Pro Series MFPs.

2012 Released Sharpdesk® mobile printing/scanning solutions for Windows®, iOS® and Google® Android™ devices.

2013 Launched Industry leading Color Pro Series MFPs with Full Bleed Booklet finishing, and a Fiery® Command Workstation® Integrated at the panel.

2014 Launched Cloud Portal Office, a comprehensive document capture and content management service.

2016 Announced ground-breaking line of color MFPs with 10 models built on a single engine platform.

innovation

Comprehensive MFP Product Line

We offer an array of MFPs and Printers to address a broad range of business objectives. From our A3 and A4 workgroup MFPs to our light production MFPs, Sharp has continued to redefine the role and importance of document technology in the workplace by offering products that are easy to use, customizable and secure.

- **Ease-of-Use**

  Many other MFPs on the market have operation panels that require digging through layers of choices to find the features you need. Sharp MFPs offer an easy-to-use tablet-like user interface combined with the industry's first integrated retractable keyboard that provides intuitive control of even the most advanced functions. Yet another Sharp first is our Scan² technology which scans both sides of a document in a single-pass, providing increased efficiency and enhanced system reliability.

Navigate smoothly with advanced MFP functions and gain access to world-class features on-the-fly.

- **Customization**

  The user interface can be customized with one-touch access to the functions, files or applications that are most important to the end-customer. The experience is fully personalized from the simple to the more complex, allowing you to add custom backgrounds and icons, change the display language and much more.

  Another prime example of Sharp technology that enables a fully customizable experience is the Sharp OSA platform. The industry's first Web services development platform, now in its fifth generation, provides advanced customization capabilities to meet the unique needs of your business.

Comprehensive MFP Product Line *(continued)*

- **Security**

  Sharp's award-winning security suite provides peace of mind and protection for your confidential and intellectual property, whether you are copying, scanning or printing. Sharp's standard **End-of-Lease** feature (on select models) digitally shreds any and all data on the MFP providing peace of mind when the MFP is returned to the leasing company.

Help Protect Your Confidential Data with the Sharp MFP Security Suite

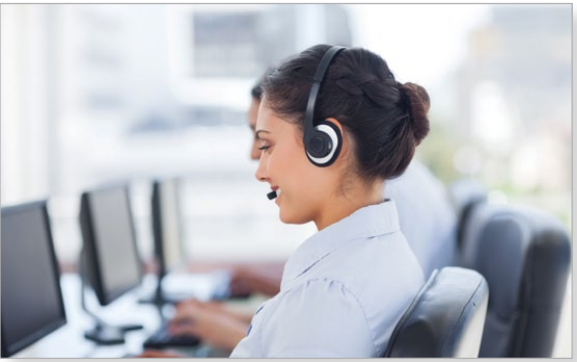
SHARP'S DEDICATION TO SALES AND CUSTOMER SUPPORT

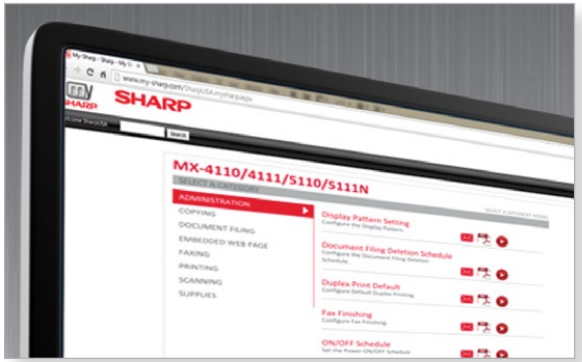
Our dedication and mission is to develop customer loyalty by exceeding customer expectations in order to help contribute to their success.

Nationwide Coverage

Your relationship with Sharp doesn't end after you purchase an MFP. To ensure the highest level of satisfaction and support, Sharp stands behind every product through its nationwide network of professionals that are eager to work with you and address your specific needs. With both local representation and national reach, Sharp resellers provide a very high level of service and support to customers throughout the United States.

We take pride in supporting the relationships forged by our direct sales team and local authorized dealers. These relationships help Sharp develop products that continually add value and help enhance productivity. With nationwide reach, we can support large corporate installations with offices throughout a region or spanning the country. This combination of responsive local management and nationwide support delivers an outstanding experience for customers.





My Sharp website is available 24/7 with detailed video instruction.

Online Support and Training with My Sharp

My Sharp, available 24/7, is a dedicated customized website providing how-to videos and PDF documents that demonstrate features of the customer's specific MFP devices.

With the intuitive web support, users can find the information they need for scan, copy, print, fax, administrative functionalities and supplies replacement, helping to reduce downtime and enhance productivity.

ENVIRONMENTALLY-FRIENDLY

Responsible Approach to Product Design

All Sharp Document Systems utilize advanced micro-fine toner technology, which offers a lower consumption rate and produces less waste than conventional toners, resulting in longer replacement intervals. Sharp supplies are packaged using fully recyclable materials. Long-life consumable parts help minimize service intervals and down time, resulting in lower operating costs. With two different energy-saving modes, power can be reduced or shut off at set intervals. All Sharp document systems are **ENERGY STAR®** qualified and RoHS compliant to restrict the use of hazardous substances.

Toner Recycling Program

As part of our commitment to helping preserve the environment, Sharp offers our customers zero waste land fill recycling for all Sharp consumables, including cartridges, bottles, toner collection containers and drum units. Sharp encourages customers to recycle their used Sharp toner cartridges in bulk by providing a pre-paid Recycling Kit for their return to our facility. Visit ***www.sharpusa.com/recycle*** to learn more.

Sharp takes an environmentally responsible approach to product design.

Sharp's Environmental Leadership

As a testament to our commitment to the environment, Sharp is a three-time winner of the ENERGY STAR annual Excellence in Energy Proficiency Product Design. Sharp is also a four-time winner of the **SmartWay®** Excellence Award, which recognizes companies for conserving energy and lowering greenhouse gas emissions in logistics and transportation. Sharp was also a previous recipient of the **Excellence in Partnership Green Contractor Award** and the **Evergreen Award** from the General Services Administration (GSA) and the Coalition for Government Procurement. These awards recognize environmentally responsible businesses and their efforts on recycling, waste reduction and affirmative procurement practices.

Sharp Business Products are EPEAT® Registered

EPEAT (Electronic Product Environmental Assessment Tool) is a third-party global rating system for greener electronics that requires ongoing independent verification of manufacturer claims. Businesses, government agencies, schools, hospitals and other institutions are using EPEAT as the environmental benchmark to help them make informed purchasing decisions. By using EPEAT standards to purchase greener electronics, you will be assuring your organization's environmental sustainability goals and help to preserve our natural resources.

VISUAL TECHNOLOGY FOR DIVERSE BUSINESS NEEDS

Sharp offers an array of products to address visual needs for diverse businesses, including interactive touch-screen displays, professional monitors, commercial HDTVs, digital signage solutions and video wall systems.

Sharp AQUOS BOARD interactive displays provide maximum work efficiency with minimal effort.

Interactive Displays Provide a Personal Touch

Sharp has taken the LED display to a new level by combining a high sensitivity touch-screen and original user-intuitive pen software. The **Sharp AQUOS BOARD** interactive display system is ideal for meetings, video conferencing, classroom instruction and anywhere interactive communication is key.

Sharp's recently introduced PN-L703W and PN-L603W AQUOS BOARD interactive display systems offer wireless connectivity. Now there's no need to mess with tangled wires or conversion adapters when it's time to share ideas. The PN-L703W/603W models have a built-in wireless controller that enable multiple devices—including computers, smartphones and tablets—to connect wirelessly via dedicated connection software, supporting workers in BYOD environments. Since data is not stored during the wireless connection, confidential information shared on the AQUOS BOARD interactive display system remains protected.

Effective for communications with large audiences, Sharp Display Connect software enables the content shared on the AQUOS BOARD interactive display to be broadcast on up to 50 devices[1]. By allowing the exchange of files between those devices, Sharp Display Connect facilitates lively discussion and paperless meetings in both business and educational settings.

Informative professional displays in reception and high-traffic areas, provide instant news, facts and data.

Digital Signage Gets The Message Out

Sharp is a market leader in commercial HDTV displays and offers a complete line of professional displays ranging from our 20" class (19.5" diagonal) touch screens all the way up to our spectacular large format 90" class (90.1") models. Our displays are built and engineered for business, providing up to 24/7 continuous operation and most are backed by the Sharp three year limited warranty. They are ideal for communicating your message in corporate campuses, education, healthcare and hospitality environments. With Sharp Digital Signage Software (SDSS), a highly versatile yet easy-to-use management software solution, you can effortlessly create, schedule, distribute, display and monitor all types of digital signage deployments. Whether you're deploying just a single display or a network of one thousand displays, Sharp offers a version of SDSS that's right for you.

Sharp professional displays in reception area.

Technology-driven solutions enhance opportunities to increase audience awareness.

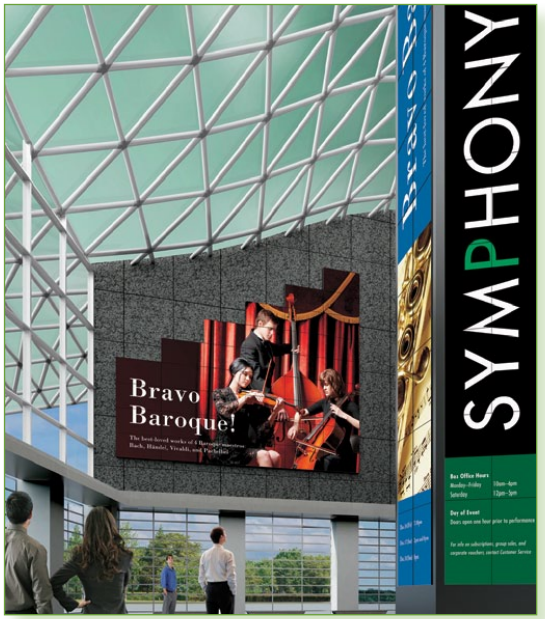
Make a Strong Impact with Video Wall Systems

With businesses everywhere vying for attention, making a big impact is critical to success. Nothing does that bigger or better than a digital signage solution made up of multiple **Sharp ultra-slim bezel professional displays**. The nearly seamless display of targeted content on large video walls provides a powerful communicative punch that immediately attracts more eyes and holds more attention.

Sharp's PN series of professional monitors easily connect to create an eye catching video wall that expands the reach of your message. Whether installed in a concert hall, shopping mall, hotel lobby, control room, transport hub or conference center, a Sharp video wall will convey your message with awe-inspiring style and precision. The ultra-slim bezel enables you to combine multiple units to create a virtually seamless digital canvas providing large, crisp images with minimal distraction and maximum impact.

Built tough, these video walls are ideal for use in any location requiring 24/7 consistent uptime.

Sharp video wall in shopping mall.



Sharp video wall in concert hall.

EMPOWERED MOBILE MFP SOLUTIONS

Highly featured smart phones and tablets are increasingly popular communication tools in the business world. According to industry analyst IDC[2], research indicates that as organizations move toward digitization and focus on mobile options such as tablets, there are print needs that are not being addressed nor met for users. Top three hurdles are support of print on mobile devices:

- Inability to print from smartphone
- Inability to print from tablet
- Inability to print from websites and/or portals.

In addition, IDC estimates that the total print page volume through 2016 is relatively flat whereas the mobile print volume projections are expected to grow as businesses integrate digital and mobile devices into their organizations.[2]

Enabling the mobile workforce to work from virtually anywhere, on any device.

Mobile Printing and Scanning for Your Workplace

Sharp understands the need to support an extended workplace that includes mobile devices by providing seamless productivity for organizations. Sharp delivers a comprehensive portfolio of solutions to support organizations' mobile printing and scanning needs.

- **Sharpdesk Mobile** offers comprehensive and secure options for Windows, iOS and Google Android users to easily print documents from their smartphones or tablets to a Sharp MFP. Users can also scan hardcopy documents from a Sharp MFP directly to their mobile devices for flexible storage and sharing. Scanned files can be shared with other applications or sent as email attachments. Sharpdesk Mobile is available at no cost at the Windows Store, Apple App Store®, Google Play™ store for their respective users.

Stay up-to-date and control your data and resources with Sharp's portfolio of solutions.

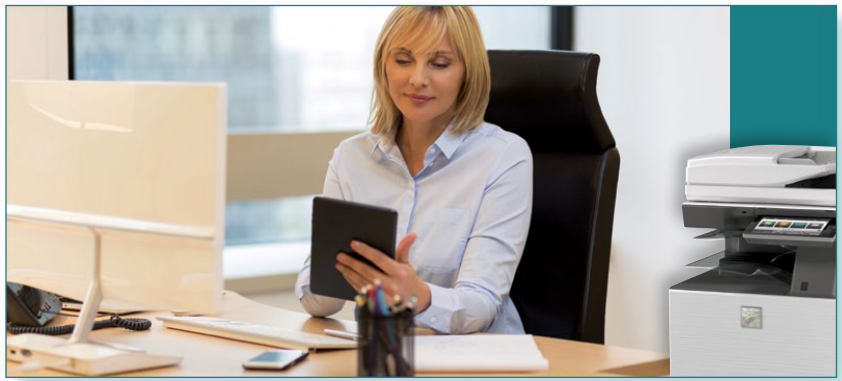
Mobile Printing and Scanning for Your Workplace *(continued)*

- **Google Cloud Print™** web printing service is a technology that connects printers over the web, without requiring on-premise services. Google Cloud Print is supported on mobile phones, tablets, Chromebook™ notebook computers, PCs and any other devices connected via Google Chrome™ browser. Select Sharp MFPs are cloud ready and can be registered directly with Google Cloud Print service.

- **Sharp Print Service Plug-in** is a native printing plug-in supporting Android 4.4 and above with framework that consists of multiple print service plug-ins to enable printing from an Android platform mobile device. Sharp Print Service Plug-in allows you to print a variety of files with enhanced print settings, directly from Android platform devices to Sharp MFPs and printers.

- **Mopria™** is a Mobile Print Alliance and a set of standards to enable printing from mobile devices to printers from different manufacturers or brands. Mopria is supported by the Android operating system 4.4 and above, and it works similarly to the Sharp Print Service Plug-in. The Mopria Print Service Plug-in provides a "universal print driver" to provide a single printing interface for mixed fleet environments.

- **AirPrint™** permits printing of Web pages, photos, email and more with AirPrint-enabled Sharp devices. There is no set up required, quickly print what you want, where you want it! AirPrint is Apple's printing technology that provides instant printing capabilities for iOS and OS X devices. Select Sharp MFPs and printers have built-in AirPrint technology enabling users to print from their iPad®, iPhone® and iPod® touch mobile digital devices or Mac® computers without requiring a print driver.



Sharp Mobile Solutions – Quick Guide

APPLICATION NAME	AIRPRINT	MOPRIA	SHARP PRINT SERVICE PLUG-IN	GOOGLE CLOUD PRINT	SHARPDESK MOBILE
Operating System	iOS	Android	Android	Google Chrome Browser and Windows	iOS, Android and Windows
What is required?	AirPrint Certified Printer	Mopria Supported Printer, Plug-in Application	Sharp MFPs, Sharp Print Service Plug-in for Mobile Device	Google Cloud Ready Printer, Chrome browser/ Google Cloud Print driver	Sharp MFPs and Printers, Sharpdesk Mobile Application
Advantage	No Application Needed, Native OS Printing	Supports Mixed Fleet, Native OS Printing	Comprehensive Print Settings Support, Native OS Printing	No Application Needed	Print, Scan, Store, Share, Security, Comprehensive Print Settings, Supports All Key OS
Print Setting Options	Orientation, Paper Size Options and Select Page Range	Orientation, Paper Size Options and Select Page Range	Color/Mono, Orientation, Simplex/ Duplex, Paper Size/Type, Staple, Page Range and Quantity	Color/Mono, Orientation, Paper Size Options, Select Page Range, Fit to Page and Reverse Order	Color/Mono, Simplex/ Duplex, Paper Size Options, Paper Types, Binding/Stapling Options, Quantity and More
Print Retention	No	No	No	Yes	Yes
Common File Types Supported	Email, HTML, PDF, JPEG	Email, HTML, PDF, JPEG	Email, HTML, PDF, MS Office File Printing*	HTML, PDF, JPEG, Google Doc, MS Office File	Email, HTML, PDF, JPEG, TIFF, PNG, XPS, RTF, TXT, MS Office File Printing*
Scan	No	No	No	No	Yes
Where to download	No Application Download	Google Play Store	Google Play Store (Available Spring 2016)	No Application Download. Google Cloud Print Registration	Google Play store, Apple App Store and Windows App Store
Special Notes			*Supported on Select Models		*Supported on Select Models

Create a selective and secure wireless hotspot for printing and scanning.

Wireless LAN Connectivity

Transform your Sharp MFP into a wireless-enabled imaging product. Select Sharp MFPs and Printers are equipped with wireless LAN capability to help your organization maximize productivity among mobile users. In alignment with your organization's security and wireless network policies, the following modes are available on select Sharp MFPs and printers:

- **Infrastructure Mode**

  Sharp MFPs installed on the corporate wireless network can be placed wherever a wireless router is within range. Eliminating physical cables and hubs, Infrastructure Mode increases the options to strategically locate devices and improve accessibility.

- **Access Point Mode**

  This mode is ideal for organizations that adhere to a BYOD (Bring Your Own Device) model. Co-existing with a wired network, this mode will create an instant point to point wireless network connecting mobile devices to printing resources. Segregated from the corporate network, IT managers can prevent unwanted access to corporate resources while allowing mobile users to access basic printing and scanning. This enables convenient wireless usage without compromising the organization's security policy.

USB Direct Printing and Scanning

Most Sharp MFPs allow users to scan and print directly to/from USB. This feature helps make it convenient for users to access the device by minimizing extra steps. For security-conscious organizations, this feature can be disabled to maintain compliance with the security policy and avoid misuse of the MFP.

EXTENSIVE INTEROPERABILITY

Achieve MFP compatibility across complex networks.

Sharp understands that IT administrators must ensure MFP compatibility across complex networks of computers, devices, applications and platforms. Sharp MFPs are compatible across a broad spectrum of environments, further helping to maximize your investment in technology. From defining output settings to specifying finishing options, users are able to reliably produce professional quality printed materials.

Microsoft® Windows® Support

Sharp drivers are compatible with the latest Microsoft® operating systems including Windows® 10 and Windows Server® 2012 operating systems. Additionally, many of Sharp's drivers have passed Microsoft's Windows Hardware Quality Labs (WHQL) testing for maximum compatibility and reliability.

Apple® OS X® Support

Apple not only maintains a strong presence in marketing, advertising and design departments, but Mac adoption is also growing across the enterprise. To ensure productivity of Mac users, most Sharp MFPs are compatible with the latest Mac OS X operating systems through OS X print drivers.

Google Support

Google is rapidly emerging in business environments of all sizes. Sharp MFPs help Google users through an optimized document printing and scanning experience by supporting Android devices, Google Cloud Print and apps including Google Drive™.

Maintain continuity while producing consistent results.

Citrix®

The Citrix Ready® program ensures compatibility with Citrix products. As a member of this joint solution compatibility and verification testing program, Sharp tests drivers to ensure consistent printing from Sharp MFPs and printers in Citrix XenApp® environments.

SAP® Member
Printer Vendor Program

Device Types

As a gold-level member of the SAP® Printer Vendor Program, Sharp ensures compatibility of MFPs and printers with SAP solutions through updated device types. Device types are files that store printer information so users can seamlessly access printer features such as paper tray selections, orientation and duplex options directory from SAP.

Supported Page Description Languages

All network capable Sharp MFPs support the PCL® page description language. Adobe® PostScript® 3™ support is available for environments that require these industry standards.

Linux® and UNIX® Support

Computers running on Linux and UNIX operating systems can also access the functionality of Sharp MFPs. To access these features, simply install the correct PostScript Printer Description (PPD) or PCL support file to deliver optimized printing.

INNOVATIVE WORKFLOW SOLUTIONS FOR HEALTHCARE

Healthcare EHR/ EMR Application Compatibility

Within the healthcare industry, there are a few solution providers that are setting the standard for Electronic Health/Medical Records (EHR/EMR). Each EHR/EMR system provider has their own unique set of requirements and/or certifications for any device to be utilized with their system. Certifications are an objective, measurable way to mitigate the risks of implementing new technology into a specialized environment. Customers can seamlessly integrate their networked Sharp printers and MFPs with leading solutions such as Epic, Cerner Millennium and McKesson STAR 2000 with confidence.

	Cerner Millennium®	McKesson® STAR 2000™	MEDITECH® Magic OS*	EPIC®**
MONO - A3				
MX-M200D	-	-	✓	✓
MX-M264N/M314N/M354N	✓	-	✓	✓
MX-M283/M363/M453/M503	✓	✓	✓	✓
MX-M365N/M465N/M565N	✓	✓	✓	✓
MX-M364N/M464N/M564N	✓	✓	✓	✓
MX-M623N/M753N	✓	✓	✓	✓
MX-M654N/M754N	✓	-	✓	✓
MX-M850/M950/M1100	-	✓	✓	✓
COLOR - A3				
MX-2310U	✓	✓	✓	✓
MX-2610N/3110N/3610N	✓	✓	✓	✓
MX-2615N/3115N	✓	✓	✓	✓
MX-2640N/3140N/3640N	✓	-	✓	✓
MX-3050N/3550N/4050N	-	-	✓	✓
MX-4100N/4101N/5001N	✓	-	✓	✓
MX-4110N/4111N/5110N/5111N	✓	✓	✓	✓
MX-4140N/4141N/5140N/5141N	✓	✓	✓	✓
MX-5070N/6070N	-	-	✓	✓
MX-5500N/6200N/7000N	✓	✓	✓	✓
MX-6201N/7001N	✓	✓	✓	✓
MONO - A4				
DX-B350P/B450P	✓	✓	✓	✓
MX-B400P	✓	✓	✓	✓
MX-B402SC	✓	✓	✓	✓
MX-B401	✓	✓	✓	✓
MX-B402	✓	✓	✓	✓
COLOR - A4				
MX-C250/300W	-	✓	✓	✓
MX-C311/C401	✓	✓	✓	✓
MX-C400P	✓	✓	✓	✓
MX-C402SC	✓	✓	✓	✓

*Sharp MFPs that support PCL5, PCL5c or PCL5e are compatible with MEDITECH Magic OS.

** Each Epic customer will have an employee trained as the Epic Technical Advisor. The Technical Advisor will approve print output device placements.

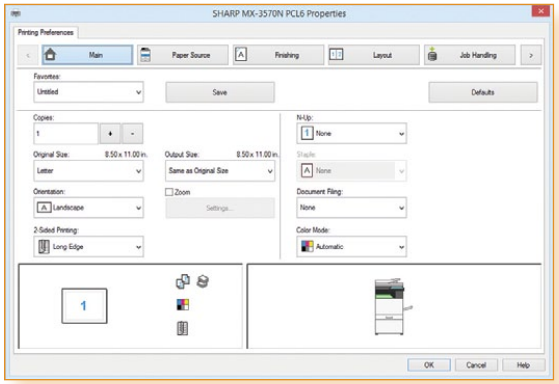
EFFORTLESS PRINTING

Manage all phases of printing with ease of use.

Printing is one of the most common everyday tasks at any type of organization. The challenge for IT managers is to deliver an efficient and flexible yet structured printing environment. Sharp MFPs help ensure all phases of printing and document management are easy, for both IT managers and end-users.

Sharp Print Driver

Sharp print drivers are seamlessly integrated with Microsoft Windows OS and their popular applications such as Microsoft Office for a seamless printing experience. Specific features are available through a user friendly interface that helps meet each user's unique output requirements. Most Sharp drivers are Microsoft WHQL certified to deliver the best printing results.



Sharp PCL Windows Driver.

Key features include, but are not limited to:

- Simplified print settings and **versatile finishing** selections including **staple-less staple**[3] to minimize user support.
- **Print retention** to reduce waste and protect confidential information via secured release with a PIN code or via user authentication.
- **Image quality** options to meet each user's various output needs.
- Print to **document filing** folders for convenient document retention and retrieval.
- **User authentication** to ensure only authorized users can access the device.
- **Watermark** to help identify sensitive documents.
- **Print and send** by sending the document to registered destinations on the device when document is printed.

Sharp Universal Driver (Sharp UD)

Sharp UD is designed to facilitate easy printer and print driver management for IT managers. With one driver providing a consistent printing experience for all end-users in the organization, the Sharp UD helps IT managers increase efficiency by simplifying support, management, installation and setup.

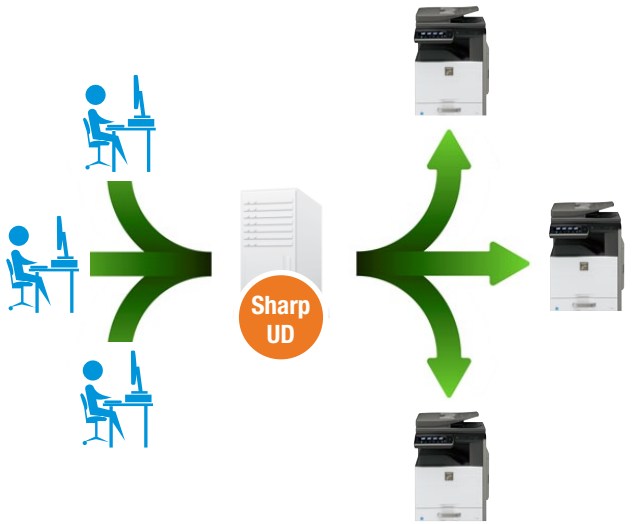
High-performance features for busy workgroups.

CITRIX ready

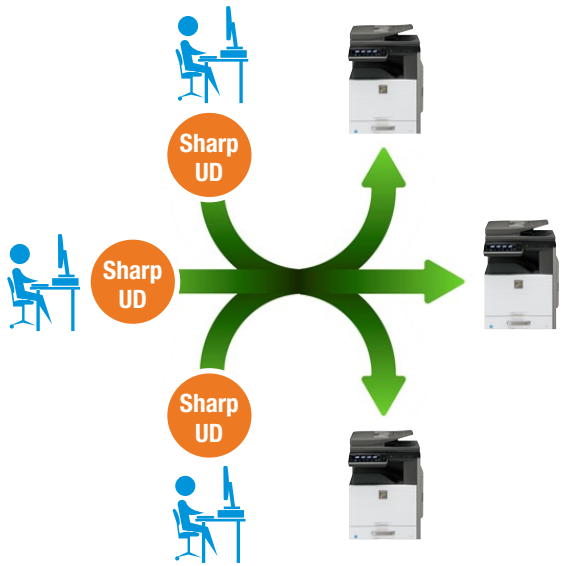
Key features include, but are not limited to:

- **Basic Mode** and **Enhance Mode** for your optimal printer driver deployment and management.
- Quick **device discovery** to find Sharp MFPs on the network.
- Versatile **finishing support** to maintain productivity with convenience.
- **Printer list** feature to always keep your favorite printers accessible.
- Verified and trusted **Citrix Ready** print driver.
- **Client-server** and **peer-to-peer print environment** for IT managers to provide flexible networking options.

Client-Server: Centrally managed by IT. Simplified printer management with one driver.



Peer to Peer: Improved user convenience with one driver for many printers.



Print Productivity and Security

Organizations require constant improvement in productivity, providing users access to mission critical documents whenever and wherever can help meet this need. At the same time, IT departments face increased demand for print security and compliance. Sharp helps enable organizations and IT departments to overcome these challenges through user authentication security as well as convenient pull printing solutions.

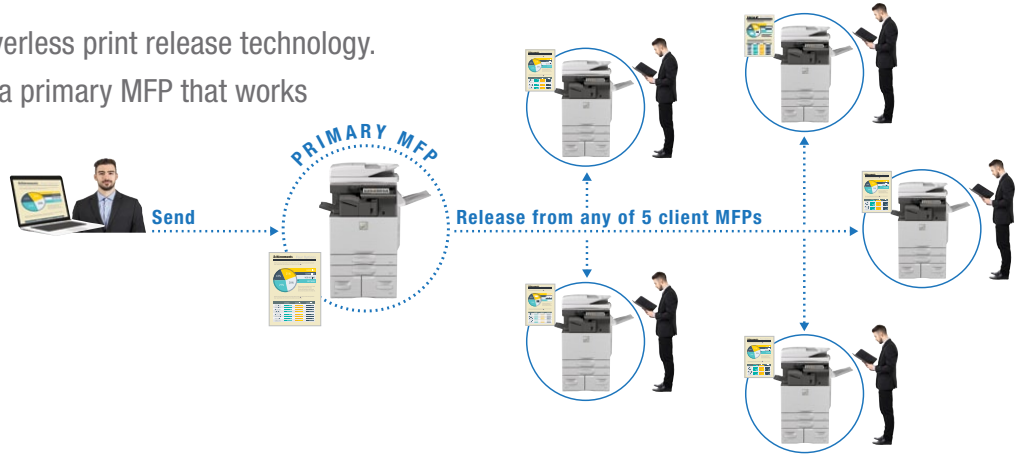
• Print Retention and User Authentication

With most Sharp MFPs, users can send print jobs and store them on the MFP's hard disk drive which can then be securely released using a PIN number or via user authentication through a simple UI. When user authentication is enabled, all print jobs are authenticated and only validated print jobs are accepted and released from the device, helping organizations to not only meet their security policies and industry compliance but also help reduce waste from orphaned jobs left at the printer.

• Serverless Print Release

With Serverless Print Release technology, securely print a job and release it from any of five select MFPs.

Select Sharp MFPs come standard with serverless print release technology. With this function, IT admins can designate a primary MFP that works as a print server enabling users to securely print a job and release it at any of the five supported MFPs on the network Users can simply walk up to the most convenient MFP and quickly release their print jobs.



• MX-SW100 Print Release Software

Available exclusively through dealers in the Authorized Integrator Program (AIP), the MX-SW100 software is an ideal tool for workgroups in any organization seeking to balance the often-conflicting demands for increased security, user convenience and cost reduction. MX-SW100 print release software is a low-cost and user-friendly solution. Integrating with Microsoft Active Directory® or local database, it is designed for IT administrators to implement a departmental print release solution throughout the organization.

Output Management for Organizations of All Sizes

Sharp offers print management solutions for all types of organizations, regardless of size, to help manage and allocate print costs. In addition to a built-in billing code and print release features, Sharp MFPs and printers are compatible with various output management applications such as MX-SW100 and Kayleigh job accounting software, which offer simplified access-control, print release and cost recovery features.

- **Kayleigh Job Accounting Software**

  As organizations grow, managing the cost of print, scan, copy and fax activities becomes more important. Kayleigh job accounting software is one way that Sharp can help companies meet this goal. Kayleigh software suite offers a job accounting solution ideal for a Sharp only small to medium business environment. Kayleigh can help organizations manage and track print costs by monitoring the print activities and offers a step up solution above Sharp MFP's native capabilities.

Flexible printing solutions help speed up your office productivity.

Kayleigh key benefits:

- **Easy authentication** via network username and password or ID card.
- **Track all activities**. Manage and monitor print/copy/scan activities to track spending and to optimize resources.
- **Manage MFP function and feature access** by user or by department to enhance secured environment.
- **Cost recovery** by billing clients back using client matter.
- **Secure print/copy/scan activities** and allow users flexibility by enabling print release from any network-connected MFP.

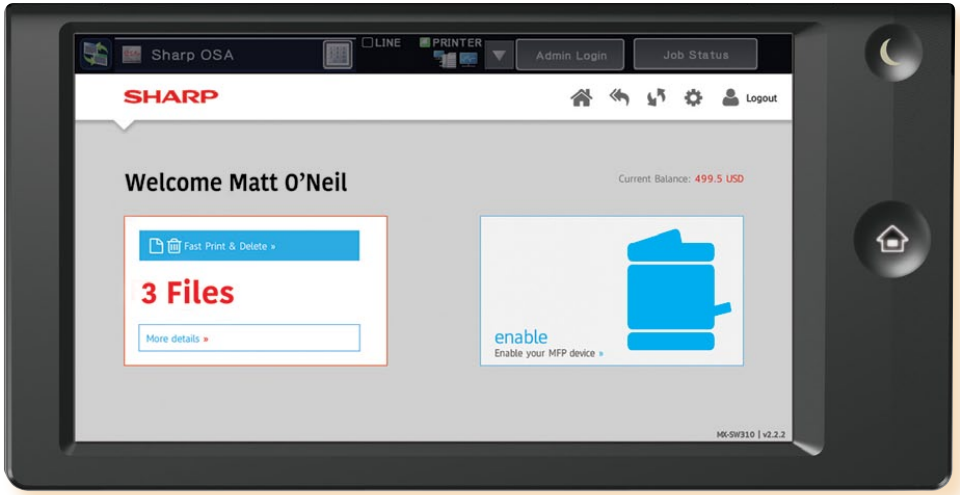
Intelligent document workflow solutions help you work more efficiently.

Output Management for Organizations of All Sizes *(continued)*

Kayleigh Job Accounting Solution Components

Kayleigh job accounting solution comprises three software feature options:

- **Job Accounting: MX-SW310 –** Tracks print and scan activities within the organization. Manage access to specific MFPs and set usage limits by users, department or groups.
- **Pull Printing Option: MX-SW311 –** Allows the job to be stored in a secure print queue rather than print immediately. The job can be printed on demand at any Sharp MFP on the network by minimizing waste so you can print what you need, when you need it.
- **Client Billing Option: MX-SW312 –** Makes it easy to bill back clients, cost centers and projects and download reports.



Kayleigh on the MFP Panel.

- **Sharp Partner Program Member Applications**

Sharp and the Sharp Partner Program community offer a broad selection of tightly integrated print release, cost accounting and access control software. Whether your needs are simple or complex, **Sharp Partner Program Members** can provide the right products to help meet your print security and productivity needs. For more information on the products available from the program members, please visit *www.sharp-partners.com/validated.*

SIMPLIFIED CONTENT MANAGEMENT

Multi-function products are evolving to efficiently handle several complex tasks in one unit—copy, print, scan, fax and more—helping organizations reduce costs and increase productivity. Factor in Sharp's customizable and intuitive user interface with these robust document management capabilities, and you've got a winning combination. Furthermore, Sharp offers a variety of software applications that help to enhance the integrity of hard copy to electronic document processing.

Control and manage your communications with intuitive operation.

Integrated and Secure Document Scanning and Sending

With Sharp's powerful ImageSend™ technology, you get one-touch access to features that allow users to efficiently communicate, collaborate and manage documents. It also gives users the option to send scanned documents to the desktop, network folders (SMB), FTP folders, USB, emails, fax and more. Select models also support convenient and secure destinations including "Scan to Home" and "Scan to My Email" to maximize productivity while reducing IT administration. In addition, select models support Distributed File System (DFS) to help ensure information security and integrity, minimizing data redundancy.

Send scanned documents effortlessly with ImageSend technology from Sharp.

Unified Electronic and Physical Documents

Select Sharp MFPs enable users to convert printed documents into different types of digital formats. This optical character recognition (OCR) capability adds extensibility to the document based information. By converting the physical document into a Microsoft Office file or text formats, the document can be instantly accessible for editing and searching right after it is scanned from a Sharp MFP. For printing, select Sharp MFPs allow users to directly print Microsoft Office and text files without requiring a print driver. This can tremendously improve productivity of mobile users, allowing them to print various types of files from their mobile devices, USB memory devices, or Sharp OSA-developed integrations.

Access to what you need, when you need it, maximizes performance.

Sharpdesk® Desktop Document Management

Intuitive Sharpdesk personal document management software enables users to easily manage their documents and scanned files. The easy-to-use features help users organize, edit, OCR and even combine scanned and stored files for maximum productivity. Sharpdesk also supports “push” installation to multiple desktop PCs from a server, making it simple for IT managers to get new users up and running quickly.

Streamline Business Processes with AIP Connect

AIP Connect is an application platform available through Sharp authorized dealers who enrolled in the Authorized Integrator Program (AIP). A suite of connectors is available from AIP Connect designed to complement most popular Microsoft, cloud and select vertical environments. Centrally managed to simplify IT administration tasks, the AIP Connect suite of connectors includes:

Email Connector – Supporting both on-premise Exchange® Server or Exchange Online® cloud environments, The Email Connector for Sharp OSA-enabled MFPs provides authenticated users with access to all the features normally associated with Microsoft Outlook. Scan to email messages take on the identity of the authenticated user who sent it, not unknown sources. Scanned emails appear in the senders sent messages folder.

MyFolder Connector – With the MyFolder Connector, your Sharp MFP now becomes a convenient way to scan and save routine hardcopy documents to any network share. Seamless integration to Microsoft Active Directory networks provides authenticated users with access to their home folder as well as shared network folders right from the Sharp OSA-enabled MFP's control panel.

Portal Connector – With the Portal Connector, Sharp MFPs provide seamless integration with the Microsoft SharePoint® server, enabling users to upload scans of hardcopy documents and enter keywords right from the MFP. Users can also browse SharePoint document libraries at the MFP and select where to store scanned documents.

OnBase® Connector – With the OnBase connector, Sharp MFPs provide seamless integration with OnBase enterprise content management software by Hyland Software®. This enables users to upload scanned physical documents into OnBase as well as enter keywords right from the MFP. The OnBase connector will help establish critical industry-specific business processes in the enterprise, healthcare, education and more.

OneDrive® Connector – The OneDrive connector helps meet the increased demand for and adoption of Microsoft cloud services. The OneDrive Connector allows users to scan documents to and print from their Microsoft OneDrive for business account directly from the Sharp MFP. Seamless integration with Microsoft OneDrive brings additional convenience and productivity for cloud-enabled workplaces.

EFFICIENT CLOUD COMPUTING

Why Cloud?

With the growing adoption of mobile devices in business, having access to documents virtually anywhere from any device becomes increasingly important. Software as a Service (SaaS) solutions help maximize productivity, and provide the ability to share and collaborate with team members regardless of location. Businesses are turning to the cloud so projects can remain on schedule.

Essentially cloud computing is using shared IT resources "on-demand" over the Internet. It is very cost effective for businesses because it is highly scalable; you pay for what you need. Additionally there is lower burden on IT resources. No one has to install individual desktop clients, or purchase and maintain servers.

Connecting to Third-Party Cloud Services

Through the **Cloud Connect**[4] feature on Sharp's new generation of multi-function products, organizations can seamlessly integrate their paper-based document workflows with popular cloud services. Without requiring external applications or additional installations, these MFPs offer you a built-in ability to connect to the cloud. With simple configuration, your IT team can extend cloud services to efficiently manage paper-based documents. In addition, employees can conveniently access and print their cloud-stored documents directly from the user friendly MFP operation panel. Currently supported cloud services include **Google Drive, OneDrive for business and SharePoint® Online**.

Built-in ability to connect to the cloud.

Cloud Connect feature includes:

- Scan physical documents into popular supported cloud services.
- Print documents on demand from these popular cloud services at the MFP operation panel.
- Supported file formats include **Microsoft Office**[4], **PDF**, **searchable PDF**[4] and more.
- Convenient **single sign-on** to both the MFP and supported third party cloud services.

Outstanding Achievement
In Innovation
Cloud Portal Office

Cloud Portal Office

Cloud Portal Office from Sharp is an award-winning document management and collaboration software service for storing and sharing electronic files and scanned documents. Fully integrated with Sharp OSA-enabled MFPs and Sharp AQUOS BOARD interactive display systems, Cloud Portal Office helps maximize workplace efficiency.

Key Benefits of Cloud Portal Office:

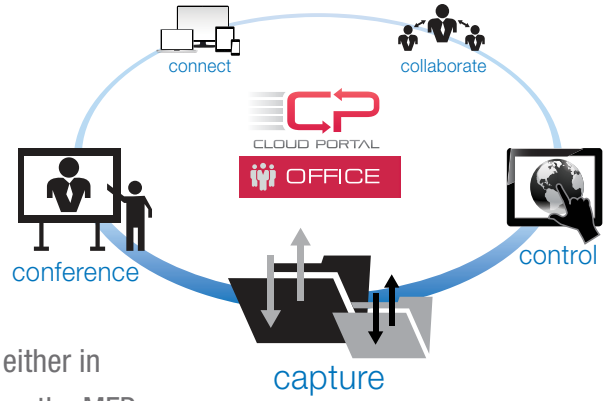
- Flexible content management
- Tighter control over who can access, edit and share your files
- Reduced storage costs
- "On-the-go" access to stored content
- Quickly share meeting materials at the AQUOS BOARD interactive display

Communicate in real-time and control access.

Cloud Portal Office includes a suite of software:

- **Cloud Portal Office –** Access and manage content from the Web.
- **Cloud Portal Office Desktop –** Desktop indexing station with sync capability for Macintosh® and Microsoft computers.
- **Cloud Portal Office Scan/Print –** Sharp OSA-enabled MFP Connector.
- **Cloud Portal Office Mobile –** Mobile apps for Apple iPhones/iPads and Android phones/tablets.
- **Cloud Portal Office Meeting Room –** AQUOS BOARD interactive display connector.

Cloud Portal Office *(continued)*



With the Cloud Portal Office suite, users can:

Capture and store documents!

Scan and archive hardcopy documents directly from your Sharp OSA-enabled MFP to the same location as your digital files. With Indexing from the desktop[5] or the MFP, easily retrieve any of those documents later, either in the office or on-the-go. You can even print PDFs and image files directly from the MFP.

Control your business content!

Cloud Portal Office provides more granular control of stored content with enhanced folder sharing. You can set permissions by user or group to share as much or as little as you like. Built for business, IT Administrators can control access, manage users, reset passwords and more through the included Cloud Portal License Manager. The CPO Mobile app is also compatible with MobileIron's enterprise mobility management platform which provides remote wipe capabilities through its "Retire Device"[6] feature.

Conference with confidence!

Be a star in the conference room. No laptop required! Simply sign in and quickly access your meeting materials on your AQUOS BOARD interactive display. Generate temporary guest credentials so meeting attendees can share their materials. And when you're done, your content leaves with you.

Stay connected to your business documents whether you are at the office, at home, at the airport, etc. from your computer, tablet or smart phone. "On-the-go" access to your content allows you to stay connected so you can continue to work uninterrupted. Simply said, it helps maximize the productivity of an increasingly mobile workforce. Whether working together on a common goal or simply sharing information, CPO improves project collaboration and teamwork. Quickly share folders with individual CPO users or share files by emailing a link to anyone around the world.

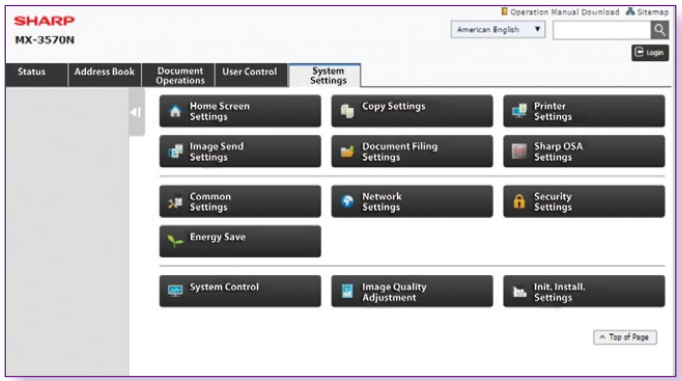
OPTIMUM DEVICE UPTIME

Manage your device, safeguard your data and protect your business.

In today's business world, an immense amount of business information is still communicated on paper. This information must be printed, copied and scanned as a part of the document workflow process. As a result, uninterrupted uptime of MFPs and printers is important to keep up with the speed of business communications. The Sharp device management suite delivers unparalleled control over the administration of Sharp MFPs through intelligent tools. All MFPs and printers in your network are effortlessly managed and monitored to maximize uptime and ensure the continuous flow of important business communications.

Sharp MFP Home Pages

The Sharp MFP Home Page is an embedded device configuration site that makes it easy for users and IT managers to administer the MFP through a standard web browser. Once authenticated, users can change their profiles and document filing folder settings, as well as maintain their one-touch address keys to quickly distribute scanned documents. From anywhere on the network, IT managers can log in and access the device's status, system, cloud connect, security and network settings, as well as maintain user accounts, specify diagnostic email alerts, clone settings and more. Administrator access can be protected via complex password.



Sharp MFP Home Page

Sharp Remote Front Panel

Sharp Remote Front Panel is a powerful tool that enables users and support staff to remotely view the MFP's operation panel and control its features and functions from anywhere via a network. IT managers can see the same exact screen that the end user is viewing, allowing them to quickly understand issues and take the appropriate actions to solve them. Since IT managers can control the device remotely, this capability helps eliminate a costly visit to provide support, thereby reducing users' wait time.

Sharp Remote Front Panel

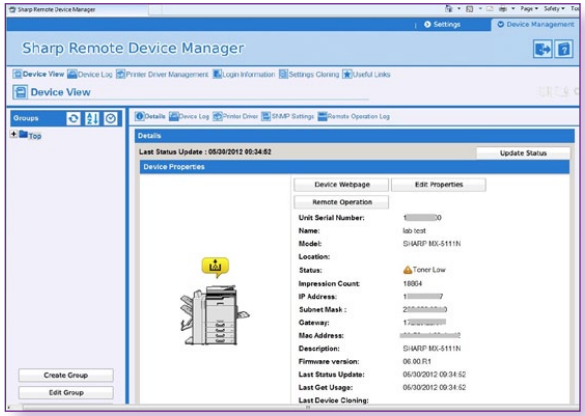
Expedite projects with remote front panel access from anywhere on the network.

Sharp Remote Device Manager (SRDM)

SRDM is a device management and monitoring tool to facilitate centralized management of Sharp MFPs and printers as well as SNMP-compliant printers. From the console, IT managers can view detailed information on each device, such as network connectivity, consumable levels and impression counts. The direct access to remote front panel enables support staff to view and control the LCD panel from anywhere on the network, as well as the ability to review service logs and update firmware. For more intuitive views and to expedite trouble shooting, devices can be grouped together in the utility by model, department, location, network status, IP address and more. Rapid deployment of MFPs can also be accomplished by distributing print drivers to network clients and cloning the settings of a reference device to other similar models all at the click of a button. Toner level is monitored in 1 percent increments on select models.

Key features include but are not limited to:

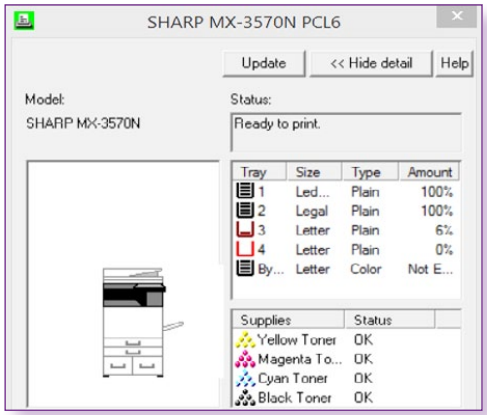
- Manual or automated device discovery
- Remote device monitoring on status and consumables
- Remote device security, network and system configurations
- Remote access to device's front panel to provide quick user assistance
- Driver distribution to reduce IT support time
- Device setting and cloning for fast device set up
- Email notifications to keep IT administrators aware of critical issues



Sharp Remote Device Manager

Sharp Printer Status Monitor

The Sharp Printer Status Monitor is an easy-to-use utility that provides users with real-time information from each MFP directly on their desktop. Prior to sending a job, users can review the device's status, paper supply and toner levels. Information on the progress and completion of each user's print job, as well as preventive maintenance warnings also help to increase device uptime.



Remote Operation Panel

Remote Email Diagnostics

Putting timely and relevant information into the hands of key operators, IT managers and Sharp-authorized service providers is a breeze with Sharp Remote Email Diagnostics. IT managers can easily configure event-driven or scheduled alerts such as low consumable levels, maintenance reminders or click counts and specify the list of recipients for each. This helps bring attention where it is needed, when it is needed, for increased device availability and reduced costs.

Monitoring tools enable real-time alerts and remote diagnostics to help optimize device uptime.

MICAS℠

MICAS is a cloud-based device management application that uses Sharp's Remote Email Diagnostics (R.E.D.) to collect device data and alerts. Sharp Authorized Dealers can use the MICAS service to help monitor and track the status of your devices, making device management hands-free. This unique service tool helps generate automated meter data, real-time service alerts and advanced device monitoring tools. Service providers may offer remote service capabilities and OEM device support via the MICAS Agent, a locally-installed software at your office. Whether your company is large or small, local or remote, the MICAS service will help keep your devices up and running.

MICAS™

MICAS Agent Screen

SECURITY THROUGHOUT THE ORGANIZATION

As MFPs and printers become parts of organizations' integrated document workflows and business processes, security becomes a serious concern. Securely managing business and user data is critical for corporations to be successful. Sharp addresses these concerns by providing a suite of integrated security features designed to help protect your information and document assets.

Physical Security Threats

Typically, MFPs are located in common areas accessible by multiple people. **Unauthorized personnel can potentially access and enter corporate networks when devices are not fully protected**. In addition, any information stored on a local desktop computer or a server accessible through the network can be printed without authorization. Meanwhile, at the MFP device, confidential information can be accidentally or even purposely copied from stored documents, taken from the output tray or faxed without authorization.

Network Security Threats

Unsecured access to your company's stored data makes you vulnerable to having it stolen or altered. Furthermore, cyber criminals may obtain confidential information by unleashing a Denial-of-Service (DoS) attack, a phishing attack, or a virus via the network to launch an advanced cyber-attack. Phone line communications or network data could easily be intercepted when proper security measures are not implemented. Even MFP data stored on a hard disk drive or in memory could be compromised or stolen if not protected.

Privacy • Authorization • Confidentiality • Protection

PROTECTING YOUR ASSETS FROM VULNERABILITY

The Leader in Digital Information Security

Sharp was the first to address security in digital imaging and received the first Common Criteria validation for an MFP in 2001. Since then, Sharp has been regarded as one of the industry's MFP and printer 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.

The Sharp Security Suite

Sharp helps IT administrators and organizations achieve optimal document security through the Sharp Security Suite. The Sharp Security Suite is effective at helping prevent unauthorized access to your network and your most confidential information with safeguards that have been designed from the ground-up. Sharp MFPs utilize a multi-layered approach for protection—providing better control over the users, devices, ports, protocols and applications that access Sharp MFPs on your network.

Sharp Security Suite includes:

- Standard MFP security features
- Data Security Kit (Commercial/Common Criteria Certified)
- Print driver and software application security features
- Sharp OSA technology-enabled security applications

Data and Information Security

Sharp's standard MFP security coupled with the optional Data Security Kit (DSK) protects and controls the major MFP systems and subsystems (print, copy, scan, fax jobs, network settings, memory components and local user interface). The Sharp data encryption method uses the Advanced Encryption Standard (AES) algorithm 256-bit[7] on all data before it is written to RAM and the hard disk drive. It also can provide up to 10 times data overwriting routines[7] to minimize information leakage. In addition, when the device is retired, Sharp MFPs include a standard End-of-Lease feature to ensure that all confidential information and personal data is overwritten before the device leaves customer's facility.

Access Control Security

To limit unwanted access to each device, Sharp MFPs can utilize account codes, user/group profiles, passwords, or external user accounts contained in the local device address book or global user directory. All user credentials are transferred using a proven combination of Kerberos, Transport Layer Security (TLS) or Digest-MD5 encryption to help avoid interception. In addition, select Sharp MFPs can be registered with the Microsoft Active Directory® domain, providing strong Kerberos token-based authentication and authorization. IT administrators can securely and conveniently manage devices and access to "scan to folders" and "scan to emails" with an advanced level of control.

Network Security

Sharp MFPs feature an intelligent network interface that can limit access to specific computers on a network by IP or MAC address, and selectively enable or disable any protocol or service port on each device. All communications to and from the MFP can utilize TLS for secure transmission over the network, and most devices also support SMB, IPv6, IPSec, 802.1X and SNMPv3.

Fax Security

The architecture of Sharp MFPs provides a logical separation between the fax telephone line and LAN. It is, therefore, virtually impossible for attackers to gain access to the internal systems of the MFP or the local network. Additional security features are incorporated such as disabling broadcasting, allowing and rejecting reception from specific numbers, user authentication and more.

Document and Email Security

Protection for sensitive documents can be assured through Sharp-encrypted Adobe PDF files for scanning and printing, or access control and encryption using SSL protocols for scanning, printing, email and setup. In addition, S/MIME email encryption can be enabled for secure email communications.

Audit Trail Security

Sharp's granular audit trail and job log feature provides comprehensive auditing of all user activity. Certain federal regulations parameters, such as "to," "from," "when" and "file name" can be logged, reviewed and archived for conformance. In addition, IT managers can monitor and review event logs such as when and what setting changes were made, or what IP addresses access the device.

SHARP MFP SECURITY AT-A-GLANCE[8]

For models MX-3070N/3570N/4070N and MX-3050N/3550N/4050N

Data and Information Security

- Data overwrite (auto)
- Data overwrite (manual and at power up)[8]
- Up to 10 times data overwrite
- Custom and DoD 5200.22-m Preset Patterns
- 256-bit AES data encryption
- End-of-Lease feature
- Trusted Platform Module (TPM)[8]

Access Control Security

- User authentication (device local/ LDAP/Active Directory®)
- Group authorization
- Page limit control
- Secured admin access to device home page
- Admin and user password management
- User authority setting
- Management of currently logged in users
- ID card reader support
- Scan-to-home and Scan-to-me
- Restrict list printing [8]
- Disable destination selection
- Disable address book registration
- Receipt rejection from specified sender(s)

Network Security

- Active Directory Integration
- TLS encryption (supports 2048-bit certificate)
- 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™ authentication
- Cross-Site Request Forgery (CSRF) measure

Fax Security (Fax option required)

- Confidential fax
- Segregated fax line from network connection
- Prevention of junk fax

Document Security

- Secure print release with a PIN number/user authentication
- Serverless print release
- Encrypted PDF
- Encrypted PDF lockout
- S/MIME (Secure/Multipurpose Internet Mail Extensions)
- Tracking information print
- Hidden pattern print and detection [8]
- Print release Sharp OSA-enabled applications
- Job status display only for logged on user
- Secure pull print FTP/SMB

Audit Trail Security

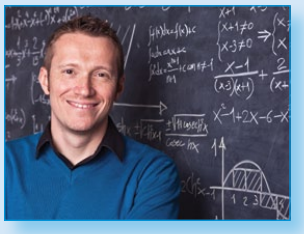
- Job log and usage tracking
- Administrator audit tracking/ system log
- Reporting and data export in .csv and .xml
- Advanced audit trail applications (Partner Program member applications)

MEETING SECURITY STANDARDS AND CERTIFICATIONS

Security for Private Sector and Corporate Organizations

Sharp MFPs provide robust control over information access, transmission and tracking to facilitate compliance with stringent mandates. This can mitigate risk and help avoid any penalties or lawsuits for noncompliance. By implementing the Sharp Security Suite, Sharp MFPs can help many types of organizations reach and maintain compliance:

- **Educational Institutions** meet the requirements of the Family Educational Rights and Privacy Act (**FERPA**) to protect student education records.
- **Financial Institutions** maintain the privacy requirements of the Gramm-Leach-Bliley Act (**GLBA**).
- **Healthcare and Insurance Providers** can achieve and sustain Health Insurance Portability and Accountability Act (**HIPAA**) compliance with confidence.
- Businesses across all industries will benefit from the strict controls over financial information required under the Sarbanes-Oxley (**SOX**) Act.



Security for Public Sector and Government Organizations

Threats to government infrastructure are rapidly growing and the number of attacks continue to rise. On one hand, information sharing is critical for the efficiency of these organizations. On the other hand, security management is becoming more challenging for IT managers. Sharp can help your organization meet US and local government information security requirements through ISO 15408/Common Criteria certifications or comprehensive security features such as data encryption, End-of-Lease feature, administrator audit logs and more.

- **Common Criteria (CC) and ISO 15408**

  ISO 15408 (International Standard Organization 15408) refers to a set of evaluation standards for security products and systems established by the Common Criteria program. It provides a high level of confidence in the security functions of the products evaluated.

Sharp OSA Technology Enables Integration, Customization and Personalization with Enhanced Security

Sharp OSA technology is a software development platform for Sharp MFPs. It is based on industry standard Web-services/ Web API technology and delivers integrated and customized interfaces which help streamline your business processes. Sharp OSA technology helps provide extended access to mission critical business information while your IT network and security policies are maintained.

Sharp OSA Technology for Your Organization

Sharp OSA technology can help employees at every level of your organization by optimizing your IT investment, reducing costs, enhancing productivity and simplifying IT management:

Business Owners, CEOs, COOs and CFOs

- Optimized investments in imaging systems
  - Improved employee performance
  - Compliance with industry regulations
  - Cost reductions and optimized Sharp MFP capability

End-Customers and Business Process Owners

- Instant productivity through engaging interfaces
  - Intuitive and easy-to-use graphical user interface
  - Simplified steps to process documents faster
  - Seamlessly integrated daily document workflow

IT Managers and Administrators

- Integrated document and information security
  - Improved access control and user management and usage tracking
  - Integrated corporate IT assets and security policies
  - Simplified management and support

Application Developers and System Integrators

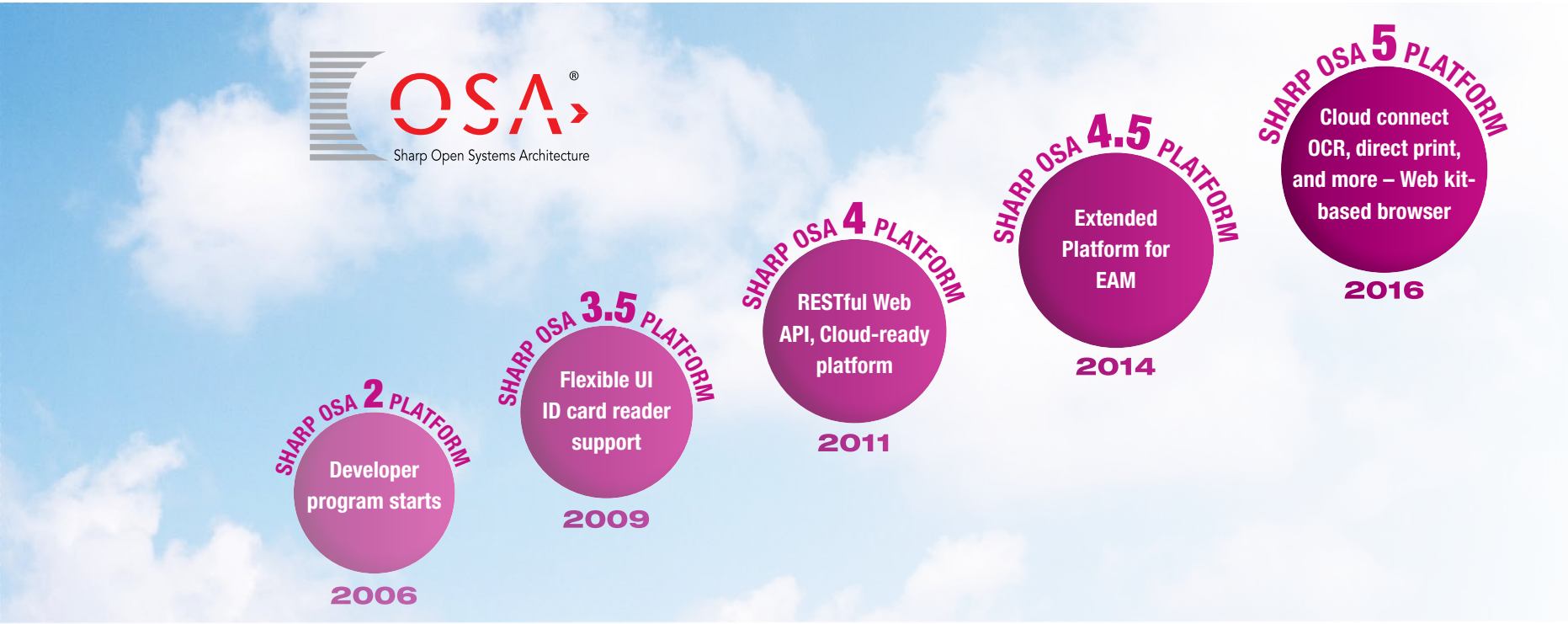
- Extensive Support and Resources to Accelerate Development
  - One of the strongest programs and developer networks in the industry
  - Variety of resources available, including MFP simulator, documentation, developer hotline and more
  - Wide range of programming languages supported on Web-services/web API and Webkit browser-based platform

Industry Leader in Web-Services Based MFP Technology Platform

Sharp pioneered the first web services-based MFP technology platform. Since the birth of Sharp OSA technology, Sharp has been playing an important role in creating the industry's ecosystem. Developing strong connections among independent software vendors, solution providers and IT customers, Sharp has been helping organizations become more competitive in the marketplace.

Cloud-Ready Platform for Intelligent IT Decision Making

Sharp OSA technology is cloud ready, enabling your IT department to make intelligent and informed decisions when it comes to solution deployment. With RESTful Web API, Sharp OSA technology supports Software as a Service (SaaS) or cloud-enabled environments by efficiently assisting communications involving intermediaries such as firewalls. Enabling secure and scalable communications, Sharp OSA cloud-ready technology further expands flexibility in how the document workflow and security solutions are implemented.



Sharp OSA SDK and License Types

The Sharp OSA Software Development Kits (SDKs) are designed to meet practically every development objective and business need.

TYPES OF SHARP OSA SDK

PLATFORM	STANDARD SHARP OSA SDK (SUPPORTED ON ALL SHARP OSA VERSIONS)	EXTENDED SHARP OSA SDK (AVAILABLE ON SHARP OSA4 AND ABOVE PLATFORM)
Functions	• On-Premise Communication Support	• Cloud/SaaS On-Premise Communication Support
	• UI Customization	• UI Customization (Webkit-based browser available for Sharp OSA 5 platform)

	• Job Control
	  ◦ Scan
	  ◦ Print
		• Job Control
		  ◦ Scan
		  ◦ Print
		  ◦ Copy
		  ◦ Fax and Internet Fax
		  ◦ Document Filing

	• EAM Account Control	• EAM Account Control
	• USB Device Control	• USB Device Control

The following modules enable Sharp OSA technology on the device. Select MFP models include these modules as standard.[10]

- **MX-AMX2 Application Communication Module (ACM)**
  Allows Sharp OSA applications to control jobs and functions of Scan, Print, Copy and Fax.

- **MX-AMX3 External Accounting Module (EAM)**
  Allows Sharp OSA applications to control accounting features.

SHARP PARTNER PROGRAM

ALIGN WITH TECHNOLOGY LEADERS

Sharp is committed to meeting the ever-changing demands of the market and has fostered an active and extensive Sharp OSA Developer community whose products help add value and functionality to our award-winning MFPs. As one of the most inclusive in the industry, membership in the Sharp Partner Program is open to qualified software and hardware vendors, authorized dealers and Sharp customers.

Working with Sharp technology, including the Sharp OSA platform, Sharp Partner Program members are able to deliver highly customized solutions that enable MFPs to reach deeper into the organization than ever before. They are also able to develop unique and engaging user interfaces on the LCD display that help facilitate operation and can help increase productivity and overall efficiency. Customers can choose to leverage an existing Sharp OSA-developed application or they can join the program to develop their own custom integrations.

All members of the Sharp Partner Program, Sharp OSA Developers and companies with compatible applications, are given the option to join the Marketing Program to have their products validated by Sharp and gain access to joint marketing tools. There are two types of validation:

- **Sharp OSA Validation**

  Sharp OSA Validation tests the developer's application against a set of criteria to help ensure that the connection between Sharp OSA-enabled MFPs and the developer's application works as specified. Upon successful completion of testing, the integration earns the recognition of being Sharp OSA Validated and is promoted with the use of the Sharp OSA Validation icon, providing you with assurance of successful operation on the supported Sharp OSA-capable MFPs.

- **Sharp Compatible Validation**

  In addition to developers of Sharp OSA applications, the Sharp Marketing Program is also open to qualified software and hardware vendors with products complementary to Sharp MFPs. To qualify, vendors must submit their product for Sharp Compatible validation. Once validated the compatible product is promoted with a unique Sharp Compatible Validation icon, providing confidence that they will work with supported Sharp MFPs.

VALIDATED PROGRAM MEMBER PRODUCTS[11]

ACDI

ACDI is a manufacturer of superior copy and print control devices. The EX2000SWB Vending System copy and print control device allows users to make copies via coins, bills, cards and/or PIN accounts. It provides payment options with optimum reportability. In addition, it allows organizations the option to charge multiple price lines for color, B&W and premium paper sizes. You can track all meter usage through comprehensive reports that make reconciling easy.

BITS

Formed in 1990, Business I.T. Systems Ltd. has developed a number of innovative software solutions designed to bring productivity gains to digital and networked environments. They are the makers of Metis, which is designed to report meter click information either collected automatically from the email server or entered manually (for those machines that do not have the email capability). Reports can be printed in a variety of formats giving the flexibility to record the required information. From the reports users can be billed for their prints and copies giving the ability to recharge the cost.

docSTAR

With over 5,000 customers, docSTAR is a leader in integrated document management solutions. The integrated MFP-Link solution dramatically simplifies the scanning and filing of documents on Sharp OSA-enabled MFPs. Powered by the Autostore framework and docSTAR's intelligent routing, the MFP-Link enables capturing and indexing documents directly from the Sharp MFP. Electronic filing is now easier, faster and smarter.

DocuWare

Founded in 1988, DocuWare ranks among the worldwide leading integrated document management software companies. The DocuWare application automates business processes by easily and securely managing any type of document, regardless of format or source, in a central document pool with authorized access worldwide.

DPD International

DPD International, maker of GoldFax™ software, is a leader in Windows Network Fax Server solutions providing affordable prices for small, medium and Fortune 1000 organizations worldwide. The GoldFax application, built on Microsoft .NET™ technology, integrates Sharp OSA-enabled MFPs into an enterprise-class Fax Server solution at a small business price.

Drivve

Drivve's powerful solutions support the entire document life cycle and are seamlessly integrated with the control panel of Sharp OSA-enabled MFPs. Drivve | Image™ is a document capture and routing solution that allows users to quickly and easily capture paper documents and their metadata for ongoing processing from the MFP control panel. Drivve | DM™ is an award-winning document management and workflow solution that can help you securely index, share, find, process and control digital documents. Drivve | Print™ is an office print and cost recovery solution with modules for mobile printing, device authentication, pull printing and usage tracking/reporting.

ECI

ECI is a leading provider of business management and e-commerce systems software for growing and midsize companies. ECI software provides advanced technology for both network and local device data collection, TCO analysis, automated meter billing integration (e-automate, OMD, LaCrosse) and supply and service alert filtering and workflows. FMAudit™ software can be remotely installed, maintained and updated. FMAudit Enterprise is a comprehensive software solution for managed print and business process automation.

Fabsoft

Fabsoft is a software manufacturer specialized in the automation of various document technologies involving variable data printing, document capture, distribution and print management. With over 20 years of experience, their best-in-class software is backed by highly trained product specialists that help companies implement the perfect workflow solution. The Reform® VDP is a fully scalable and versatile software solution capable of automating every critical workflow process within a business, such as document routing, print management and variable data printing. Reform possesses the capacity to boost a company's day-to-day productivity, thereby promoting sustainable business growth.

FaxCore

Leveraging more than 15 years of fax server industry experience, FaxCore Inc. is a leading provider of fax server solutions. FaxCore™ is a fax server built on the Microsoft .NET® platform. Fax-enable Sharp OSA-capable MFPs, email servers and other business applications easily and seamlessly. FaxCore's Web interface allows for browser-based faxing anywhere anytime and the appliance approach is easy to sell and support.

Imagine IT Software

Imagine IT Software Corp was formed in 2008 from a copier dealer's needs to collect data from MFPs and printers in a more cost effective way. Fleet Control Center is a low cost, high feature product, designed to receive and process Sharp Remote Email Diagnostics (R.E.D). The Fleet Control Center software collects the meters for copy, print, fax and scan by email or SNMP analyzer. Monitor, track, compile, bill and report on valuable data that your Sharp MFPs are communicating daily. Assure Scan is a digital scanning solution that automatically loads the Sharp OSA-enabled MFP with the batch number via our Web portal for scanning with 99 percent accuracy.

InfoDynamics

InfoDynamics is the innovator of inPOINT and Intact Document Solution Software. inPOINT supercharges your Sharpdesk software or Network File System with auto-naming and filing of scanned documents and can query existing databases to help eliminate 90 percent of data entry and make renaming, moving and filing a thing of the past. Intact SMART™, a simple and fresh new take on feature-rich document management is a powerful easy-to-use solution that turns Sharp OSA-enabled MFPs into the center of productivity for any business. With Intact Books SMART™, the innovative integration with QuickBooks® you will increase productivity, ease-of-use and maintain uncompromising security.

Jamex

Since its inception in 1981, Jamex has consistently delivered high-quality vending solutions for copiers, network printers and fax machines. Jamex provides software and hardware for self-service copy and print vending in a wide variety of vertical markets. The NetPad™ Touch boasts an array of impressive hardware and software features, making it the easiest, most secure self-service credit card vending solution.

MaxxVault

MaxxVault provides electronic document management solutions to small, medium and large companies in many vertical industries. MaxxVault software provides easy to use and administer document management with diverse capture options, indexing, text and index search, workflow, archiving, version control, auditing and records management. MaxxVault scales as needed from a narrow feature set in a single department to a full enterprise-wide installation. MaxxConnect integrates MaxxVault Enterprise and MaxxDocs with Sharp OSA-enabled MFPs.

Nuance

Nuance is a leading provider of speech and imaging solutions. AutoStore™ offers the flexibility to capture and process documents, along with security features that help ensure information accuracy and accountability while increasing staff productivity. With one-touch you can scan, index and send your documents from any Sharp OSA-enabled MFP to virtually any destination. The Equitrac Embedded option for Equitrac Express® or Equitrac Office® provide convenient, simple and secure cost management at the Sharp OSA-enabled MFP. When deployed in conjunction with a Sharp OSA-enabled MFP, Equitrac Embedded replaces the Equitrac Page Counter terminal and allows full cost management for copies, scans and faxes from the MFP's LCD control panel.

PaperCut

PaperCut Software is an Australian company that developed PaperCut™ MF, the low cost software solution that enables the control and management of printers and multifunctional devices. PaperCut MF is primarily used to manage print and copy access, implement quotas, charge per page and account by user, department or client via silent tracking or enforced selection. The application is used across all markets: education and small, medium or enterprise businesses ranging from one to many hundreds of thousands of users.

Pcounter

Created in 1993, Pcounter is a division of A.N.D. Technologies, a pioneer in innovative print management software. Pcounter is a popular and competitively priced application used worldwide for print/copy tracking and management most often in education and other vertical business markets to track usage on printers of all shapes and sizes. Sharp OSA technology helps extend the functionality of Pcounter to include tracking of all walkup activity (copy/fax/scan) on Sharp OSA-enabled MFPs. It also provides authentication services, both card-based and data input, via the LCD touch screen.

Print Audit

Print Audit is a print management company that develops print tracking software and hardware solutions that enable organizations to analyze, reduce and recover their printing and photocopying costs. Print Audit Embedded integrates directly with the touch screen on compatible Sharp OSA-enabled MFPs allowing users to track walk-up copying, scanning, faxing and server printing with the Print Audit database. Users authenticate through the Sharp MFP LCD panel to access device features. All document details and costs are tracked along with the username and/or validated billing information.

PrintFleet

Founded in 2003, PrintFleet Inc. provides print management and assessment software along with a host of training, business development and support programs for dealers and distributors in the imaging and managed print services industries. PrintFleet Enterprise™ DCA (Data Collector Agent) software application is installed on a non-dedicated server at the client location. The DCA collects critical printing device data on a predetermined basis and sends the information to the dealer's centralized database. Users can log into the dealer's custom PrintFleet Web interface to view and analyze the data, or set up automated service alerts, reports, maintenance flags and meter exports.

PrintNet Solutions

PrintNet Solutions is the creator of the CopyNet™ Web portal utility designed for Sharp OSA-enabled MFPs. CopyNet provides machine owners with both an external Internet and extranet portal that their customers may use to submit print jobs to Sharp OSA-enabled MFPs. The portal has a built-in PDF converter that converts over 300 file formats from their native data to PDFs. This enables MFPs to print these files automatically, eliminating the need for machine owners to have the authoring software or any plug-ins and printer description files.

Prism Software

Prism Software provides a complete suite of industry-leading software applications for the MFP and printer markets. The DocRecord application is an advanced and powerfully featured, low cost document management system for all types of organizations. DocRecord® provides both local and web-based document search and retrieval. Features include: Email retention, Microsoft Office integration, OCR, batch scanning, full text search, advanced search functions, viewing of over 300 file types in their native formats, automated document filing and indexing, audit trails, check-in and check-out, Bates stamping, versioning, roll-back, high security and much more.

RF IDeas

RF IDeas designs, develops and manufactures proximity and contactless reader solutions that expand building access cards to hundreds of applications. For multifunction printers, the devices blend the need for security and convenience by utilizing the existing employee ID badge as authentication and to eliminate the need to type or key entry. AIR ID® Enroll is a USB reader that enables the use of common contactless smartcard badges for secure printing. pcProx® is a USB reader that enables the use of common proximity badges for secure printing. pcSwipe® is a USB reader that enables the use of common magnetic stripe badges for authentication and secure printing. pcProx Plus Enroll is USB reader for both 125kHz and 13.56MHz frequencies.

Ringdale

Ringdale is the global provider of FollowMe®, the document output management solution, which provides unrivalled flexibility for organizations looking to reduce costs, increase security and improve the efficiency of their printing environments. FollowMe ensures usability and adaptability within diverse printing environments, supporting both host and office printing. Ringdale invented FollowMe and the print roaming technology in 1997 and has continued to bring customer focused solutions to market worldwide. *www.followme.ringdale.com*

RSA

Since 1986, RSA has focused exclusively on solving printing challenges for customers by delivering software solutions that make printing documents convenient, simple, accurate and cost-effective. WebCRD™ is an enterprise-class, award-winning Web-based ordering, production management and cost tracking application that automates job submission to the print center. With RDOPrint™, you can leverage your investment in documents created by Xerox® FreeFlow Makeready and DigiPath. RDOPrint converts the proprietary Xerox® RDO (Raster Document Objects) files to PostScript so they can be printed on Sharp MFPs or converted to Adobe® PDF for convenient viewing, sharing and archival.

Sepialine

Founded in 1998, Sepialine delivers products and services to capture, analyze and report business expenses—print, copy, scan, fax, phone and more—across multiple platforms, devices and sources. Sepialine's award-winning Argos Cost Recovery System is used by leading corporate and service professionals, including graphics, advertising, legal, architecture, engineering and reprographic companies, around the world. Argos OnBoard for Sharp OSA-enabled MFPs provides print, copy and scan tracking capabilities as well as Sepialine's innovative workflow that routes unbilled expense activity to each user's desktop for allocation.

Solgenia

Solgenia, publisher of FACSys®, has advanced fax messaging into an indispensable business tool that fully integrates into critical areas requiring communication capabilities. The FACSys Connector for Sharp OSA-enabled MFPs fully integrates with Sharp MFPs, permitting users to send and retrieve FACSys fax messages directly from the LCD touch screen interface. The "QuickFax" feature enables users to send faxes from their Sharp MFP without having to login to the FACSys server. All messages continue to be sent by the fax server and are accessible for audit purposes.

Square 9 Softworks

Square 9 Softworks is a leading developer of innovative, business-centric software solutions including the award-winning SmartSearch® Document Management Suite. Dedicated to making document management available to organizations of all sizes, Square 9 Softworks designs solutions built on open architecture and cutting-edge technologies that drive efficiency and productivity across all business applications. SmartSearch Office Workflow and the powerful line of Sharp OSA-enabled MFPs can help evolve your office with the introduction of effortless document management. Through direct integration with your Sharp MFP you can easily scan, distribute and store all your documents in a centralized repository.

The Network Place

The Network Place, LLC is the creator of DocPlace™, one of the most sophisticated document management systems available on the market today. The DocPlace S-MFP Client exposes a subset of DocPlace functionalities allowing users to scan, search and edit documents directly at the LCD panel of the supported Sharp OSA-enabled MFPs. Three editions of DocPlace (Enterprise, Standard and Express) give the flexibility to choose the most affordable solution that best suits business needs from various customer segments.

Umango

Umango is a global leader in the development of document scanning, file conversion and imaging software. They develop applications that are powerful, yet easy to install, configure and use. With virtually seamless connectivity into back office products, their solutions bring flexibility and efficiency to document processing. Umango Convert is a document conversion and routing utility that runs as a Windows service. Documents are triggered from MFPs, email attachments or network folders and converted into a range of document formats (docx, xlsx, searchable pdf/a etc.), then routed into network folders or a variety of office products. Umango Extract is a scanning application that delivers efficiency in scanning, indexing and storing of documents. Documents are scanned from MFPs or scanners, or imported from network folders and routed into an assortment of office products.

XMedius

XMedius is a global leader in advanced fax server solutions for IP networks. XMediusFAX™ and OpenLine solutions leverage IP telephony and Unified Communications systems to enhance productivity, collaboration and ROI by integrating fax on the desktop. Deployed worldwide since 2002, XMediusFAX T.38 Fax over IP (FoIP) software is scalable and secure. XMediusFAX™ is Sagemcom's patented IP fax server solution supporting the standardized T.38 Fax over IP (FoIP) protocol. A global IP fax market leader and pioneer since 2002, XMediusFAX can be deployed in small, medium and enterprise organizations and is available in four editions: Service Provider, Enterprise, Express and AXP for the Cisco® ISR.

X-Rite

X-Rite is the global leader in color science and technology. The company, which now includes design industry color leader Pantone, Inc., develops, manufactures, markets and supports innovative color management solutions including measurement systems, software, color standards and services. ColorMunki Design is an all in one profiling solution combining hardware and software that allows you to work with any color from the visible spectrum. Select PANTONE® colors or capture colors from just about any substrate, plus preview out-of-gamut colors. Essential color control functions for calibrating displays, projectors and printers all in one device.

Y Soft

Founded in 2000, Y Soft is a progressive, globally operating company that provides print management solutions that enable companies and organizations of all sizes to control reprographic costs and reduce waste. YSoft SafeQ® is an authentication, accounting and access control solution that helps organizations simplify and secure scanning, copying and printing and enforce policies for use of printers and multifunction devices.

Print and Network Compatibility (**monochrome**)

	MX-B201D	MX-M232D	MX-M266N/ M316N/M356N	MX-B402/ B402SC	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/ M754N	MX- M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS									
Speed	20 ppm	23 ppm	26/31/35 ppm	40 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	105/120 ppm	90/105/120 ppm
Function	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S	C/P/S/F
Maximum Paper Size	Legal	Ledger	Ledger	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
On-Screen Image Preview	-	-	-	Avail	Std	Std	Std	Std	Std
Network Scanning	Std	Avail	Std	Std	Std	Std	Std	Std	Std
Hard Disk Drive	-	-	Avail	Std	Std	Std	Std	Std	Std
Remote Front Panel	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Retractable Keyboard	-	-	Avail	Std (B402SC)	Avail	Yes	Yes	Std	Std
Sharp OSA Platform Version	-	-	3.5	3.5	4.5 Lite	4.5	4.5	4.5	4.5
NETWORK AND PRINT & SCAN SUPPORT									
Wireless LAN	-	-	-	-	Avail	Std	Std	-	-
Sharpdesk Mobile Compatibility	-	-	Yes	Yes	Yes	Yes	Yes	-	Yes
Google Cloud Print	-	-	-	-	-	Yes	Yes	-	-
Sharp Print Service Plugin for Android Printing Framework*	-	-	-	-	-	Yes	Yes	-	-
IPv6	Std	-	Avail	Std	Std	Std	Std	Std	Avail
Adobe Postscript Support	Avail	Avail	Avail	Avail	Avail	Std	Std	Std	Std
USB Printing	Avail	Std	Std	Std	Std	Std	Std	Std	Std
Compact PDF (Scan)	-	-	Avail	-	-	Std	Std	Avail	Avail
OS / APPLICATION SUPPORT									
Windows 8/8.1, Windows 10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 2012 / R2 Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sharp Universal Driver (for Windows)	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC OSX 10.10 / MAC OSX 10.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Linux	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAP Device Types	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CITRIX®									
Citrix XenApp 6.5	Not Tested	Not Tested	Validated	Not Tested	Validated	Validated	Validated	In progress	Validated
Citrix XenApp 6.0 / Citrix XenApp 5.0	-	-	Validated	Validated	Validated	Validated	Validated	In progress	Validated
HEALTHCARE ENVIRONMENT									
McKesson Star 2000	-	Planned	-	Certified	Certified	Certified	-	-	-
Cerner Millennium	-	Planned	-	Certified	Certified	Certified	-	-	-
Epic	Compatible	Compatible	-	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Meditech Magic OS	Compatible	Compatible	-	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

* Plugin app will be available in Spring 2016

Print and Network Compatibility (**color**)

	MX-C301W	MX-C250/ C300W/C300P	MX-2615N/ 3115N	MX-2616N/ 3116N	MX-2640N/ 3140N/3640N	MX-C312/ C402SC	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-6240N/ 7040N	MX-6500N/ 7500N (without Fiery Option)
GENERAL MFP FEATURES/FUNCTIONS											
Speed	30ppm	25/30 ppm	26/31 ppm	26/31 ppm	26/31/36 ppm	31 ppm (C312) 40 ppm (C402SC)	30/35/40 ppm	30/35/40 ppm	41/51 ppm	62/70 ppm	65/75 ppm
Function	C/P/S/F	C/P/S (C250) C/P/S/F (C300W) P (C300P)	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S
Maximum Paper Size	Legal	Legal	12" x 18"	12" x 18"	12" x 18"	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
On-Screen Image Preview	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std
Network Scanning	Std	Std (C250, C300W)	Std	Std	Std	Std	Std	Std	Std	Std	Std
Hard Disk Drive	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std
Remote Front Panel	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std
Retractable Keyboard	-	-	Option	Option	Std	Std (C402SC)	-	Std	Std	Std	Std
Sharp OSA Platform Version	4.5 Lite	-	4.5 Lite	-	4.5	3.5	5.0	5.0	4.5	4.5	4.5
NETWORK AND PRINT & SCAN SUPPORT											
Wireless LAN	Std	Std (C300W, C300P)	-	-	Std	-	Std	Std	Std	-	-
Sharpdesk Mobile Compatibility	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
Mopria	-	-	-	-	-	-	Yes	Yes	-	-	-
Google Cloud Print	-	-	-	-	Yes	-	Std	Std	Yes	-	-
Sharp Print Service Plugin for Android Printing Framework*	-	-	-	-	Yes	-	Yes	Yes	Yes	Yes	-
Distributed File Systems (DFS)	-	-	-	-	-	-	Yes	Yes	-	-	-
IPv6	Std	Std	Std	Std	Std	Std	Yes	Std	Std	Std	Std
Adobe Postscript Support	Std	Std	Option	Option	Std	Std	Yes	Std	Std	Std	Std
USB Printing	Std	Std	Std	Std	Std	Std	Yes	Std	Std	Std	Std
Compact PDF (Scan)	-	-	Option	Option	Option	-	Std	Std	Std	Option	Option
OS / APPLICATION SUPPORT											
Windows 8/8.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Windows 2012 / R2 Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sharp Universal Driver (for Windows)	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
MAC OSX 10.10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC OSX 10.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Linux	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SAP Device Types	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

continued on next page...

Certain features and functions may require options.
* Will be available in Spring 2016

Print and Network Compatibility (**color**) *continued*

	MX-C301W	MX-C250/ C300W/C300P	MX-2615N/ 3115N	MX-2616N/ MX-3116N	MX-2640N/ 3140N/3640N	MX-C312/ C402SC	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-6240N/ 7040N	MX-6500N/ 7500N (without Fiery Option)
GENERAL MFP FEATURES/FUNCTIONS											
Speed	30ppm	25/30 ppm	26/31 ppm	26/31 ppm	26/31/36 ppm	31 ppm (C312) 40 ppm (C402SC)	30/35/40 ppm	30/35/40 ppm	41/51 ppm	62/70 ppm	65/75 ppm
Function	C/P/S/F	C/P/S (C250) C/P/S/F (C300W) P (C300P)	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S
Maximum Paper Size	Legal	Legal	12" x 18"	12" x 18"	12" x 18"	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
CLOUD CONNECTIVITY											
OneDrive (Print & Scan)	-	-	-	-	-	-	Yes (w/MX-AMX2)	Std	-	-	-
SharePoint Online (Print & Scan)	-	-	-	-	-	-	Yes (w/MX-AMX2)	Std	-	-	-
Goggle Drive (Print & Scan)	-	-	-	-	-	-	Yes (w/MX-AMX2)	Std	-	-	-
CITRIX®											
Citrix XenApp 7.6	-	-	-	-	-	-	Validated	Validated	-	-	-
Citrix XenApp 7.5	-	-	-	-	-	-	Validated	Validated	-	-	-
Citrix XenApp 6.5	Validated	Validated	Validated	Validated	Validated	Not Tested	Validated	Validated	Validated	Validated	Validated
Citrix XenApp 6.0	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated
Citrix XenApp 5.0	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated	Validated
HEALTHCARE ENVIRONMENT											
McKesson Star 2000	Planned	Certified (C250, C300W)	Certified	-	Certified	Compatible (C402SC)	Planned	Planned	Certified	-	-
Cerner Millennium	Planned	In Evaluation (C250, C300W)	Certified	-	Certified	Certified (C402SC)	Planned	Planned	Certified	-	-
Epic	Compatible	Compatible	Compatible	-	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Meditech Magic OS	Compatible	Compatible	Compatible	-	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

Device Management Compatibility (**monochrome**)

	MX-B201D	MX-M232D	MX-M266N/ M316N/M356N	MX-B402/ B402SC	MX-M283/M363/ M453/M503	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/ M754N	MX-M623/ M753	MX-M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS											
Speed	20 ppm	23 ppm	26/31/35 ppm	40 ppm	28/36/45/50 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	62/75 ppm	105/120 ppm	90/105/120 ppm
Function	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S	C/P/S/F
Maximum Paper Size	Legal	Ledger	Ledger	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
SHARP ADMINISTRATION UTILITY											
Printer Status Monitor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHARP MFP DEVICE WEBPAGE (WHEN DSK IS INSTALLED, SOME OF USER FEATURES ARE RESTRICTED)											
Device Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL Secure Device Home Page Access	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Address Book (Local)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Address Book (Global)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USER FEATURES											
Address Book Access	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Folder Setups (Document Filing)	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scan Destinations	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paper Tray Setting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADMINISTRATOR FEATURES											
Password Protected Access	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Add Users	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Role (Admin, Users, etc.)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User/Group Access Control, Page Limit and Permissions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System, Network, Security, Application Energy Configuration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Email Notification Setting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Favorite Group Custom Setting	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Energy/Toner Saving Mode	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MFP Home Screen Customization	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB Device Support	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Job Log	N/A	N/A	Yes with opt. HDD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operation Manual Download	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Certain features and functions may require options.
* Will be available in Spring 2016

Device Management Compatibility (**monochrome**) *continued*

	MX-B201D	MX-M232D	MX-M266N/ M316N/M356N	MX-B402/ B402SC	MX-M283/M363/ M453/M503	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/ M754N	MX-M623/ M753	MX-M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS											
Speed	20 ppm	23 ppm	26/31/35 ppm	40 ppm	28/36/45/50 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	62/75 ppm	105/120 ppm	90/105/120 ppm
Function	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S	C/P/S/F
Maximum Paper Size	Legal	Ledger	Ledger	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
SHARP REMOTE DEVICE MANAGEMENT UTILITY (SRDM)											
Device Home Page Access	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Print Driver Distribution	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Discovery	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMPv3	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Status	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Meter Counts	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Serial Number	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Email alert for status changes, alerts, warnings and maintenance conditions.	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TONER LEVEL REPORTING											
1% Increment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5% Increment	-	-	Yes*	-	-	Yes	Yes	Yes	-	Yes	Yes
25% Increment	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote Operation Panel (in simulation mode)	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Service Logs (22-6, 23-2)	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firmware Version	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Firmware Updates	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Storage Backup	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Device Cloning	-	-	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Certain features and functions may require options.
* Will be available in Spring 2016

Device Management Compatibility (**color**)

	MX-C301W	MX-C250/ C300W/C300P	MX-2615N/ 3115N	MX-2616N/ 3116N	MX-2640N/ 3140N/3640N	MX-C312/ C402SC	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-6240N/ 7040N	MX-6500N/ 7500N (without Fiery Option)
GENERAL MFP FEATURES/FUNCTIONS											
Speed	30 ppm	25/30 ppm	26/31 ppm	26/31 ppm	26/31/36 ppm	31 ppm (C312) 40 ppm (C402SC)	30/35/40 ppm	30/35/40 ppm	41/51 ppm	62/70 ppm	65/75 ppm
Function	C/P/S/F	C/P/S (C250) C/P/S/F (C300W) P (C300P)	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S
Maximum Paper Size	Legal	Legal	12" x 18"	12" x 18"	12" x 18"	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
SHARP ADMINISTRATION UTILITY											
Printer Status Monitor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
SHARP MFP DEVICE WEBPAGE (WHEN DSK IS INSTALLED, SOME OF USER FEATURES ARE RESTRICTED)											
Device Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL Secure Device Home Page Access	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Address Book (Local)	Yes	Yes (C250, C300W)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Address Book (Global)	Yes	Yes (C250, C300W)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USER FEATURES											
Address Book Access	Yes	Yes (C250, C300W)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Folder Setups (Document Filing)	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scan Destinations	Yes	Yes (C250, C300W)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paper Tray Setting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADMINISTRATOR FEATURES											
Password Protected Access	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Add Users	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User Role (Admin, Users, etc.)	Yes	Yes (C250, C300W)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User/Group Access Control, Page Limit and Permissions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
System, Network, Security, Application Energy Configuration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Email Notification Setting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Favorite Group Custom Setting	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Energy/Toner Saving Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MFP Home Screen Customization	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB Device Support	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Job Log	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operation Manual Download	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Certain features and functions may require options.

* Will be available in Spring 2016

Device Management Compatibility (**color**) *continued*

	MX-C301W	MX-C250/ C300W/C300P	MX-2615N/ 3115N	MX-2616N/ 3116N	MX-2640N/ 3140N/3640N	MX-C312/ C402SC	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-6240N/ 7040N	MX-6500N/ 7500N (without Fiery Option)
GENERAL MFP FEATURES/FUNCTIONS											
Speed	30 ppm	25/30 ppm	26/31 ppm	26/31 ppm	26/31/36 ppm	31 ppm (C312) 40 ppm (C402SC)	30/35/40 ppm	30/35/40 ppm	41/51 ppm	62/70 ppm	65/75 ppm
Function	C/P/S/F	C/P/S (C250) C/P/S/F (C300W) P (C300P)	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S/F	C/P/S
Maximum Paper Size	Legal	Legal	12" x 18"	12" x 18"	12" x 18"	Legal	12" x 18"	12" x 18"	12" x 18"	12" x 18"	12" x 18"
SHARP REMOTE DEVICE MANAGEMENT UTILITY (SRDM)											
Device Home Page Access	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Print Driver Distribution	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Device Discovery	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
SNMPv3	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Device Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Meter Counts	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Device Serial Number	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Email alert for status changes, alerts, warnings and maintenance conditions.	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
TONER LEVEL REPORTING											
1% Increment	N/A	N/A	N/A	N/A	N/A	N/A	Yes*	Yes*	N/A	N/A	N/A
5% Increment	Yes	Yes	Yes	Yes	Yes	N/A	Yes*	Yes*	Yes	Yes	Yes
25% Increment	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Remote Operation Panel (in simulation mode)	Yes	N/A	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Service Logs (22-6, 23-2)	Yes	N/A	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Firmware Version	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Firmware Updates	Yes	N/A	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Storage Backup	Yes	N/A	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes
Device Cloning	Yes	N/A	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes	Yes	Yes

Certain features and functions may require options.
* Will be available in Spring 2016

Sharp Security Suite Compatibility (**monochrome**)

	MX-B201D	MX-M232D	MX-M266N/ M316N/M356N	MX-B402/ B402SC	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/ M754N	MX- M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS									
Speed	20 ppm	23 ppm	26/31/35 ppm	40 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	105/120 ppm	90/105/120 ppm
Hard Disk Drive	-	-	Avail	Yes	Yes	Yes	Yes	Yes	Yes
DATA SECURITY KIT (DSK) & COMMON CRITERIA CERTIFICATION									
Data Security Kit (Optional)	-	-	MX-FR48U	MX-FR26U (B402) MX-FR27U (B402SC)	MX-FR45U	MX-FR44U/FR44	MX-FR47U/FR47	MX-FR53U	MX-FR38U
DATA AND INFORMATION SECURITY									
Data Overwrite (Auto)	-	-	Std with opt. HDD	DSK Feature	Std	Std	Std	Std	Std
Data Overwrite (Manual)	-	-	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
Up to 7 Times Overwrite	-	-	Std with opt. HDD	DSK Feature	Std	Std	Up to 10 times	Std	Std
Custom Overwrite Pattern	-	-	-	-	-	-	Std DoD5220.22-M preset	-	-
256 bit Data Encryption	-	-	Std with opt. HDD	Std	Std	Std	Std	Std	Std
End of Lease Erase	-	-	Std	-	Std	Std	Std	Std	Std
ACCESS CONTROL SECURITY									
User Authentication (local address book)	Per account code	Per account code	Std	Std	Std	Std	Std	Std	Std
User Authentication (LDAP)	-	-	Std	Std	Std	Std	Std	Std	Std
User Authentication (Active Directory)	-	-	-	-	-	-	-	-	-
Group Authorization	-	Per account code, Copy/Print	Std	Std	Std	Std	Std	Std	Std
Page Limit Control	-	Per account code, Copy/Print	Std	Std	Std	Std	Std	Std	Std
Secured Access to Device Home Page	Std with opt. NW Kit	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
Password Management	Std with opt. NW Kit	Std with opt. NW Kit	Std with opt. HDD	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
Scan to Home Directory	-	-	-	-	-	Std	Std	-	-
Scan to Me	-	-	-	-	Std	Std	Std	Std	Std
Disable Destination Method Selection	-	-	Std	Std	Std	Std	Std	Std	Std
Disable Address Book Registration	-	-	Std	Std	Std	Std	Std	Std	Std
Receipt Rejection from Specified User(s)	-	-	Std	Std	Std	Std	Std	Std	Std
Lock Users After 3 Tries	-	-	Std	Std	Std	Std	Std	Std	Std
USB Card Reader Support	-	-	Std	Std	Std	Std	Std	Std	Std

Certain features and functions may require options.

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* 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.

**** Requires optional HDD when it is not equipped.

Sharp Security Suite Compatibility (**monochrome**) *continued*

	MX-B201D	MX-M232D	MX-M266N/ M316N/M356N	MX-B402/ B402SC	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/ M754N	MX- M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS									
Speed	20 ppm	23 ppm	26/31/35 ppm	40 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	105/120 ppm	90/105/120 ppm
Hard Disk Drive	-	-	Avail	Yes	Yes	Yes	Yes	Yes	Yes
NETWORK SECURITY									
TSL Encryption	-	HTTPS/SMTP/POP3/LDAP	Std	Std	Std	Std (2048 bit certificate)	Std (2048 bit certificate)	Std	Std
Security Policy Management	Std fixed setting	Std fixed setting	Std	Std	Std	Std	Std	Std	Std
SNMPv3 Support	-	-	Std	Std	Std	Std	Std	Std	Std
SNMP Community String Support	-	-	Std	-	Std	Std	Std	Std	Std
Kerberos	-	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
IPv6 and IPSec	-	-	Std	Std	Std	Std	Std	Std	Std
Device Certificates	-	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
IP Address Filtering	Std with opt. NW Kit	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
MAC Address Filtering	Std with opt. NW Kit	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
Port Control (Disable/Enable Ports)	Std with opt. NW Kit	Std with opt. NW Kit	Std	Std	Std	Std	Std	Std	Std
Admin Password Protection**	-	-	Std	Std	Std	Std	Std	Std	Std
IEEE 802.1X Support	-	-	Std	Std	Std	Std	Std	Std	Std
FAX SECURITY (FAX OPTION MAY BE REQUIRED)									
Separation Between Fax and Network	Std	Std	Std	Std	Std	Std	Std	Std	Std
Confidential Fax	-	Std	Std	Std	Std	Std	Std	Std	Std
Filter Junk Fax	Std	Std	Std	Std	Std	Std	Std	Std	Std
DOCUMENT SECURITY									
Job Status Display Only Logged On User	-	-	-	-	Std	Std	Std	Std	Std
Secure Pull Print FTP/SMB	-	-	-	-	Std	Std	Std	Std	Std
Secure Print Release with a PIN Number	-	-	Std with opt. HDD	Std	Std	Std	Std	Std	Std
Serverless Print Release	-	-	-	-	-	-	-	-	-
Encrypted PDF Transmission	-	-	Std	Std	Std	Std	Std	Std	Std
Encrypted PDF Direct Printing	-	-	With opt. PS Expansion Kit****	Std	Std with opt. PS3 Kit	Std	Std	Std	Std
Hidden Security Pattern Print	-	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Hidden Security Pattern Detection	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
AUDIT TRAIN SECURITY									
Job Log and Usage Tracking	-	-	Std with opt. HDD	Std	Std	Std	Std	Std	Std
Administrator Audit Log	-	-	-	-	-	-	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.

*** Supported only on “N” models.

**** Requires optional HDD when it is not equipped.

Sharp Security Suite Compatibility (**color**)

	MX-C301W	MX-C300P	MX-C250/ C300W	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-6240N/ 7040N	MX-6500N/ 7500N
GENERAL MFP FEATURES/FUNCTIONS											
Speed	30 ppm	30/30 ppm	25/30 ppm	26/31 ppm	26/31/36 ppm	31 ppm	30/35/40 ppm	30/35/40 ppm	41/51 ppm	62/70 ppm	65/75 ppm
Hard Disk Drive	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-FR36U	MX-FR43U
DATA AND INFORMATION SECURITY											
Data Overwrite (Auto)	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
Data Overwrite at Power-up	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	Std	Std
256 bit Data Encryption	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
End of Lease Erase	Std	-	-	Std	Std	-	Std	Std	Std	Std	Std
Trusted Platform Module (TPM)	-	-	-	-	-	-	DSK Feature	DSK Feature	-	-	-
ACCESS CONTROL SECURITY											
User Authentication (local address book)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
User Authentication (LDAP)	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std
User Authentication (Active Directory)	-	-	-	-	-	-	Std	Std	-	-	-
Group Authorization	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
Page Limit Control	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
Password Management	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
User Authority Setting	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
Scan to Home Directory	-	-	-	-	Std	-	Std	Std	Std	-	-
Scan to Me	Std	-	-	Std	Std	-	Std	Std	Std	Std	Std
Disable Destination Method Selection	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
Disable Address Book Registration	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
Lock Users After 3 Tries	Std	-	-	Std	Std	DSK Feature (C312) Std (C402SC)	Std	Std	Std	Std	Std
USB Card Reader Support	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std

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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 (Email & Communication).
****** Only supports the file without a password.

Sharp Security Suite Compatibility (**color**) *continued*

	MX-C301W	MX-C300P	MX-C250/ C300W	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-6240N/ 7040N	MX-6500N/ 7500N
GENERAL MFP FEATURES/FUNCTIONS											
NETWORK SECURITY											
TSL Encryption	Std	HTTPS for client only	HTTP client only	Yes	Std	Std	Std	Std	Std	Std	Std
Security Policy Management	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
SNMPv3 Support	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
SNMP Community String Support	Std	-	Yes	Std	Std	-	Std	Std	Std	Std	Std
Kerberos	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
IPv6 and IPSec	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std
Device Certificates	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std
IP Address Filtering	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std
MAC Address Filtering	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std
Port Control (Disable/Enable Ports)	Std	Yes	Yes	Std	Std	Std	Std	Std	Std	Std	Std
Admin Password Protection**	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
IEEE 802.1X Support	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
S/MIME	Std	-	-	-	-	-	Std	Std	-	-	-
FAX SECURITY (FAX OPTION MAY BE REQUIRED)											
Separation Between Fax and Network	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
Confidential Fax	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
Filter Junk Fax	Std	-	Yes	Std	Std	Std	Std	Std	Std	Std	Std
DOCUMENT SECURITY											
Job Status Display Only Logged on User	Std	-	-	-	Std	-	Std	Std	Std	DSK Feature	DSK Feature
Secure Pull Print FTP/SMB	Std	-	-	-	Std	-	Std	Std	Std	-	-
Secure Print Release with a PIN Number	Std	-	Std	Std	Std	Std	Std	Std	Std	Std	Std
Serverless Print Release	-	-	-	-	-	-	Std	Std	-	-	-
Encrypted PDF Transmission	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
Hidden Security Pattern Print	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
Hidden Security Pattern Detection	DSK Feature	-	-	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature	DSK Feature
AUDIT TRAIN SECURITY											
Job Log and Usage Tracking	Std	-	-	Std	Std	Std	Std	Std	Std	Std	Std
Admin Audit Tracking	-	-	-	-	-	-	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 (Email & Communication).
****** Only supports the file without a password.

Sharp OSA Technology and Application Compatibility (**monochrome**)

	MX-B402/ B402SC	MX-M266N/ M316N/M356N	MX-M283N/M363N/ M453N/M503N	MX-M364N/ M464N/M564N	MX-M365N/ M465N/M565N	MX-M654N/M754N	MX-M623N/M753N	MX- M1055N/ M1205N (without Fiery Option)	MX-M904/ M1054/M1204
GENERAL MFP FEATURES/FUNCTIONS									
Speed	40 ppm	26/31/35 ppm	28/36/45/50 ppm	36/46/56 ppm	36/46/56 ppm	65/75 ppm	62/75 ppm	105/120 ppm	90/105/120 ppm
LCD Display – Touchscreen Color	8.5"	7.0"	8.5"	7.0"	10.1"	10.1"	8.5"	10.1"	10.1"
Screen Formats	W-VGA	W-VGA	W-VGA, H-VGA	W-SVGA	W-SVGA	W-SVGA	W-VGA	W-SVGA	W-SVGA
Latest Sharp OSA Platform Version	V3.5	V3.5	V3.5	V4.5 Lite	V4.5	V4.5	V3.5	V4.5	V4.5
SHARP OSA TECHNOLOGY SUPPORT									
GENERAL FEATURES FOR SHARP OSA APPLICATIONS									
Custom User Interface - HTML Browser-based	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Custom User Interface - Forms-based	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sharp OSA Trial Mode	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes
Extended SDK (ACM)	-	-	-	Yes	Yes	Yes	-	Yes	Yes
Extended SDK (EAM)	-	-	-	Yes	Yes	Yes	-	Yes	Yes
Single Sign On to ACM Applications	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Single Sign On to MFP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
APPLICATION COMMUNICATION MODULE (ACM) MX-AMX2	Standard (B402SC)	Option	Standard	Option	Standard	Standard	Standard	Standard	Option
Scan API	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scan Image Preview	-	-	-	-	Yes	Yes	-	Yes	Yes
Print API	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Copy API, Fax API, Document Filing API	-	-	-	Yes	Yes	Yes	-	Yes	Yes
Copy/Fax/Doc Filing Image Preview	-	-	-	-	Yes	Yes	-	Yes	Yes
Access Card Support	-	-	-	Yes	Yes	Yes	-	Yes	Yes
EXTERNAL ACCOUNT MODULE (EAM) MX-AMX3	Standard (B402SC)	Option	Option	Option	Standard	Standard	Standard	Standard	Option
Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Track Total Pages for Copy, Print, Scan and Fax Jobs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Track Pages by Page Size and Color for all Jobs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Limit Number of Pages Per User	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Offline Mode	-	-	-	Yes	Yes	Yes	-	Yes	Yes
Access Card Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
APPLICATION COMPATIBILITY									
Cloud Portal Office Connector	-	-	-	Yes	Yes	Yes	-	Yes	Yes
AIP Connect	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kayleigh Job Accounting Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Certain features and functions may require options.

Sharp OSA Technology and Application Compatibility (**color**)

	MX-C301W	MX-C312/ C402SC	MX-2615N/ 3115N	MX-2640N/ 3140N/3640N	MX-3050N/ 3550N/4050N	MX-3070N/ 3570N/4070N	MX-4140N/ 4141N/5140N/ 5141N	MX-4110N/ 4111N/5110N/ 5111N	MX-6240N/ 7040N	MX-6500N/ 7500N (without Fiery Option)
GENERAL MFP FEATURES/FUNCTIONS										
Speed	30 ppm	31 ppm	26/31ppm	26/31/36 ppm	30/35/40 ppm	30/35/40 ppm	41/41/51/51 ppm	41/41/51/51 ppm	62/70 ppm	65/75 ppm
LCD Display – Touchscreen Color	7.0"	8.5"	7.0"	10.1"	10.1"	10.1"	10.1"	10.1"	10.1"	15.4"
Screen Formats	Wide-VGA	W-VGA	Wide-VGA	Wide-SVGA	Wide-SVGA	Wide-SVGA	Wide-SVGA	Wide-SVGA	Wide-SVGA	Wide-XGA
Latest Sharp OSA Platform Version	V4.5 Lite	V3.5	V4.5 Lite	V4.5	V5	V5	V4.5	V4.0	V4.5	V4.5
SHARP OSA TECHNOLOGY SUPPORT										
GENERAL FEATURES FOR SHARP OSA APPLICATIONS (ACM OR ECM)										
Custom User Interface - HTML Browser-based	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Custom User Interface - WebKit Browser-based	-	-	-	-	Yes	Yes	-	-	-	-
Custom User Interface - Forms-based	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes
Sharp OSA Trial Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended SDK (ACM)	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended SDK (EAM)	Yes	-	Yes	Yes	Yes	Yes	Yes	-	-	Yes
Single Sign On to ACM Applications / On to MFP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
APPLICATION COMMUNICATION MODULE (ACM) MX-AMX2	Standard	Standard (C402SC)	Option	Standard	Option	Standard	Standard	Std on MX-5111N	Standard	Standard
Scan API	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scan Image Preview	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Print API	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Copy API, Fax API, Document Filing API	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Except fax)
OCR API	-	-	-	-	-	Yes	-	-	-	-
Access to: Microsoft Office File Direct Printing / Serverless Print Release / Cloud Connect (Google Drive, OneDrive, SharePoint Online)	-	-	-	-	Yes	Yes	-	-	-	-
Copy/Fax/Doc Filing Image Preview	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Except fax)
Access Card Support	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL ACCOUNT MODULE (EAM) MX-AMX3	Standard	Standard (C402SC)	Option	Standard	Option	Standard	Standard	Option	Option	Standard
Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Track Total Pages for Copy, Print, Scan and Fax Jobs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Except fax)
Track Pages by Page Size and Color for all Jobs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Control / Limit Number of Pages Per User	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Offline Mode	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Access Card Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Override Login	-	-	-	-	Yes	Yes	-	-	-	-
APPLICATION COMPATIBILITY										
Cloud Portal Office Connector	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AIP Connect	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kayleigh Job Accounting Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Certain features and functions may require options.

NOTES AND PROVISIONS

1. The number of connectable mobile devices depends on the host OS and the accompanying Windows End-User License Agreement: Windows 7: Max. 20; Windows 8/8.1, Windows 10: Max. 50. OS requirements (as of November 2015): Host: Windows 7, Windows 8/8.1, Windows 10; Client: Windows 7, Windows 8/8.1, Windows 10, OS X v10.7–10.10, Android 2.3–5.0, iOS 6.0 - 8.0. Connecting 26 or more mobile devices requires at least two LAN access points.

2. Kmetz, Keith, "Mobile Devices and Print/Scan/Document Opportunities," 2015.

3. Available on select MFPs, please refer to the device compatibility page to view supported MFP models.

4. The Cloud Connect feature, scan file conversion to Microsoft Office files and searchable PDFs are available on select MFPs. Optional direct print extension kit may be required to print Microsoft Office files. Please refer to the device compatibility page to view supported MFP models.

5. Cloud Portal Office v2.0 and later.

6. "Retire Device" feature is available directly through MobileIron, a third party solution provider. Any reference in this document to MobileIron and its services is for informational purposes only. Sharp does not make any warranty regarding MobileIron's products or services. To enable the MobileIron "Retire Device" service, your company must be a MobileIron customer and the CPO app must have been deployed to the user as a MobileIron managed app. When a mobile device is compromised or an end user separates from the company, a "Retire Device" event is sent to the mobile device by the MobileIron administrator. For more details and subscription information please contact Kate Dietrich of MobileIron at Phone: 650-605-7044. Email: *kdietrich@mobileiron.com*

7. Encryption level and security features vary per model. Please see the Security Compatibility Charts for more details.

8. Based on security features of the MX-3070N/3570N/4070N.

9. Data Security Kit (DSK) feature.

10. Please refer to the Sharp OSA compatibility page to view supported MFP models.

11. Visit sharpusa.com/partners for the most recent product version validated and the list of supported MFPs.

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