Xerox® AltaLink® Color / Black-and-White Multifunction Printers

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XOGWP-25UA

Executive Summary

The information in this document is intended to provide a summary or, where appropriate to avoid duplication, a reference to material that may form the basis of any documentation required to be authored by a technical author that describes how the Xerox® AltaLink® Color and Black-and-White Multifunction Printers (MFPs) are different from their predecessors, the Xerox® WorkCentre® 7800i/7970i Color MFP Family and WorkCentre 5800i/5900i Mono MFP Family. .

This white paper is intended to provide a technology overview to help field personnel and IT organizations understand the similarities and differences between the WorkCentre 7800i MFP Family and WorkCentre 7970i MFP and Xerox® AltaLink® Color and Black-and-White MFPs. It is also intended to help minimize accreditation efforts so we can more quickly, and cost effectively, introduce the new features and functionality offered by Xerox® AltaLink® Color and Black-and-White MFPs to enhance the customer's work environment.

The information presented in this "evergreen" document is broken into three main sections:

- Part I: Platform Overview—Provides an introduction to Xerox® ConnectKey® Technology and its value proposition
- Part II: Technical Considerations—Lists the new features offered with the software for 2017 Xerox® ConnectKey-enabled AltaLink MFPs
- Part III: User Interface—Shows the differences between the ConnectKey 2.0 Controller and Xerox® AltaLink Family Controller Software

Part I: Platform Overview

Platform Introduction

In Q2 of 2017, Xerox will be introducing the Xerox® AltaLink® Color and Black-and-White Multifunction Printer product family. Xerox® AltaLink Color and Black-and-White MFPs will be a part of the ConnectKey® Technology Ecosystem and will replace the WorkCentre® 7800i/7970i MFP Family as well as the WorkCentre 5800i/5900i MFP Family.

Xerox® AltaLink Color and Black-and-White MFPs are scalable and powerful enough for mission-critical activities. These devices are ideal for centralized use (i.e., placed to maximize the number of shared users per machine and to defray overall costs). The Xerox® AltaLink Color and Black-and-White MFP product family targets more demanding users, such as those with advanced finishing requirements, who print large volumes, require the highest productivity and efficiency, and who have the most advanced security needs. These devices can be customized with software, and may have periodic platform-wide compatible software updates. Most are sold with metered plans and leases.

The key differences in the Xerox® AltaLink Color and Black-and-White MFP from its predecessor products are an updated controller and a completely redesigned user interface. AltaLink C8000 models have the same base engine and single pass scanner throughout the product family. Similarly, the AltaLink B8000 models have the same base engine and single pass scanner throughout the product family. The new controller is updated from the existing ConnectKey 2.0 controller software, providing coherency with all the ConnectKey products launched previously.

INTUITIVE USER EXPERIENCE

Completely Redesigned User Interface

An entirely new—and yet entirely familiar way to interact includes a tablet-like experience with gesture-based touchscreen controls and easy customization offered on all ConnectKey® Technology AltaLink® and VersaLink® products.

Xerox® AltaLink local user interface:

- Modern, 10" mobile-device-like, ultra-responsive color touchscreen UI
- HTML 5-based
- Mobile "app" style presentation of services
- Customizable to show/hide apps
- Native apps:
  - Separate workflow scanning, email, fax, and copy are presented on main screen of UI
  - App Gallery, Cloud Apps: Google Drive™, OneDrive®, Dropbox™ and Office 365® downloadable from the App Gallery presented on main screen of UI
- Embedded Web Server
  1. Completely overhauled look and feel
  2. Responsive design architecture
  - New search field allows quick way to find specific features
  - Configure MFP, customize user interface, run diagnostic and services remotely

Contemporary Hardware Design

The outward look of the hardware is updated with these goals in mind:

- Contemporary design
- Simple silhouette
- Simple elements
- Simple user interface

MOBILE AND CLOUD READY

All Xerox® AltaLink® Color and Black-and-White MFP devices are mobile-ready and cloud-ready, and compatible out of the box with Mopria®, Google Cloud Print™ and Apple® AirPrint®. Such capabilities provide a universal experience no matter how users choose to print, and connect users to where they do business.

They include the following:

- Air Print 1.6—print/scan
- Mopria support 1.2—print/scan
- Google Cloud Print 2.0
- NFC support
- Wi-Fi® support (optional)
- Wi-Fi Direct® for Android™ and Windows® (optional)
- Microsoft Windows Mobile printing

Some additional mobile print technology examples are:

- **Mopria Print Service** is supported for mobile devices running Android™ KitKat (4.4 or greater) via a free download available in the Google Play™ store.
- **Xerox® Print Service Plugin for Android™**
- **Xerox® Mobile Link App**
- **Xerox® Mobile Print** (via Cloud or onsite)

Xerox® AltaLink® MFPs are cloud-ready through the App Studio and App Gallery apps. These apps extend the capabilities of ConnectKey® Technology-enabled MFPs and help make the most of your hardware investment without a dedicated server, PC or IT resource. The Xerox App Gallery provides instant access to the following types of ConnectKey apps:

- Cloud Connector apps (such as Google Drive™, OneDrive®, Dropbox™)
- Productivity apps (such as Xerox® Easy Translator Service)
- Device Management apps
- Scan apps (workflow)

Visit http://www.xerox.com/AppGalleryto access and view our always-growing collection.

Easy Setup and No IT

ConnectKey® apps are designed to be very simple. If a device is functional on the network, specialized IT help should be unnecessary. In addition, ConnectKey apps are digitally signed to assure their authenticity and the use of unauthorized apps is controlled by requiring administrator authentication before installation on an MFP. No additional impact should be expected on the network.

All 2016 and later ConnectKey Technology-enabled MFPs support ConnectKey apps.

BENCHMARK SECURITY

Security is a top priority for every business. Xerox® ConnectKey® Technology exceeds industry standards for security features and technologies. Work with total peace of mind.

A Higher Standard

Although it's integral to our technology, there's nothing standard about the levels of security included with every ConnectKey-enabled device. Our holistic four-point approach to security ensures comprehensive and all-encompassing protection for all system components and points of vulnerability.

- Intrusion Prevention—ConnectKey Technology utilizes a comprehensive set of capabilities that prevents malicious attacks, proliferation of malware and misuse of unauthorized access to the printer, whether from transmitted data or direct interaction at the device. All possible access points are secure, including the user interface, and input ports accessible to walkup users as well as PC, server, mobile devices or cloud connections.
- Device Detection—Xerox® ConnectKey® Technology runs a comprehensive Firmware Verification test, either at start-up* or when activated by authorized users. This provides alerts if any harmful changes to the printer have been detected. McAfee® Whitelisting** technology constantly monitors for and automatically prevents any malicious malware from running.
- Document and Data Protection—Our comprehensive security measures don't stop with preventing unauthorized access to your printer and securing your information from the inside. ConnectKey Technology provides capabilities to prevent intentional or unintentional transmission of critical data to unauthorized parties. From protecting printed materials by not releasing documents until the right user is at the device, to preventing scanned information reaching beyond its intended recipient, ConnectKey Technology offers the safeguards you need to keep your most critical data assets safe and secure.

  Xerox also protects all your stored information, using the highest levels of encryption. You can delete any processed or stored data that is no longer required using National Institute of Standards and Technology (NIST), and U.S. Department of Defense approved data clearing and sanitization algorithms.
- External Partnerships—ConnectKey Technology provides extra security standards through our partnership with McAfee®. We measure our performance against international standards with certifications like Common Criteria and FIPS 140-2 to ensure our devices are trusted in even the most secure environments.

Key security features:

- Hard Disk 256-bit Encryption
- Secure Email
- Disk Overwrite
- Card Reader Authentication (90+ cards supported)
- User Access Control
- User Permissions
- Domain Filtering
- Digital Signage
- Delivery Confirmation
- Common Criteria Certification Compliance
- FIPS 140-2 Compliance
- Software Upgrade/Install File Encryption
- SIPR Card Support
- FIPS Compliant SNMP v3
- Embedded McAfee
- SMTP over TLS
- IPsec (major)
- IP Filtering
- Kerberos Authentication
- SFTP
- LDAPS
- 802.1x
- HTTPS
- IPPS
- Secure PDF

ENABLES NEXT GENERATION SERVICES

Moving to a Managed Print Service is a growing trend that is not just for large corporations. SMBs are also looking for partners who can help them reduce their costs and improve their efficiency.

Xerox® Managed Print Services (MPS) meets the demands of today's workplace by enabling customers to:

- Hit cost-cutting targets

- Reach green initiatives
- Protect information security
- Improve customer experiences
- Increase employee productivity
- Transition from paper to digital

Xerox® AltaLink® MFP devices complement MPS because the technology delivers portfolio optimization through consolidation of document-related services; enhanced security from internal and external threats, as well as integration into network and mobile environments; and controls output usage in environments such as office print and centralized print.

Xerox® ConnectKey®-enabled AltaLink MFPs play an integral part in delivering benchmark services through each phase of the Xerox® Next Gen Managed Print Services.

Assess and Optimize

AltaLink® MFPs are designed to integrate with Managed Print Services assessment and management tools to provide optimized fleet and device management, cost control, improve fleet performance, reduce waste and power consumption, improve visibility of end-user print usage and provide service and help desk support.

Fleet Optimization

- Integration with device discovery and management tools
- Network accounting and job limits
- Xerox® Standard Accounting
- LAN Fax
- Backup and restore

User Experience

- Consistent experience across fleet
- Ability to customize workgroup screens and apps
- Xerox® Support Assistant 1.0 app for Xerox Partner Print Services (XPPS) customers

Sustainability

- Global print driver
- Earth Smart Printing
- Cisco EnergyWise® compliant

Secure and Integrate

AltaLink® MFPs securely integrate into the customer's IT environment and provide major benefits to support the customer's print policies, prevent general access to restricted printers and control access to intellectual property. They provide multiple layers of security, help comply with industry certifications and government policies and reduce IT burden through remote installation, configuration and cloning. And they enable mobile workers to work from anywhere, anytime, using their personal mobile devices.

Key features:

- Cloning across all AltaLink devices and remote installation
- Card-based authentication
- Encrypted Secure Print with print queue deletion
- Hard disk encryption and disk overwrite
- Secure email and encryption
- User permissions and rules-based printing
- McAfee whitelisting technology
- Apple® AirPrint® support
- Xerox® Mobile Print Solution (on premise)
- Print@PrintByXerox
- Plugin for Android™/Mopria®
- Connectors for Cloud apps, such as Google Drive™, Box®, OneDrive®, Office 365®, Dropbox™, etc.
- Solutions with both cloud and on-premise deployment

Automate and Simplify

AltaLink® ConnectKey® Technology helps to improve productivity by simplifying and automating workflows and enabling paper to digital transformation. Personalized workflows simplify the user experience and increase productivity through scans optimized for archiving, searchable documents for workflows and hard copy to digital document integration with industry-standard or proprietary document management systems.

Key features:

- Cloud connectors like Dropbox™, Google Drive™, Office 365® and Box®
- Workflow Automation solutions
- Xerox® Easy Translator Service—translate documents from the AltaLink device into more than 40 languages
- CapturePoint® for simple file conversion on the fly

To optimize the output environment, Xerox® AltaLink® MFP devices integrate into existing IT environments in accordance with regulations. And Xerox provides the solutions for users to work how they need to, without the worry of maintaining the integrity of the IT environment.

New features:

- Cloning support across all Xerox® AltaLink MFPs
- Remote configuration of critical security settings
- Install validation/repair
- Enable service contract (sold versus metered) change remotely
- 'One Touch' remote install
- Save/restore customer settings
- Optimize CRU life remotely

GATEWAY TO NEW POSSIBILITIES

Xerox® AltaLink® Color and Black-and-White MFPs are on-ramps to the document services highway. Beyond just printing, scanning, faxing and being services-optimized, these devices are solutions-enabled to vastly extend the capabilities of the MFP.

Xerox Extensible Interface Platform® (EIP)

EIP is the key to allowing ConnectKey® Technology-enabled devices to adapt to the way customers work, not the other way around. EIP is an on-device software platform that allows independent software vendors and developers to easily create robust, server-based comprehensive

solutions that greatly enhance productivity, such as in document management, accounting, mobile printing and user access controls.

Xerox App Gallery/Xerox® App Studio®/PAB Program

ConnectKey® Technology opens up unlimited opportunities to extend MFP capabilities that streamline customers' business processes and improve productivity through apps. The App Gallery allows customers to download new serverless apps to the ConnectKey-enabled MFP, such as Scan to and Print from Dropbox, Microsoft Office 365, Google Drive and OneDrive. Xerox partners provide value-added services, and create revenue streams for their companies, by offering customized simple workflows through the App Studio, or for more sophisticated customization, the Personalized Application Builder (PAB)* program lets users connect with partners to build complex apps to meet their unique workflow requirements.

*Xerox MFP Workflow App Customization Program for Xerox direct clients

CONNECTKEY® TECHNOLOGY-ENABLED XEROX® ALTALINK® PRODUCTS

- Xerox® AltaLink® MFP products are available in the following color and black-and-white speed configurations:
- Xerox® AltaLink® C8000 Series Color Multifunction Printers: 30/30 ppm; 35/35 ppm; 45/45 ppm; 50/55 ppm and 70/70 ppm
- Xerox® AltaLink® B8000 Series Black-and-White Multifunction Printers: 45 ppm; 55 ppm; 65 ppm; 75 ppm and 90 ppm

For more information on details and about all the features available with these products, visit www.connectkey.com.

Part II: Technical Overview: Changes Available with the Software on the Xerox® AltaLink® MFPs

SOFTWARE

Xerox® AltaLink® Color and Black-and-White MFP products are based on the Xerox® Smart Controller software platform that has been adopted as the basis of the ConnectKey® Technology products since its inception in 2013. The updated controller of the Xerox® AltaLink products provides consistency and coherency in features across the ConnectKey Technology-enabled product lines.

Compatibility/Upgrades

Although the controller in the AltaLink products is an update to the Xerox® Smart Controller 2.0 software, it is not backwards compatible with the WorkCentre® 7800i/7970i MFPs or the WorkCentre 5800i/5900i MFPs. Since the new AltaLink products have a redesigned user interface, the software cannot be used to upgrade the previous line of ConnectKey Technology iSeries products.

NEW PRODUCTIVITY FEATURES

The following new features are available with the Xerox® AltaLink® Color and Black-and-White MFP products controller:

10" User Interface

A large 10" tablet-like, ultra-sensitive, gesture-based touchscreen allows swipe, pinch and scroll interactivity. Mobile app style presentation of services has a familiar look and feel. Customize the home screen to show/hide native apps, add time-saving workflows and place commonly used ones front and center. It all adds up to vastly improved user productivity.

Embedded Web Server with Search

A responsive architecture design comes with a completely overhauled look and feel. Users no longer have to guess or fumble their way to find features with the addition of the new search tool that allows them to type key words to get to the desired actions. Get status information and perform device management and cloning for quick configuration across multiple devices (within the same product family).

Embedded Card Reader

Security is a top priority for every business, and ensuring the right people have access to today's smart printers goes a long way to ensuring security from unwanted intrusion. Smart card authentication protects ConnectKey® Technology-enabled devices from unauthorized walkup access using the optional embedded RFID card readers that support over 90 types of proximity cards. Card readers are now hidden under the covers, providing a clean, professional look while freeing up the USB port on the front panel.

NFC Tap-to-Pair

Every Xerox® AltaLink® multifunction printer is enabled with Near Field Communication (NFC) for simple pairing with all mobile devices that have built-in NFC tap-to-pair capability (Android™ only). Mobile users cut through the process of finding and installing printers from the network by simply walking up and tapping the user screen with their mobile device to make a connection with the MFP and they are ready to print. A great time-saving tool for a mobile workforce.

Embedded Apps and Xerox App Gallery for Extra Convenience

Xerox and Xerox partners are consistently developing new productivity-enhancing apps and making them available through the App Gallery. Users can access the App Gallery from the User Interface of a ConnectKey®-enabled MFP or by visiting www.xerox.com/AppGallery.

OTHER FEATURES

- Faster power up from Off and more responsive user interface. See specific products' detailed specification sheets for new times.
- Improved operability in Microsoft environment (SMBv2/v3) and support for Windows® 8 and Server 2012
- RIP updates: Adobe® PostScript® RIP 3020, CSR IPS 2012.1
- Reduce/Enlarge enabled for booklet creation

NEW PRODUCT-SPECIFIC FEATURES

There are a few new features that are added to only these specific products:

Xerox® AltaLink® C8000 Series

This product can be upgraded to utilize a new EFI™ Fiery® Network Server, which gives you a host of benefits including color management tools, enhanced productivity and flexible workflow tools.

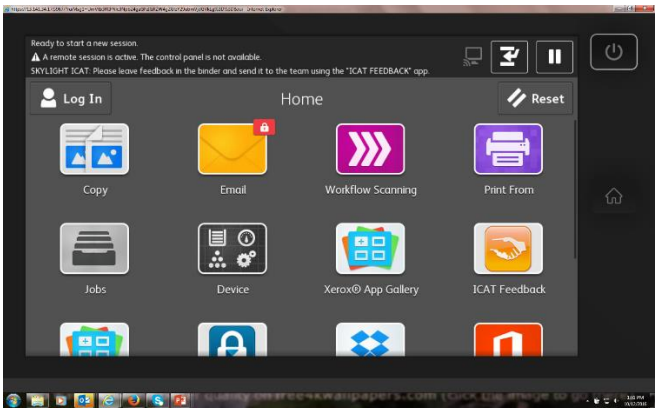
Xerox® AltaLink® B8000 Series

Scans on the platen will prompt the user to select the paper size before the scan occurs.

Part III: User Interface—Differences Between the Xerox® C8000/B8000 Series and Xerox® ConnectKey® Technology i-Series Products

USER INTERFACE

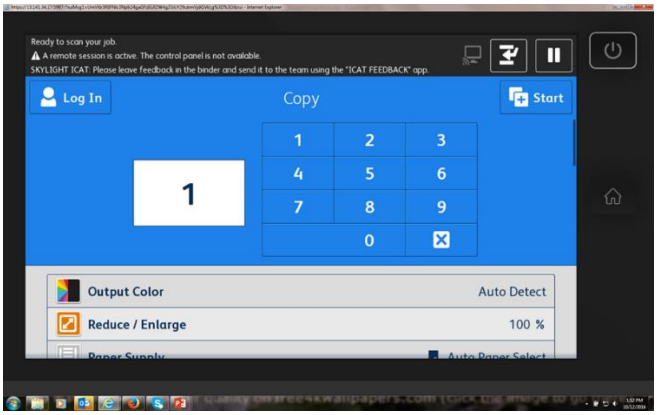
Services Home Pathway



New User Interface

Xerox® ConnectKey® Technology i-Series

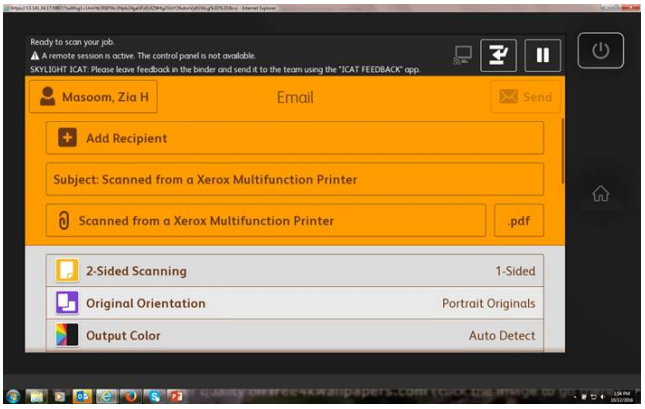
Copy Service



New Copy Screen

Xerox® ConnectKey® Technology i-Series

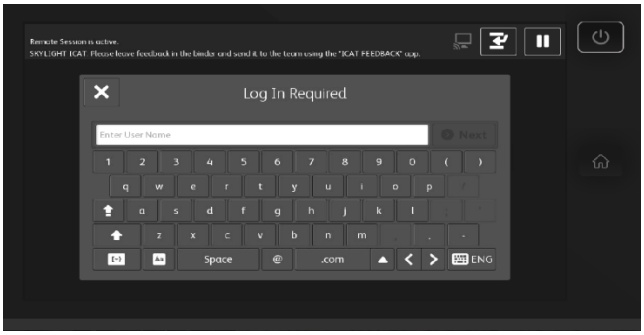
Email Service



New Email Screen

Xerox® ConnectKey® Technology i-Series

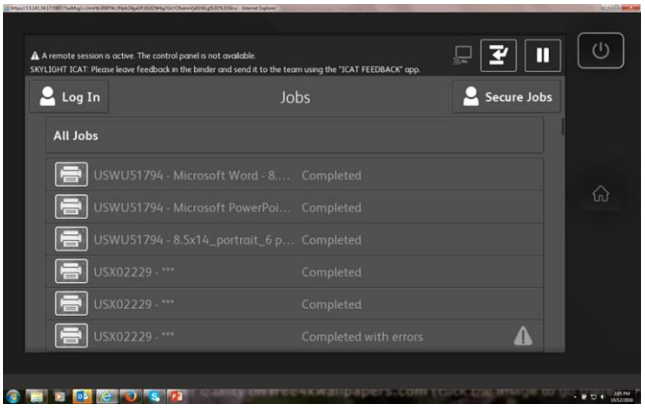
Keyboard



New User Interface

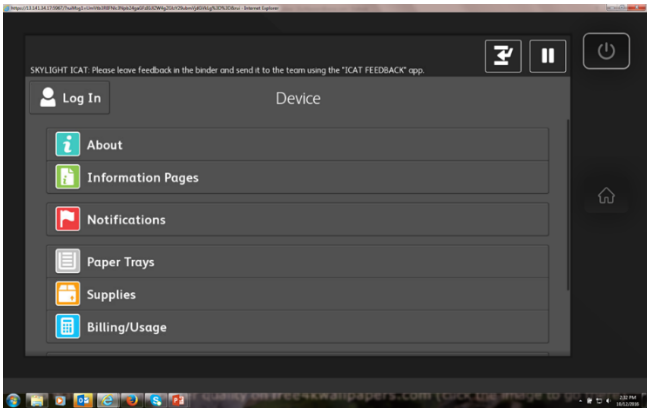
Xerox® ConnectKey® Technology i-Series

Job Status Pathway

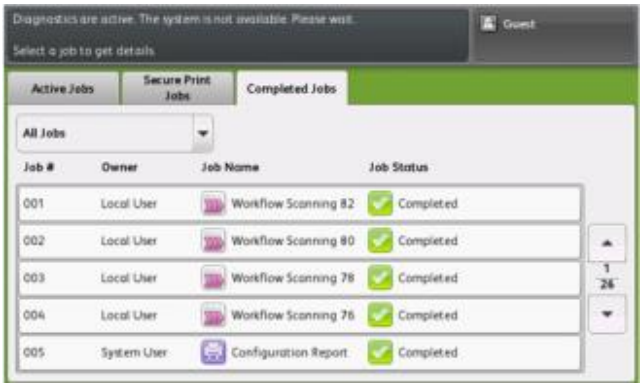


New User Interface Jobs Status

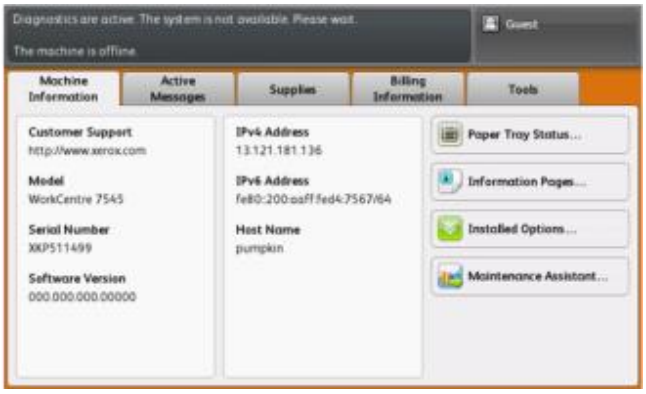
Machine Status Pathway



New User Interface Machine Status

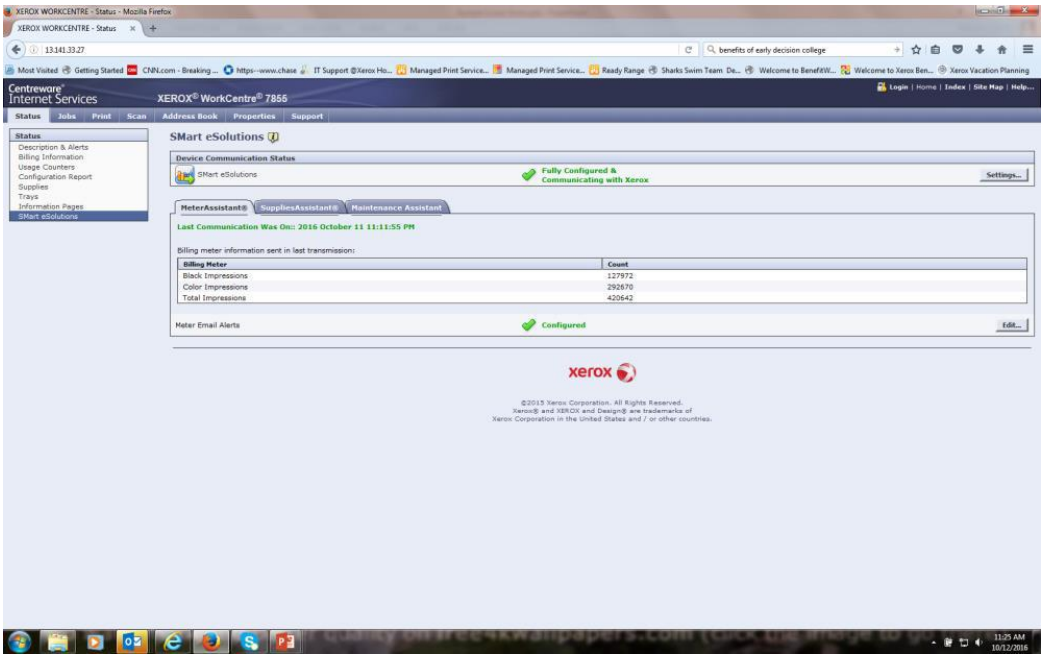


Xerox® ConnectKey® Technology i-Series



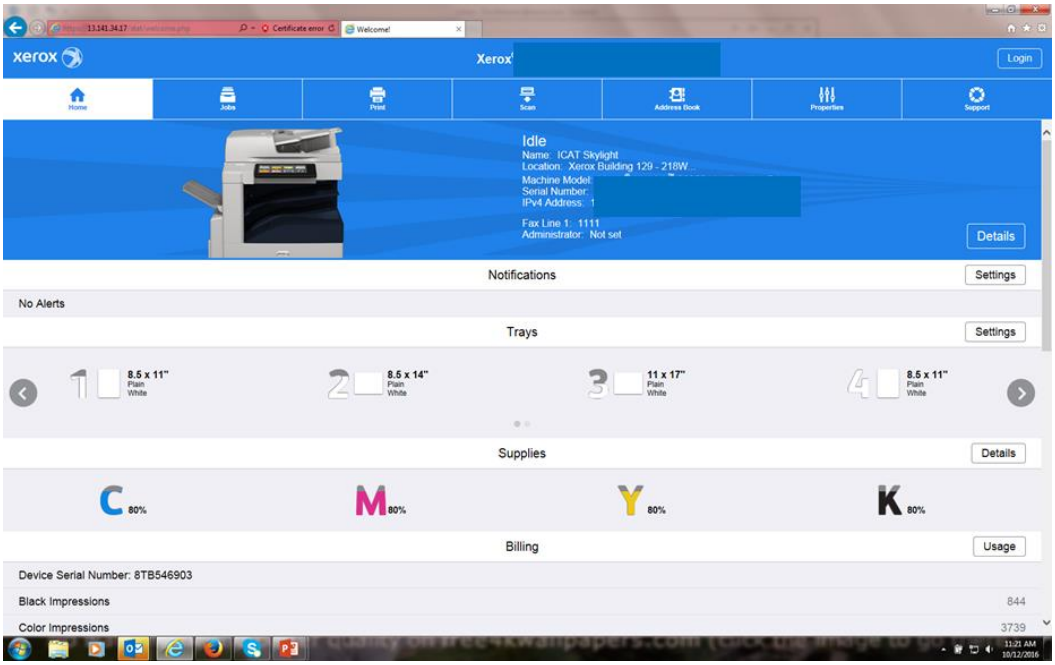
Xerox® ConnectKey® Technology i-Series

XEROX® CENTREWARE® INTERNET SERVICES—DIFFERENCES BETWEEN ADMINISTRATIVE SCREENS



ConnectKey® i-Series CentreWare® Internet Services

EMBEDDED WEB SERVER (PREVIOUSLY CALLED CENTREWARE INTERNET SERVICES)



New Embedded Web Server

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