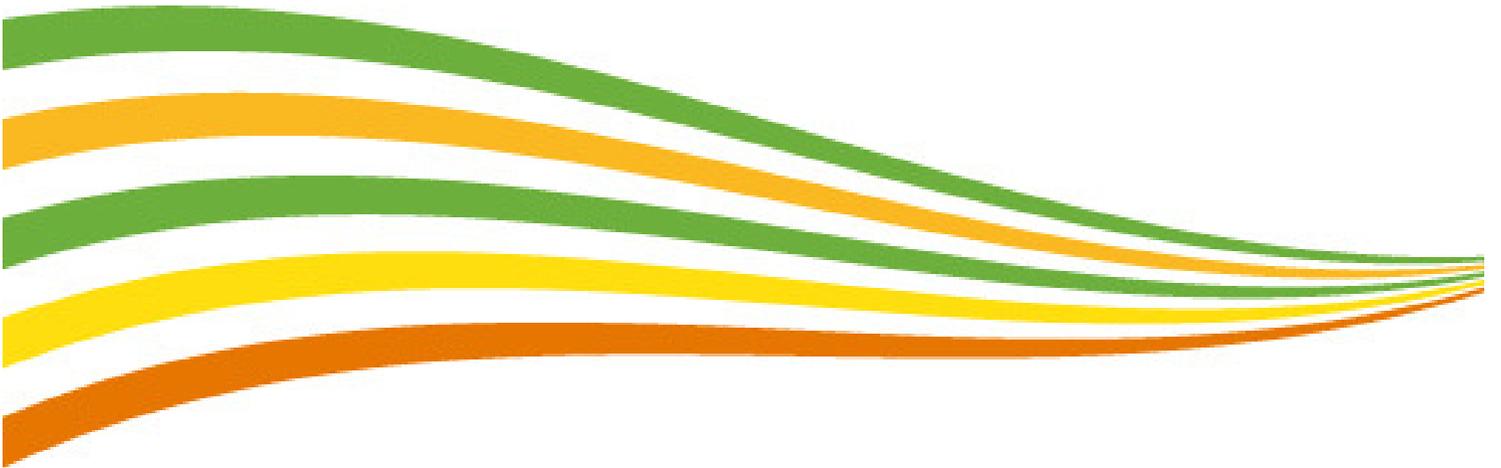


Xerox[®] ConnectKey[®] 1.5 Technology

White Paper



Executive Summary

Today's workforce expects technology to support them any way they do business: via their laptops and tablets, in the cloud, from home, on the road or in the office. According to a recent IDC study¹, from 2013 to 2020, 90% of IT industry growth will be driven by what they call the '3rd Platform technologies such as mobile, cloud, social business and big data/analytics. As a result, open source software/platforms will play a pivotal role and gain greater commercial adoption.

In addition, from an office perspective, the most significant trend is the continued secular decline in print. Capturing the document on the front end and managing the document – digital workflow – is critical. Managed Print Services are still growing and continues to drive down to smaller businesses.

Xerox is focused on these opportunities and our open architecture allows for building a network of strategic partners to further strengthen our differentiated value propositions. Xerox has created Xerox® ConnectKey® 1.5 Technology to provide this advantage with new higher standards of security, greater collaboration through digital workflows and printing from mobile devices, and extending our devices commonality in how they are setup and used.

This white paper is intended to provide a technology overview to introduce the ConnectKey software and solutions.

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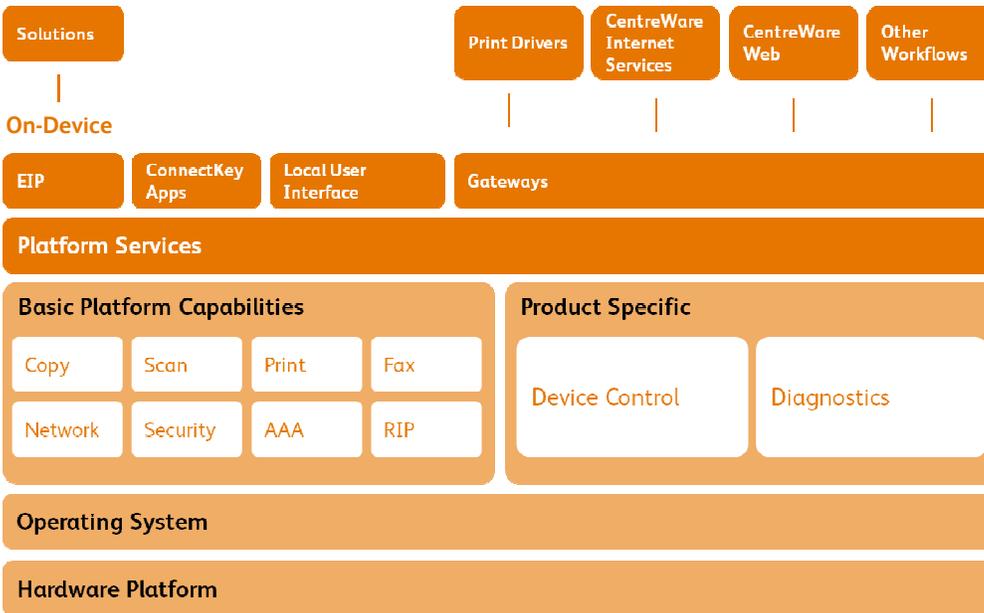
¹IDC Predictions 2013: Big Data 8 January 2013

Xerox® ConnectKey® Technology Architecture

Xerox® ConnectKey® Technology is an operating system and set of software solutions platform offered on many of our A3 and a few of our A4 Xerox® multifunction printers (MFPs). This was originally announced in February of 2013. It was designed for one purpose: to simplify the way work gets done. ConnectKey offers flexibility, simplicity and security – all of which allows our customers to focus more on what matters most: their real business. In May of 2014, Xerox updated ConnectKey with a free upgrade that provided new solutions and features to further enhance the offering. The ConnectKey portfolio was expanded on September 9th with the addition of a 70 ppm color MFP, and two A4 MFP laser devices.

Xerox® devices built on ConnectKey Technology can do more than print, scan, fax and copy because their functionality goes beyond the hardware. It is a multi-layer ecosystem that integrates the hardware platform and operating system with the controller platform. These layers then connect out to off device solutions via Xerox Extensible Interface Platform®, Partner Workflows, and other Xerox® interfaces to add further functionality. This functionality is presented to the user via the common user interface that allows anyone in the workforce to easily connect into their company's business processes. This allows you to print from just about any device from anywhere. Documents can be scanned directly to cloud services like Google Drive™, Evernote® and Office 365 for storage and collaboration – right from the MFP touch screen.

Off-Device



What makes ConnectKey different from anything else out there?

ConnectKey offers three things that are different from our competition. The ConnectKey architecture has an open Application Programming Interface (API) system through our Xerox Extensible Interface Platform. This is unlike most of our competitors who are trying to build in vertical integrated solutions. With this, sales channel partners, system integrators and resellers can develop applications and embed them on the MFP.

Second, it's been designed to be very simple, to lessen the complexity for our customers. Usability is not an afterthought; it is consistent across the board. You learn one product; you learn them all.

And third, Xerox has forged alliances and partnerships with industry leaders such as McAfee® and Cisco® to bring powerful new capabilities to market.

Xerox® ConnectKey® enables our services led technology driven strategy.

ConnectKey strengthens our ability to provide end-to-end solutions that address our customers' business issues. With the consistent ecosystem that is now available across the majority of our office portfolio and solutions, ConnectKey provides the building blocks to support improved Services. Authentication, authorization, remote capabilities, ease of integration, single touch scanning workflow – ConnectKey delivers on all fronts.

Services is more than cost reduction for the customer, it is about getting the business outcomes desired. Xerox® devices built on ConnectKey Technology – with their powerful scanning capabilities, cloud/mobile capabilities, and help in the transformation for better work document flows. The technology is an enabler and we put a services wrapper to bring these to market. Security is a big part of managed services and with ConnectKey best-in-industry security that prevents data intrusion and recognizes the Xerox® MFP as a valid endpoint in the network (made possible by strategic partnerships with McAfee and Cisco); this provides peace of mind to IT and to businesses. With technology integrated with services, we achieve the SLA the customer desires.

ConnectKey is a technology platform that will drive services and further strength Xerox® Managed Print Services (MPS). For fleet management and deployment, we can clone almost all ConnectKey features and share them across devices within the same family. We have augmented support management with a next generation remote management console and remote capabilities. In addition, when you connect the devices, they can report information back to Xerox, connect to back offices, get meter reads, and automatic supplies replenishments.

This architecture integrates with the Managed Print Services (MPS) tool set, and within the customer environment, which provides the foundation for business process integration. The open platform is ready to connect to the cloud, mobile services, and connect to anything with our alliance partners.

Xerox Extensible Interface Platform®

The Genesis of Xerox Extensible Interface Platform

Xerox was the first MFP vendor to apply the vision and terminology of so-called “Web 2.0” technologies and a related Service-Oriented Architecture (SOA) approach to the multifunction device market. Web 2.0 refers to an evolving collection of second-generation, Internet-based services that help people collaborate and share information online. Similarly, SOA provides a means for making IT systems easier to share, reconfigure and integrate. Xerox speaks of Xerox Extensible Interface Platform as relying on the network as the fundamental platform for MFP services; delivering a rich, interactive, browser-based user experience on the MFP device; and fostering a participative community of developers that encompasses ISVs, channel participants and even customers.

Our Xerox Extensible Interface Platform provides the necessary APIs and core platform to extend and connect MFPs. Based on a set of core web services, a customizable presentation layer for the UI, and an ever-expanding set of APIs, the capabilities in the MFP are unlocked to allow developers maximum flexibility in building anything from a simple one screen application, to a full document related workflow.

Use of web services allows developers to create applications using any development platform. Whether you are a java programmer, Windows C programmer, php, or .NET, you can easily create a wide range of applications with Xerox Extensible Interface Platform. The extensive SDK and toolkit also provides many samples, working applications and expert support for software developers of all skill levels. The industry leading developer program includes access to Xerox engineers, the Virtual Integration lab and validation processes to ensure the ISV customers will always receive a robust application.

What's New with Xerox Extensible Interface Platform®

With the launch of our Xerox® ConnectKey® Technology, new APIs were added in Xerox Extensible Interface Platform 2.5, which provided access to email services, enhanced copy customization, new interfaces for cost control and expansion of cloud compatible API for both Scan and Print. With the growing need to securely tie all manner of devices to cloud content, the new APIs provided both simplicity and security.

Building on the long-standing drive for customer simplicity, Xerox Extensible Interface Platform 2.5 also introduced the ability to install secure, signed apps on the MFP. This enhancement allowed serverless apps, fully self-contained on the MFP as another way to add value for customers. We will discuss this more in the Productivity section. Therefore, with Server Applications, Serverless apps, Cloud connectivity and a world-class ISV ecosystem, Xerox customers can unlock the full potential of ConnectKey Technology.

The ConnectKey 1.5 software upgrades devices to Xerox Extensible Interface Platform 3.0. This adds WebKit browser support to improve partner development experience and improve the user experience. The WebKit provides:

- Robust and fast browser
- Better coherence to industry standards
- Compatibility with modern libraries such as jQuery
- Supports standard versions of underlying WWW technologies including support for AJAX
- Ability to select HTML5 capabilities such as Canvas, Local Storage

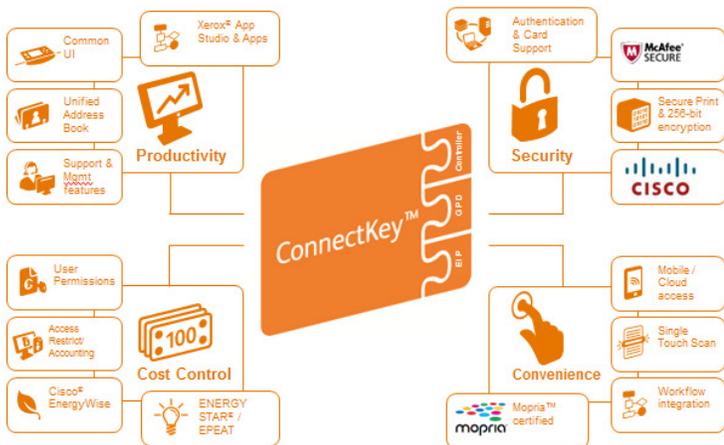
Xerox Extensible Interface Platform 3.0 also extends device configuration through Xerox Extensible Interface Platform solutions. The Xerox Extensible Interface Platform 3.0 SDK allows for:

- Enhanced device configuration: solution partners now have the ability to access SNMP from within the Xerox Extensible Interface Platform browser
- Cloud Scan: you can now scan to cloud repositories using the WebDav protocol
- Job management: the Job Management API can now work with Secure Print jobs

Xerox® ConnectKey® 1.5 Technology Highlights

The ConnectKey value proposition revolves around the four planks of productivity, security, cost control and convenience. While ConnectKey offers many more features than what is discussed in this white paper, the following section will present some of the highlights.

ConnectKey® 1.5 Technology Ecosystem



Productivity

ConnectKey Technology empowers you to work faster and collaborate better. It is built so that whether you are a skilled administrator managing hundreds of devices, or one person managing a single device, you have the tools anyone can use to implement new workflow processes or other tasks.

Next Generation Support System

Xerox gives you onboard tools and functionalities to help you address potential issues, enabling multifunction printers built on ConnectKey to stay more productive, longer. The following features are a few of the highlights:

Common User Interface

With Xerox® devices built on ConnectKey Technology, Xerox introduced a new common user interface (UI). The user interface provided a clear and simple presentation of content that is consistent from device to device giving the users a sense of familiarity, comfort, and confidence. The common UI enables simplified user training with less mistakes and a faster path to proficiency and helps users get their work done quickly and efficiently. This consistency does not come at the cost of flexibility as the user experience can be tailored to fit the needs of your business by allowing you to easily add other ConnectKey services, and you can move icons on the User Interface around or hide them as you need them for greater customization.

Unified Address Book

Xerox has included as standard address book architecture in its devices built on ConnectKey Technology to provide a simple, efficient experience for adding, finding and managing contacts. ConnectKey offers a universal address book across services. In addition to email and ifax, address book has expanded support to include Embedded Fax as well as the new Scan To service. All, within one common, universal address book. Populating address books is simple: add individually or import up to 5000 contacts, either at the device or from Xerox® CentreWare® Internet Services. Finding and editing contacts at the device is simple: contacts can now be marked as Favorites, elevating the most critical contacts ensuring they are always within easy

reach. Using Favorites, it is now possible to start an email job with only three steps. Simply load the document, select the contact, and press Start. And managing contacts is simple. The address books support cloning, making it simple and efficient to update and entire fleet with the same contacts, profiles and system settings.

Remote Control Panel

Xerox has a built in remote access and control feature, which is standard on all Xerox® devices built on Xerox® ConnectKey Technology. This feature provides the capability to remotely view and operate the MFP's user interface. The feature offers 3 levels of user access and functionality including the General User, System Administrator and Authorized Service; each with the appropriate setup and authentication controls. The feature is conveniently integrated within CentreWare Internet Services providing the System Administrator with remote access to every device feature and setting. In addition, when an authorized service rep is properly authenticated, they have access to the device diagnostics enabling unparalleled support for remote troubleshooting and repair. The remote session can be operated in dual control mode or remote-only mode. In dual mode both the local and remote user can operate the UI which is very useful for collaboration, help desk support, and training. In situations where the remote user needs sole control of the device such as certain advanced admin or service functions, the session can be connected where the local UI keys are locked out.

Remote access was designed with security as a primary objective. Only the administrator can enable/disable the feature or set user restrictions. The remote session seamlessly integrates to the device's authentication and access models, user permissions, and accounting. The session connection is automatically encrypted while text and keystrokes are masked when passwords are entered ensuring user and device information is protected. Users access the feature with their Internet browsers which eliminates the need to load third party or custom software applications on their workstation. User interface graphics and messages alert the local users whenever a remote session is created or being used. Refer to the Remote Control Panel White Paper for additional details.

Print Drivers

Xerox Corporation developed a print driver platform that significantly reduces costs and increases the efficiencies of enterprise printer management and support. This platform has changed the way that IT administrators view and manage enterprise print drivers. It was built on industry-standard UNIDRV and PostScript core driver components from Microsoft. The Xerox® Driver for Windows Platform supports our devices built on ConnectKey Technology and all the Xerox® Office and Production products. It provides a common driver implementation for Microsoft Windows operating systems, including 32- and 64-bit versions of Windows 8, Windows XP SP3, Windows Server 2003 SP2, Windows Vista, Windows Server 2008, Windows 7, and Windows Server 2008 R2.

The core driver platform helps make you more productive by streamlining the new user interface and ensuring a consistent experience across our product lines. This consistency has greatly simplified print services delivery and reduced end-user training and support requirements, and lowered the cost of IT print services as a result.

Customers will experience with our devices built on ConnectKey Technology a simplified desktop scanning workflow with an all new TWAIN driver. With any TWAIN compliant application, users can directly control the ConnectKey-enabled MFP remotely to import documents. This workflow achieves the simplicity of a personal scanner with the power and capabilities of Xerox® MFP.

Online Support on the Front Panel and Built into the Print Driver

Online Support is available from the Print Driver and the User Interface, where they gathers information stored in the printer, examines the information, diagnoses the issue and collects relevant solutions from the Xerox Knowledge Base. From there it either returns a solution specific to the problem or walks a user through a troubleshooting tree. So users are now able to troubleshoot printer issues directly from either location without having to walk to the device.

Design Your App Without Coding

Xerox® ConnectKey® Apps and Xerox® App Studio

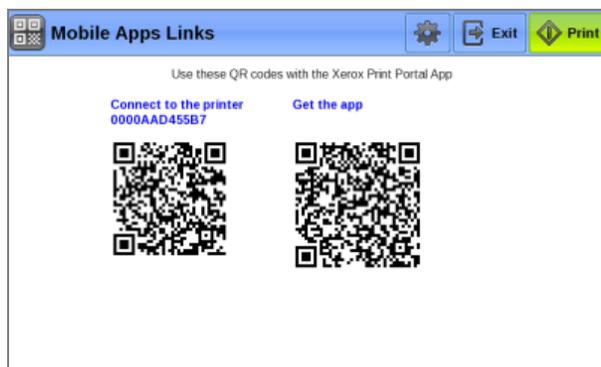
To help simplify your work, we've created a new category of solutions: Xerox® ConnectKey Apps. Like traditional software solutions, ConnectKey Apps extend the capabilities of your multifunction printer. They help you make the most of your hardware investment.

But unlike traditional solutions, ConnectKey Apps do not require a dedicated server, PC or IT resource. Instead, ConnectKey Apps are lightweight, serverless solutions you can download to your MFP built on ConnectKey Technology via USB or Xerox® CentreWare® Internet Services.

- Because there is no server needed, these apps are great for small and medium businesses. Even for apps that do access internet, locally hosted pages will load fast enabling a proper level of feedback to user (wait screen, etc).
- They can be set as the default walkup app, like any other Xerox Extensible Interface Platform® application, to allow a quick customization of the user interface screen.
- All existing Xerox Extensible Interface Platform services can be used from within the apps.
- They can be used on non-network connected devices as well as connected.
- Xerox provides four ConnectKey Demo Apps are that are available free of charge.

Xerox® ConnectKey Apps Examples:

- **Quick Scan to Email**
Create a personalized, one-touch email destination for scanned documents.
- **Mobile Printing QR Codes**
Simplify and streamline your Mobile Print/Mobile Print Cloud app experience with QR codes. Here's how it works:
 - You can scan a QR code to automatically take you to the correct app store so you can download the Xerox® Print Portal App.
 - Your Mobile Print/Cloud printer will auto-select using your app and the QR code.



- **Quick Print App**
Gain easy, one-touch printing access to useful files from Xerox, such as calendars, posters and brochures.

- **Info App**

Find different ways to share information and communicate with your users via this app.



- **Xerox® App Studio**

Xerox offers our Channel partners and sales force a tool for “do it yourself” apps. App Studio enables the configuration of custom applications to meet customer needs. This provides a way for our partners to easily customize the user interface. The tool is designed to be simple to use and easy to deploy:

- It offers a simple visual customization environment.
- It requires no server, no agent software.
- No programming skills needed.
- Create the look and message you want to deliver.
- Easy to deploy.
- Simply create your customized app & download.
- Deploy to one device built on Xerox® ConnectKey® Technology or many devices.
- USB or browser based deployment.

Here are a few examples of Apps that can be created through App Studio:

- Information Apps, available as a button on the MFP’s User Interface, can help to communicate to users or customers’ business critical information. They can share promotions, business updates, marketing campaigns and more. Make it the default ‘Walk-Up’ screen ensuring anyone wanting to use the MFP built on ConnectKey Technology sees it before they do any operation at the device.
- There are many different types of Scan Apps that allow for daily tasks to be reduced to fewer steps. They are available at the top level of the User Interface feature screen so users can see key individual destinations separated from other non-critical workflows. You can even customize the Scan App to show only choices you want users to make, such as 1 or 2 sided scans, but all other defaults are pre-defined and unchangeable. It can even include Custom Text or Images to ensure users see everything that is required before they scan and send documents.

Security

Xerox® ConnectKey® Technology provides the most comprehensive range of advanced features and technologies to help ensure your company's confidential information stays secure.

McAfee®

Xerox has always been the leader in bringing security to printers, copiers and multifunction devices. Consistent with our continued emphasis on security, Xerox is partnering with McAfee to stay in front of the increasing threats to embedded systems.

With the embedded McAfee technology on our MFPs built on ConnectKey Technology, customers of all sizes – from small and medium businesses with limited IT resources to large enterprises – can have peace of mind knowing that their MFPs are secure out of the box against zero-day attacks.

Xerox is taking the MFP embedded device security to the next level by including a McAfee agent into the new models of every MFP sold. These agents will continuously guard the device against any type of intrusion and promptly send out alerts of any unauthorized action. While trusted signed upgrades and patches are allowed, white listing would not allow new malwares to exploit vulnerabilities. White listing technology locks down critical systems and prevents unauthorized change events.

- **McAfee Embedded Control – Enhanced Security**

Xerox® devices built on ConnectKey Technology include McAfee Embedded Control integration, resulting in the industry's first lineup of multifunction printers that protect themselves from potential outside threats. McAfee's whitelisting technology detects unauthorized attempts to read, write or add to protected files and directories and sends alerts if they occur. Also, seamless integration with Xerox® CentreWare® Web, the Xerox® MPS toolset and McAfee ePolicy Orchestrator (ePO) allows for monitoring from the preferred console.

- **McAfee Embedded Control – Integrity Control**

Integrity Control builds on the Enhanced Security capabilities and adds prevention of new files from being executed from any location by untrusted means. Only approved software is allowed to run, which prevents both general and targeted attacks. Useful especially for enterprise-wide security implementations, Xerox and McAfee offer whitelisting technology that ensures only good executable code can run on protected systems. Whitelisting ensures the only function those devices are doing are the services you want to deliver and narrows the scope of many embedded systems to ensure that an attacker can't install malicious code. This same technology is used to protect servers, ATMs, point of sale terminals and embedded devices such as mobile devices.

Cisco®

Cisco TrustSec ISE enhances the security of the environment where our Xerox® devices operate: your network. Xerox and Cisco engineers worked together to incorporate over 100 Xerox® devices into ISE. So when you buy ISE from Cisco you do not have to configure it to work with Xerox® products and validate that all the device settings were entered correctly; we have done all of that work for you ahead of time. ISE automatically detects Xerox® devices in your network and allows you to immediately include these Xerox® devices in your security policies with much less effort than what is required for adding non-Xerox® printing devices.

Other Security Features

In addition to the newly introduced security capabilities, our MFPs built on ConnectKey Technology support secure emails of scanned documents using SMTP over SSL V 3.0 as well as continues to offer hard disk encryption, on-demand and scheduled image overwrite, FIPS 140-2 compliance, and secure protocols SSL V 3.0, SNMP v3, IPsec, etc. ConnectKey 1.5 Technology brings support for additional card reader support.

Convenience

Xerox® MFPs built on Xerox® ConnectKey® Technology offer mobile printing and scanning solutions that integrate fully with cloud-based technologies and mobile devices. You'll benefit from enhanced convenience, increased productivity and a more cost-effective infrastructure.

Mobile Work Ready

- **Mobile Print Solution / Mobile Print Cloud**

Our mobile solutions help you be productive anywhere their business takes them. We realize that the lines between when, where and how work is done are blurring – the challenge is to stay ahead of the game.

	 Xerox® Mobile Print Cloud	 Xerox® Mobile Print Solution
Simple	<ul style="list-style-type: none"> • Print from any email-enabled device to nearly any networked printer (Xerox or non-Xerox) • iOS or Android app with GPS locator and job attributes, previews 	<ul style="list-style-type: none"> • Print from any email-enabled device to all Xerox® EIP-enabled printers/MFPs. Print to non-Xerox devices via iOS, Android apps. • Easy to use mobile app lets you open, preview and print any document from your device.
Convenience	<ul style="list-style-type: none"> • Locate printers with GPS locator • Allow guests and visitors easy access to printers/MFPs • No extra printer drivers or infrastructure to manage • Get full formatting and true Microsoft® Office® rendering 	<ul style="list-style-type: none"> • Allow guests and visitors easy access to printers/MFPs • No extra printer drivers or infrastructure to manage • Get full formatting and true Microsoft® Office® rendering and job attribute options
Secure	<ul style="list-style-type: none"> • Preview a document on your mobile device and control the release to the selected printer. • Provides security options at user and admin level 	<ul style="list-style-type: none"> • Innovative release codes (PIN) at the device ensures documents are in the right hands • Uses your server and Xerox® software for a private, on-site deployment and full control

Administrators and Information Technology professionals continue to assess how to enable mobile workers and gain greater productivity.

- Xerox offers flexible mobile print support – Robust solutions that put you ahead of the game and support “Bring Your Own Device” (BYOD) trends and initiatives.
- Other solutions are complex to administer, have limited support or are not flexible enough to support your entire organization.
- Xerox® Mobile Print puts you ahead of the curve, so you can quickly bring innovative mobile print solutions to your team.
- Print from almost any mobile device to most networked printers and MFPs.
- Support for the most popular formats – including true Microsoft® Office® files.
- You decide print options such as 2-sided or staple.
- Choose to submit print jobs via the app or email.
- **Wireless**
Xerox® MFPs built on ConnectKey Technology can also be connected to wireless networks by using an optional Wi-Fi certified dongle that plugs into the MFP's USB port and supports 802.11 b/g/n connectivity.
- **Apple® AirPrint™**
Apple AirPrint capability means users can walk up to any device built on ConnectKey Technology and print any document from Apple iOS® devices, without the need for drivers or document re-purposing tools. Discovery on the network, wired or wireless, is done with Apple Bonjour® protocol, so any device is easy to find, and once selected, you just press print.

- **Mopria™ Certified**

Xerox® MFPs built on Xerox® ConnectKey Technology are Mopria certified. Mopria certification ensures you can print wirelessly from your Mopria supported smart phone, tablet and other mobile devices instantly and easily.

Simple Scan Solutions

- **Xerox® ConnectKey® Share to Cloud**

Xerox® MFPs built on ConnectKey Technology and Share to Cloud provide powerful document scanning capabilities with all the benefits of the cloud. This brings simple, secure and anytime access to popular cloud services and email.

ConnectKey Share to Cloud delivers all of the benefits of cloud computing to Xerox® MFPs built on ConnectKey Technology in the same way that apps leverage the cloud on mobile devices. Employees use the user interface on each of these MFPs to scan their documents, and the Share to Cloud solution converts the files and distributes them to the selected cloud service. Not only does this enable knowledge workers to transfer information once trapped in paper to editable digital content, but it also provides on-the-go access to employees' most important files and documents anytime, anywhere, including access to content from mobile devices. Share to Cloud is a serverless MFP application with no on-premise software or hardware required.

- **Share Anywhere – Connectivity to the Cloud**

Enables employees to scan paper documents directly to email or public cloud services. It connects to the most popular cloud services, including: Google Docs™, Google Drive™, Evernote®, Microsoft® SharePoint® Online, Dropbox™, Salesforce.com, Office 365 and Email (via SMTP). Gives employees “anytime-anywhere” access to their most important documents using mobile devices.

- Document Conversion

- Converts scanned documents into fully editable word processing documents, spreadsheets and searchable PDF documents.
- Provides automated file splitting and quota notifications to ensure that files reach their desired destination.
- Performs OCR in the cloud, eliminating the need to install additional server technology.

- Reduced Administration and IT Burden

- There is no software to install, no server to maintain, and no software agents to load.
- Intuitive user interface at the control panel reduces the need for user training.

- Benchmark ConnectKey® Security

- Leverages user credentials from the Xerox® device login, whether using network credentials, PIN codes or ID cards.
- Associates the MFP login credentials with previously entered user cloud service credentials.
- Encrypts all data communications between the MFP and cloud services using SSL V 3.0 technology to offer complete security and peace of mind.



Supports popular cloud repositories.



Securely log in on the MFP directly to your preferred cloud repository.



Scan direct from the MFP to Word, Excel, PDF, image or plain text.

- **Single Touch Scan**

This core web based feature allows the creation of 10 custom scan services utilizing the power of the Workflow Scanning templates. The service creation tool provides a method to elevate a web-based template into the Services Home screen within the touch UI allowing for quick and efficient access to specific scan solutions for repetitive tasks. In addition to efficiency, the creation tool provides the ability to brand the service as your own. Select from eight different color themes, control the name of the service, and even import a custom logo. Building custom services for repetitive tasks can have many different security demands. From restricting user access to the service to controlling what features the walkup user can modify on a job-by-job bases. To address these security demands, the Single-Touch solution seamlessly integrates into the device's authentication and user permission models preventing unauthorized accessed. In addition to security, all scans can be tracked using any one of the Xerox® accounting solutions. And let's not forget about device management. All custom Single-Touch Services can be cloned providing a consistent scan solution for business critical workflows across your entire company.

- **Xerox® ConnectKey® for SharePoint®**

Xerox® ConnectKey for SharePoint offers the flexibility to directly route paper documents to existing SharePoint libraries and Windows® folders. With one easy process you can create searchable PDF documents with meaningful file names that are easy to find when you need to. To capture your documents with ConnectKey for SharePoint, simply walk up to an enabled MFP, select the desired workflow, add any required indexing data and press scan. That's it—your documents are now on their way to exactly where you want them to be stored. No need to rename and manually route. This allows your MFP, ConnectKey enabled or not, to offer the easiest way to convert your documents into intelligent structured data with the peace of mind knowing that you can always find critical information when you need it.

- **Xerox® ConnectKey® for DocuShare®**

Xerox® ConnectKey for DocuShare is a highly productive, one-step scanning solution that is easy to set up and use, helping users seamlessly transition from paper to digital workflows. Some key features include the ability for users can create text-searchable PDF documents, perform one-button capture to Xerox® DocuShare® collections and Windows folders, and easily deploy scan buttons and scan workflows to Xerox® MFP touch screens, in a convenient hierarchy (for example, a Finance button with A/P and Purchase Order workflows). And it uses the Xerox® MFPs built-in security and encryption, and corporate LDAP/Microsoft Active Directory for end-to-end content security.

Cost Control

With Xerox, you can gain an important competitive advantage with innovative tools that help save time, control costs, simplify the way you manage printing in your office, and get a significant return on your investment.

User Controls without Special Software

- **User Permissions**

While the benefits of color and two-sided printing are widely known, it is also important to ensure that installations ensure responsible use of these and other print methods. User Permissions is a standard, embedded capability with the Xerox® devices built on Xerox® ConnectKey Technology. It provides the ability for administrators to define roles that allow or restrict the use of color, two-sided printing, the type of print (i.e. Secure Print), the tray(s) used, the time of day and even the Windows application used. And with ConnectKey Technology, the roles now can be device resident or shared across devices using Active Directory groups. As an example, a site may like to restrict the use of color to identified users only (using their PCs with print drivers) thus preventing unauthorized personnel from printing in color at the device. Xerox® print drivers reflect the permissions so the end user will be offered only the allowed print features.

Designed for Integration into Any Customer Environment

- **Power Management Technology**

Xerox has incorporated leading edge power management technology in its MFPs built on ConnectKey Technology by integrating a new standard Power Management interface (PWG Imaging System Power MIB v1.0). This gives IT managers the ability to minimize the energy consumption of these MFPs, thereby reducing customers' energy costs and greenhouse gas emissions. Additionally, Cisco and Xerox have teamed up to enable the MFP to be part of the Cisco EnergyWise ecosystem, allowing a single view into the energy use of all IT equipment at the customer's sites. Energy management solutions can take advantage of the ConnectKey Power Management features through the use of the Power MIB in several ways, for example by programming wake/sleep policies, varying sleep timer values based on hours of activity and usage patterns, and by reading direct power and energy usage statistics directly from the MFP built on ConnectKey Technology.

- **Card-based Authentication**

The ConnectKey portfolio extends support for authentication cards to include Smart Cards, magnetic strip cards, proximity cards (both ISO-14443 and ISO-15693), and one- and two-dimensional visual bar codes. With the optional Smart Card Kit, support is now available for Common Access Card (CAC), Personal Identification Verification (PIV), Gemalto .NET, Gemalto Access Client cards. In addition, smart card user information is now available to Xerox Extensible Interface Platform®-based solutions, enabling our partners to provide services such as accounting and pull-printing with smart cards. The MFPs built on ConnectKey Technology can support readers from standard proximity card readers via the USB port, and are compatible with many of our ISV partners. In total, these MFPs support over 85 card types and over 35 card reader types.

Summary: Xerox® MFPs built on Xerox® ConnectKey® Technology, Key Controller and Solutions Capabilities – Standard and Optional

ConnectKey provides many new features that allow today's workers to have a powerful tool to help them get their work done. We have built a significant amount of features as standard into each MFP to enable customers to connect and print from anywhere. In addition, we offer multiple options to extend the uses and capabilities of the products.

Xerox can simplify a customer's workflow through tools like ConnectKey® for SharePoint® or Business Process Outsourcing integration through services from Xerox and enable large-scale savings and process automation. ConnectKey Solutions reduce waste and paper consumption, and give you time back in your day to do your job more effectively. Plus, compatibility with energy management solutions such as Cisco EnergyWise and a mix of innovative features enable reduced power consumption so you can achieve your sustainability promises. We have rounded out this amazing ecosystem by empowering today's mobile workforce to conduct business in ways that work for them, with scalable, cloud-ready and mobile solutions.

Whether you manage the devices yourself or choose a Xerox® Managed Print Service, you'll benefit from the tools ConnectKey offers to cut your costs and keep you moving forward.

Xerox® devices built on ConnectKey Technology:

- **Xerox® WorkCentre® 7970 Color Multifunction Printer**
 - Tabloid/A3 color output.
 - Print speeds as fast as 70 ppm color and black-and-white.
 - Ideal for busy departmental environments needing excellent color output.
 - Uses a wide array of finishing options, including hole punching, stapling, C/Z folding, and booklet making.
- **Xerox® WorkCentre® 7830/7835/7845/7855 Color Multifunction Printer**
 - Tabloid/A3 color output.
 - Print speeds as fast as 30 – 50 ppm (color), 30 – 55 ppm (black-and-white).
 - Ideal for easy-to-use, professional color workflows.
 - Meets office output requirements for media flexibility.
- **Xerox® WorkCentre® 5945/5955 Multifunction Printer**
 - Tabloid/A3 black-and-white output and color scanning.
 - Print speeds as fast as 45 – 55 ppm.
 - Ideal for medium sized workgroups in varied environments.
 - Uses a wide array of finishing options, including hole punching, stapling, folding and booklet making.
- **Xerox® WorkCentre® 5865/5875/5890 Multifunction Printer**
 - Tabloid/A3 black-and-white output and color scanning.
 - Print speeds as fast as 65 – 90 ppm.
 - Ideal for busy departmental environments.
 - Uses a wide array of finishing options including hole punching, stapling, folding and booklet making.

- **Xerox® ColorQube® 9302/9303 Color Multifunction Printer**
 - Tabloid/A3 color output.
 - Print speeds as fast as 45 – 55 ppm (color), 55 – 60 ppm (black-and-white).
 - Ideal for lower color run costs and total cost of ownership.
 - Solid Ink technology.
- **Xerox® WorkCentre® 7220/7225 Color Multifunction Printer**
 - Tabloid/A3 color output.
 - Print speeds as fast as 20 – 25 ppm for color and black-and-white.
 - Cost-conscious color printing.
 - Ideal for small or medium businesses looking for low entry price and small A3 multifunction printer footprint.
- **Xerox® ColorQube® 8700 Color Multifunction Printer**
 - Letter/Legal-size/A4 color output.
 - Print speeds as fast as 44 ppm for color and black-and-white.
 - Different pricing models available for lower up-front investment or lower total cost of ownership.
 - Solid Ink technology.
- **Xerox® ColorQube® 8900 Color Multifunction Printer**
 - Letter/Legal-size/A4 color output.
 - Print speeds as fast as 44 ppm for color and black-and-white.
 - Different pricing models available for lower up-front investment or lower total cost of ownership.
 - Solid Ink technology.
- **Xerox® WorkCentre® 3655 Multifunction Printer**
 - Letter/Legal-size/A4 black-and-white output.
 - Print speeds as fast as 47 ppm.
 - Offers entry point for customers wanting enterprise security and workflows.
 - Ideal for medium sized workgroups in varied letter/A4 only environments.
- **Xerox® WorkCentre® 6655 Color Multifunction Printer**
 - Letter/Legal-size/A4 color output.
 - Print speeds as fast as 36 ppm for color and black-and-white.
 - Brings enterprise features to an A4 color multifunction printer.
 - Ideal for small or medium businesses looking for low entry price and small A4 multifunction printer footprint.

Key Controller and Solutions Capabilities – Standard and Optional:

Convenience Standard	Apple® AirPrint™, Single Touch Scan, Xerox® Mobile Express Driver®, Xerox® Printback, Mopria™ Certified
Optional	ConnectKey® for SharePoint®, ConnectKey® for DocuShare®, ConnectKey® Share to Cloud, Wi-Fi Kit, Xerox® Mobile Print, Xerox® Mobile Print Cloud
Productivity Standard	Address Book Integration, Remote Control Panel, Application Defaults, Searchable PDF, Print Around, TWAIN Support, Scan to Home, Scan to Email, Scan to Mailbox, Cloning, Online Support from UI and Print Driver, Color By Words, Xerox® Global Print Driver®, Xerox® CentreWare® Web
Optional	ConnectKey® Apps, Xerox® Scan to PC Desktop® SE and Pro, Foreign Device Interface Kit, Unicode Fonts Kit
Security Standard	McAfee® Embedded, McAfee ePO Compatible, Hard Disk Image Overwrite, 256-bit Encryption (FIPS 140-2 compliant), Secure Print, Secure Fax, Secure Email, Cisco® TrustSec Identity Services Engine (ISE) integration, Network Authentication, SSL, SNMPv3, Common Criteria Certification (<i>upgrade software pending for Sept. 2014</i>)
Optional	McAfee Integrity Control, Smart Card Enablement Kit (CAC/ PIV/.NET), Xerox Secure Access Unified ID System®
Cost Control Standard	Print Policies, User Permissions, Xerox® Standard Accounting, Cisco® EnergyWise enabled by Xerox® Power MIB, Earth Smart Print Driver
Optional	Equitrac® Professional, Equitrac Office®, Equitrac Express®, YSoft® SafeQ®, Print Audit and many other solutions by Business Innovation Partners

Appendix A: Xerox® ConnectKey® User Interface Capabilities

Services Home Pathway

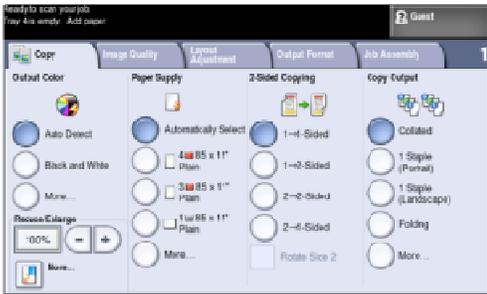


Xerox® Smart Controller 1.9



Xerox® ConnectKey® Controller

Copy Service

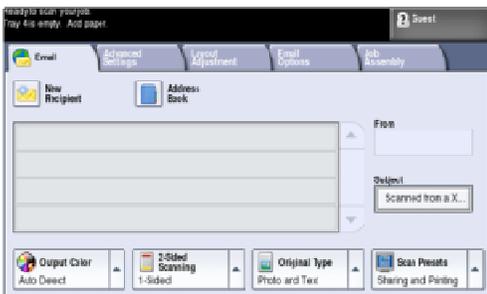


Smart Controller 1.9

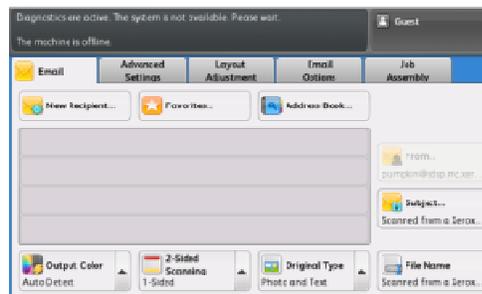


ConnectKey Controller

Email Service



Smart Controller 1.9

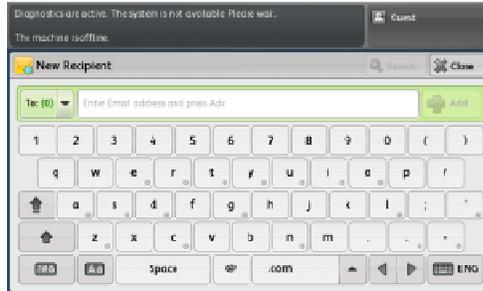


ConnectKey Controller

Keyboard



Xerox® Smart Controller 1.9

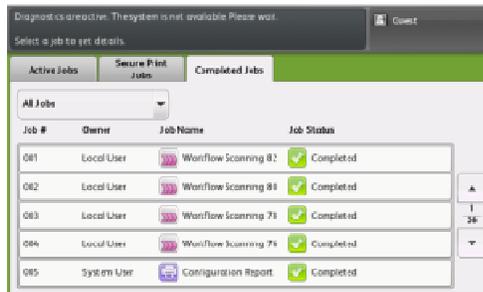


Xerox® ConnectKey® Controller

Job Status Pathway



Smart Controller 1.9



ConnectKey Controller

Machine Status Pathway



Smart Controller 1.9

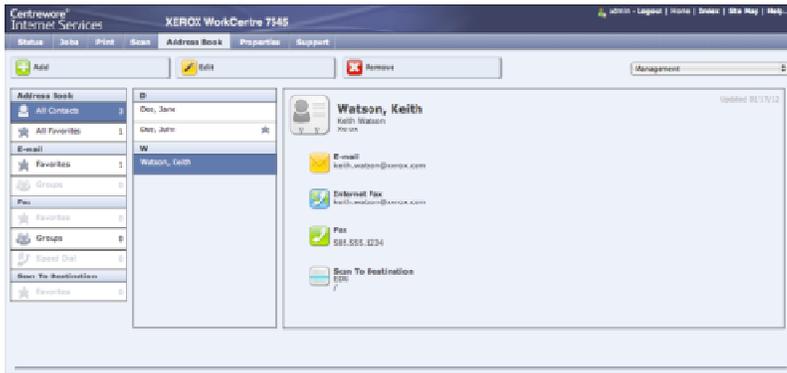
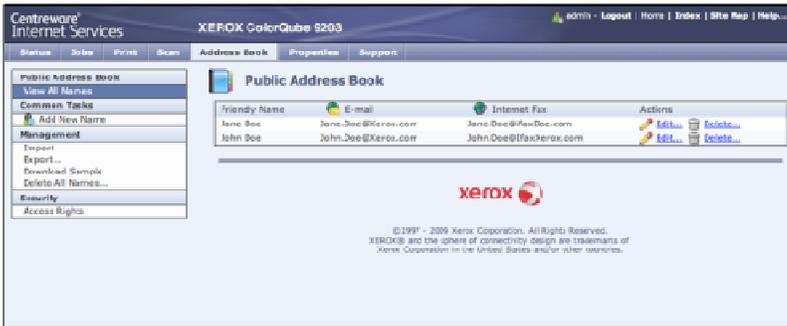


ConnectKey Controller

Xerox® CentreWare® Internet Services – Xerox® ConnectKey® Technology Administrative Screens

CentreWare Internet Services is software that allows you to display, configure, and change the current status or settings of the printer by using a web browser on a computer. With the ConnectKey software, Xerox has simplified the processes to install, configure, and manage our devices.

Address Book

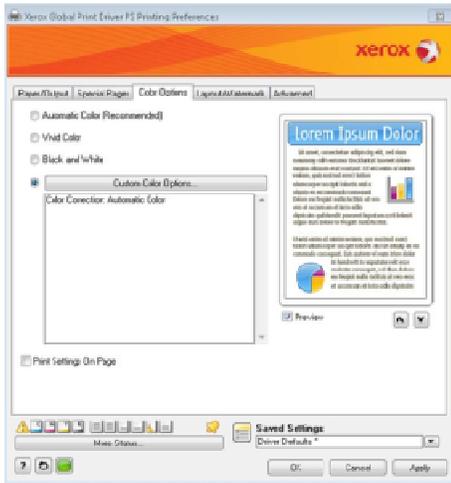


Revamped AAA CWIS pages (Authentication, Authorization, Accounting)

1) Display a new grouping at the top level of the Properties Tree to better advertise the device's authentication, authorization, and accounting configuration options.

2) Logically group the capabilities together to help communicate the relationships and dependencies between the options.

3) Logically group all options for each capability on their own page reducing visual complexity.



Color Options



Image Options

Appendix B: Xerox® ConnectKey® Technology Specifications Table

Printer Specifications	Xerox® ConnectKey® Technology
Print Specifications	
Print From USB	Yes (PDF, JPEG, TIFF, PS, XPS, PCL)
Printer Languages	Adobe PostScript 3
	TIFF
	PCL 5c emulation
	PS-PDF: v1.7
	PCL 6 emulation
	HP-GL2
	XPS
Features	Earth Friendly Drivers Feature
	Print Calibration
	Secure Print Pin and User ID
	Delay Print (specific time)
	Sample Set
	Booklet Creation
	Cover Selection
	Covers, Inserts and Exception Pages
	Store File in Folder
	Paper Selection by Attribute (Including Transparency Separators)
	N-up (16) / Multi-up
	Stapling (requires Office Finisher or High Volume Finisher) Office Finisher: 50 sheets (single, dual) High Volume Finisher: 100 sheets (single, dual, multiple)
	Hole Punch (requires Office Finisher or High Volume Finisher) North America: 3-hole or 2-hole Legal Europe: 2-hole, 4-hole, or 4-hole "Swedish"
	Booklet Fold / V Folding (requires High Volume Finisher with Booklet Maker option)
	Watermark
	Fit to New Paper Size
	Transparency Separators
	Banner Sheet Enable/Disable
	Ability to Print User ID in Margins of First Page or Each Page of Job
	Output Tray Selection

	Image Quality
	Draft Mode
	Store and Recall Driver Settings
	Reduce/Enlarge
	Mirror Image
	Margins
	Bi-Directional Status
	Two-sided Printing
	Scaling
	Overlays
	Print to Fax (requires optional Fax Kit)
	Hold All Jobs
Connectivity	Ethernet 10/100/1000Base-T
	High-speed USB 2.0 Printer Port
	Wireless Ethernet (IEEE 802.11b/g/n) (optional Xerox® adapter)
Client Operating Systems	Microsoft Windows XP 32-bit, XP 64-bit, Windows Server 2003 32-bit, Windows Server 2003 64-bit, Windows Server 2008 32-bit, Windows Server 2008 64-bit, Windows Server 2012
	Windows Vista 32-bit, Windows Vista 64-bit
	Windows 7 32-bit, Windows 7 64-bit, Windows 8 32-bit, Windows 8 64-bit, Windows 8.1 32-bit, Windows 8.1 64-bit
	Mac OS 10.5 and above
	IBM AIX 5, Unix, Itanium HP-UX 11i v3
	HP-UX 11.0, 11i v2
	Solaris 9, 10, Solaris SPARC 10
	RedHat Fedora Core 15-17, 19 x86
	RedHat Enterprise Linux 4 and 5
	SUSE 11 and 12
Network Protocols	TCP/IP: IPv4/IPv6, FTP/sFTP, HTTP/HTTPS, Internet Printing Protocol, LPR/LPD, Raw Socket Printing/Port 9100, WSD
	NetWare: Bindery and NDS IPX/SPX, NDPS/NEPS (with Server Gateway)
	AppleTalk: EtherTalk
	Microsoft Windows Networking over IP
	(All protocols not in use can be disabled)
Administrative Protocols	Bonjour, DHCP, BOOTP, SNMP, WINS, DDNS, SLP v2, HTTP, RARP, DHCP Autonet, SSL V 3.0, NTP
Fonts	PostScript 3: 173 Type 1 fonts, 2 Multiple Master fonts

	PCL: 93 scalable fonts, line printer bitmap font (including Cyrillic font support)
	Printer Drivers Environment PCL5c and PCL 6 PostScript
Print Drivers	
Drivers	Windows 2003 32 Bit
	Windows 2003 64 Bit
	Windows Vista/Vista 32 Bit
	Windows Vista/Vista 64 Bit
	Windows 7 / 2008 32 Bit
	Windows 7 / 2008 64 Bit
	Windows 8 32 Bit upon Microsoft launch
	Windows 8 64 Bit upon Microsoft launch
	(Microsoft certified)
	Macintosh OS 10.5.0 and above
	UNIX
	Xerox® Mobile Express Driver® Postscript only
	Xerox® Pull Print Driver
Xerox® Global Print Driver	
Print Submission Tools	Command prompt LPR/UNIX tool for print submission
Device Management	Management Support: SNMP Version 1, SNMP v2c and v3 trap over TCP/IP and IP MIB access (IETF-MIB II RFC 1213), Host Resources MIB RFC 2790, Printer MIB RFC 1759 v2
	Xerox® CentreWare Web 5.8
	IP Filter
	Xerox® Device Manager
	Xerox® Device Types for SAP R/3 Environment Information available at www.xeroxofficesapsolutions.com
	Xerox® SAP R/3 Intelligent Barcode Utility (Optional) Information available at www.xeroxofficesapsolutions.com
	Xerox® Barcode Pro PS Information available at www.xeroxofficesapsolutions.com
	CentreWare Internet Services – Integrated Device Web Page
	Smart eSolutions – Meter Assistant
	Smart eSolutions – Supplies Assistant
	Smart eSolutions – Maintenance Assistant
	Remote Control Panel Access
	May remotely modify power saver timeouts

	Fax and paper attributes configurable at the front panel and CWIS
Fax Specifications	
Network Fax Server Integration	Standard
Fax Send Features	One-sided, two-sided, or two-sided rotate side 2
	Phone number entry
	Add to send list (> 140 numbers maximum)
	Delay send (specific time)
	ITU (CCITT) group 3 quality/resolution superfine/600x600, fine/200x200, standard/200x100 dpi
	Original type (photo, text, or photo and text)
	Build Job
	Favorites
Fax Print Features	One- or two-sided printing
	Staple on/off
Fax (Optional)	Finisher output tray selection (top tray or main tray)
	1 line or 2 line
	ITU (CCITT) Group 3 Quality/Resolution Superfine: 600 x 600 Fine: 200 x 200 Standard: 200 x 100 dpi
Speed/Modem(s)	V.34 modem(s): 33,600 bps. Less than four seconds per page transmission time. ISDN via third-party adapter.
Speed/Compression	G3/Super G3 MH / MR / MMR / JBIG
Fax Send Features	Fax from Print Driver
	Auto Fax Transmission Reduction
Fax Receive Features	Page-by-page Job Status at the Machine
	Delay Start
	Automatic Memory Resend
	Automatic Cover Sheets
	Priority Send
	Broadcast
	Booklet Scan
	PSTN Fax
	Internet Fax – Standard
	Build Job
	Fax Contact Favorites

	LAN Fax
	One or Two-sided Printing
	Reduction at Reception to Fit Available Paper
Fax Forward	Staple and Hole Punch On/Off
	Finisher Output Tray Selection (Top Tray or Main Tray)
	Secure Fax All incoming faxes are held until released at LUI with a customer-set PIN.
	Forward to: Email and FTP or SMB Location
Fax Reports	Fax Address Book Report (includes fax contacts and groups)
	Activity Report
Fax Receive Mailboxes Auto Dialing	Pending Fax Jobs
	Options Report
	On Demand Overwrite Report
	Up to 200 Password-protected Mailboxes
	Auto Redial, Batch Send
	Transmission Confirmation
Single Line Option	Unlimited address book entries (up to 5,000 Device Address Book contacts)
	Unlimited dial groups with unlimited recipients per group (up to 5,000 Device Address Book total contacts).
Internet Fax	Standard (Fax Kit not required)
Maximum Scan Area	Ledger (A3/297 x 420 mm) on most devices
Address Directory Access	Via LDAP or Downloaded address list (comma-separated value file format)
File Formats	Send: Multi-page TIFF, Image only PDF
Resolutions	400 x 400 dpi
	300 x 300 dpi
	200 x 200 dpi
	150 x 150 dpi
	100 x 100 dpi
	72 x 72 dpi
	600 x 600 dpi
	Bit Depth: 1 bit (black-and-white)
Network Protocols	POP3 (receive)
	SMTP (send)
Compliance ITU-T T.37 Compliant	Yes

Scan Specifications	
Concurrency	Scan while the system is copying, printing or while it is transferring scan to network or fax jobs – priority is for return of scanned originals and printing concurrent jobs.
Authentication	Supports: Kerberos (Windows 2000/UNIX/Windows Server 2003), SMB (Windows 2000/Windows Server 2003/Vista), NDS
	Optional secure device login with network user name and password
Network Protocol	FTP via TCP/IP
	sFTP via TCP/IP
	LDAP
TWAIN Support	Yes – push
Filing Protocols	HTTP and HTTPS
	Microsoft SMB via TCP/IP
	NetWare
Format Types	PDF or PDF/A (single or multi-page): MRC, JPEG, G3 MH, G4 MMR, JBIG 2 Huffman, JBIG Arithmetic Compression. Deflate (for B&W and within MRC)
	Color TIFF: TIFF 6.0 or TTN2 with JPEG, LZW B/W TIFF: G3MH, G4 MMR compression (single page or multiple pages)
Format Types	XPS (single or multi-page), JPEG
	Searchable PDF, PDF/A, XPS
	Password-Protected (encrypted) PDF is supported through the use of custom metadata fields in Workflow Scanning (not email or other scan services).
	Linearized PDF
Document Management Fields	One to six user-programmable metadata fields per scan job
	Customized fields viewed on user interface
Scan Features	Mixed Size Originals
	Bound Originals
	Variable data entered using virtual keyboard
Supported Scan Destinations	Reduction/enlargement
	Size for size (mixed size originals)
	Scan Build Job
	Compression Quality/File Size Control
	Original type (photo and text, photo, text, map, newspaper/magazine)
	Auto Background and Shadow Suppression
	Single-Touch Scan Services - configurable scan settings, logos, colors, and instructions.
	Scan to USB media (standard)
	Edge erase
Scanning Options	Scan to network server

	Scan to remote email destinations via direct SMTP addresses or via various network scanning software options
	Scan to Application (TWAIN-compliant)
	Scan to Microsoft Exchange 2000 Web Folders
	Xerox® Scan to PC Desktop (Professional and SE editions) optional
	Nuance® ScanFlowStore® optional
	Scan to Windows client (SMB or FTP)
	Scan to Network Folder
	Scan to Home
	ScanSoft PaperPort optional
	ScanSoft OmniPage optional
	Standard email
	Color scanning, Auto Color, Grayscale, Black-and-white
	Direct document email from device
	Scan to device mailbox (standard)
	Single Touch scan to email Via ConnectKey Apps
Scan Capability	Scan to remote email destinations via direct SMTP addresses or via various network scanning software options
	Scan to network server
	Scan to Application (TWAIN-compliant)
	Scan to device mailbox (standard)
Network Protocol Authentication	Device login with any supported Authentication mechanism (Network, Secure Access, CAC, Local Machine database, etc)
	Supports: Kerberos (Windows 2003 Server, Windows Server 2008, Windows 7, UNIX), SMB, (Windows Server 2003, Windows Server 2008), NetWare NDS
	Manual, device or network directory Exchange/Notes/LDAP address searching
	SMTP (with SSL V 3.0), S/MIME, LDAP, LDAPs encoded, SMTP w/ Kerberos
Directory Access	Network Address Book via LDAPv3
	Device Address Book (import/export via comma-separated file format) including favorites. <ul style="list-style-type: none"> • May default to either device or global address book as default • May add entries by sending an email to the device
	LDAP
	Domino
Scan to Folder on the Disk Drive	Standard
Email Security	Encrypted emails Automatically may populate from field from CAC/PIV/NET. May restrict to Kerberos authentication only

Authentication	Secure Print
	NDS Authentication over IP
	LDAP/Kerberos/SMB
	May hide authenticated user name at front panel.
	SMTP over SSL V 3.0
	Immediate Image Overwrite
	On Demand Image Overwrite (Scheduled, Manual), includes sanitation of unused area of disk
	Secure Web Page via SSL V 3.0.
	IPv6
	Common Access Card (CAC/PIV) with .P7B certificate types
	Gemalto .NET smart card
	User Permissions (color, tray, job type, 2-sided printing controls by user, group, or time of day)
	Software Verify Test
	McAfee Embedded Control Enhanced Security (standard): Host-based intrusion protection with centralized reporting of violations.
	McAfee Embedded Control Integrity Control (optional) Protects device from new executable files. File whitelisting with only trusted sources; centralized reporting of violation attempts.
	Optional secure device login with network user name/ password
	Supports: Kerberos (Windows Server 2003, Windows Server 2008, UNIX), SMB (Windows 2000/Windows Server 2003, Windows Server 2008, Windows Vista, Windows Vista, Windows 7), Novell NDS
	LDAP
	FIPS 140-2 w. SMTP Kerberos, OCSP, IPsec
	Windows 8
IPsec, IP Filtering	
Encryption	Encrypted Scan to Email, Password Protected PDF (only via Workflow Scanning)
	Encrypted Disk
	Audit Log
	Digitally Signed PDF (only via CAC)
	Accounting Control: <ul style="list-style-type: none"> • Xerox® Standard Accounting • Network Accounting • Third Party Integration • Supports Foreign Device Interface with ability to black access at services pathway level • Xerox® Page Accountant

Accounting	
Active Directory User Profile controls	Control color copy, print, and admin privileges. Plus, control what groups can access each individual service (copy, scan, email, fax, Xerox Extensible Interface Platform® apps, etc), and each pathway (Services, Job Status, Machine Status). Feature access control- Copy and Print.
Accounting: Xerox® Standard Accounting	Accounting Up to 2,500 User accounts (User ID); Up to 500 Group accounts (Department)
	Features Enabled/disabled via the web UI, admin can manage the feature remotely via the web UI
	Account configuration data can be imported and tracking data can be exported via CSV files, user required to enter Xerox Secure Access ID System® ID into the print driver when submitting a print job, similar to secure print.
	May prompt only for color
	Network Accounting for both driver and non driver jobs
	Network accounting may be configured by print, copy, scan, and fax
Authorization	User Permissions for print <ul style="list-style-type: none"> • Roles based for device, may clone • Roles may be based on LDAP groups Roles may be based on Services, Job, and Machine Status pathways. Tools may be in roles
Xerox Extensible Interface Platform	3.0

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