



Lexmark™

Universal Print Driver

Technical White Paper Revision 3a

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Change history

Change history

Lexmark Universal Print Driver (UPD) version 3.0.1

- Added information on fixes done in UPD.

Note: For more information, see [“What are the fixes done in UPD?” on page 50](#).

Lexmark Universal Print Driver (UPD) version 3.0

- Added support for print encryption.
- Added support for dynamic driver configuration directly from the printer by using bidirectional communication.
- Added support for the following certifications:
 - Citrix® Virtual Apps and Desktops 7 2103
 - Citrix Virtual Apps and Desktops 7 2012
 - Citrix Virtual Apps and Desktops 7 2009
 - Citrix Virtual Apps and Desktops 7 2006
 - Citrix Virtual Apps and Desktops 7 2003
 - Citrix Virtual Apps and Desktops 7 1912 LTSR
 - Citrix Virtual Apps and Desktops 7 1909

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for the following operating systems:
 - Microsoft Windows Server 2022
 - Windows 11

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver (UPD) version 2.15.2

- Enhanced security to prevent attacker-controlled codes that are running with system privileges.

Lexmark Universal Print Driver (UPD) version 2.15.1

- Added support for the following printer models:

Color laser multifunction products

- MC3200 Series (MC3224i)
- MC3300 Series (MC3326i)
- MC3400 Series (MC3426i)
- XC2300 Series (XC2326)

Monochrome laser multifunction products

- MB3400 Series (MB3442i)
- MB2200 Series (MB2236i)
- XM1300 Series (XM1342)

Color laser printer

C2300 Series (C2326)

Monochrome laser printer

M1300 Series (M1342)

Lexmark Universal Print Driver (UPD) version 2.15

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.15. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser multifunction products

- CX430 Series (CX431adw)
- MC3400 Series (MC3426adw)
- XC4100 Series (XC4143, XC4153)
- XC6100 Series (XC6153, XC6153de)
- XC8100 Series (XC8163)

Color laser printers

- C3400 Series (C3426dw)
- CS430 Series (CS431dw)

Monochrome laser multifunction products

- MB3400 Series (MB3442adw)
- MX330 Series (MX331adn)
- MX430 Series (MS431adn, MS431adw)

Monochrome laser printers

- B3300 Series (B3340dw)
- B3400 Series (B3442dw)
- MS330 Series (MS331dn)
- MS430 Series (MS431dn, MS431dw)
- Added support for the following certifications:
 - Citrix Virtual Apps and Desktops 7 1906
 - Citrix Virtual Apps and Desktops 7 1903
 - Citrix Virtual Apps and Desktops 7 1811

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for Microsoft Windows Server 2019 (64-bit) operating system as a cluster server.
Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).
- Added support for all paper types as the paper source in the device capabilities.
- Added support for all print processor functions to work properly when the "Always prompt for PIN at print time" setting is enabled.

Lexmark Universal Print Driver version 2.14.1

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.14.1. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser multifunction products

- CX330 Series (CX331adwe)
- MC3200 Series (MC3224adwe, MC3224dwe)
- MC3300 Series (MC3326adwe)

Color laser printers

- C3200 Series (C3224dw)
- C3300 Series (C3326dw)
- CS330 Series (CS331dw)

Monochrome laser multifunction products

MB2200 Series (MB2236adwe)

- Added support for the following certifications:
Citrix Virtual Apps and Desktops 1808

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for Microsoft Windows Server 2019 operating system.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.14

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.14. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Monochrome laser multifunction products

MB2200 Series (MB2236adw)

Monochrome laser printers

B2200 Series (B2236dw)

- Added support for the following certifications:
 - Citrix XenApp® 7.18
 - Citrix XenApp 7.17

- Citrix XenDesktop® 7.18
- Citrix XenDesktop 7.17

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for printing the fax cover page using a 32-bit application on a computer that is running on a 64-bit operating system.
- Added support for the print time setting of the "Confidential print" feature to accept a PIN, and then release the job from the spooler.
- Updated support for locking the watermark by name.

Lexmark Universal Print Driver version 2.13.1

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.13.1. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser multifunction products

- CX421adn
- CX522ade
- CX620 Series (CX622ade, CX622adhe)
- CX625 Series (CX625ade, CX625adhe, CX625adthe)
- MC2325adw
- MC2425adw
- MC2500 Series (MC2535ade, MC2535adwe)
- MC2640adwe
- XC2200 Series (XC2235, XC2240)
- XC4240

Color laser printers

- C2240
- C2425dw
- C2500 Series (C2535dn, C2535dw)
- CS421dn
- CS521dn
- CS622de

Monochrome laser multifunction products

- MB2770adwhe
- MX720 Series (MX721ade, MX721adhe, MX722ade, MX722adhe)
- MX725adve
- MX820 Series (MX822ade, MX822adtfe, MX822adx, MX824ade, MX824adx, MX824adtfe, MX826ade, MX826adtfe, MX826adx)
- XM5300 Series (XM5365, XM5370)
- XM7300 Series (XM7355, XM7365, XM7370)

Monochrome laser printers

- B2865dw
- M5200 Series (M5255, M5265, M5270)
- MS725dvn
- MS820 Series (MS821dn, MS821dtn, MS821n, MS822de, MS823dn, MS823n, MS824de, MS824dtn, MS825dn, MS826de, MS826dtn)

Lexmark Universal Print Driver version 2.13

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.13. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Monochrome laser multifunction products

- MB2300 Series (MB2338adn, MB2338adw, MB2338dw)
- MB2400 Series (MB2442ade, MB2442adwe)
- MB2546ade
- MB2650ade
- MX320 Series (MX321adn, MX321adw)
- MX421ade
- MX520 Series (MX521ade, MX522adhe, MX521adte, MX521de)
- MX620 Series (MX622ade, MX622adhe, MX622adthe)
- XM1200 Series (XM1242, XM1246)
- XM3250

Monochrome laser printers

- B2300 Series (B2338dn, B2338dw)
- B2400 Series (B2442dn, B2442dw)
- B2546dn
- B2650dn
- M3250
- MS321dn
- MS420 Series (MS421dn, MS421dw)
- MS521dn
- MS620 Series (MS621dn, MS621dtn, MS622de, MS622dte)
- Added support for separator sheets.
- Added support for Hagaki paper size.
- Added support for image watermarks when using PostScript® print drivers.
- Added support for the following certifications:
 - Citrix XenApp 7.16
 - Citrix XenApp 7.15
 - Citrix XenApp 7.14
 - Citrix XenApp 7.13

- Citrix XenApp 7.12
- Citrix XenDesktop 7.16
- Citrix XenDesktop 7.15
- Citrix XenDesktop 7.14
- Citrix XenDesktop 7.13
- Citrix XenDesktop 7.12

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Updated the dmColor value of Devmode to sync properly with color and monochrome print jobs when using PCL® 5 and PCL XL emulation drivers. The "Print in Black and White" setting of UPD syncs with the color and monochrome settings of an application.

Lexmark Universal Print Driver version 2.12

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.12. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser multifunction products

- CX920de
- CX921de
- CX922de
- CX923dte
- CX923dxe
- CX924dte
- CX924dxe
- CX927de
- XC4140
- XC9235
- XC9245
- XC9265

Color laser printers

- C9235
- CS921de
- CS923de
- CS927de
- Added support for the Novell Open Enterprise Server 15 on SUSE Linux Enterprise Server 11 SP4 x86 and x64 operating systems.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Added support for Branch Office Direct Printing.
- Added support for previewing bitmaps of paper sizes with different orientation and finishing settings.
- Added support for user-controlled bidirectional communication.

- Added support for the following certifications:

- Citrix XenApp 7.11
- Citrix XenApp 7.9
- Citrix XenDesktop 7.11
- Citrix XenDesktop 7.9

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.11

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.11. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser multifunction products

- CX317dn
- CX417de
- CX517de
- CX727de
- CX827de

Monochrome laser multifunction products

- MX317dn
- MX417de
- MX517de
- MX617de
- MX717de
- MX718de

Color laser printers

- CS317dn
- CS417dn
- CS517de
- CS727de
- CS728de
- CS827de

Monochrome laser printers

- MS317dn
- MS417dn
- MS517dn
- MS617dn
- MS817dn
- MS817n

- MS818dn
- XM5200 Series (XM5263, XM5270)
- XM7200 Series (XM7263, XM7270)

Note: For more information, see [“Supported printers” on page 23](#).

- Added support for the following languages:

- Croatian
- Serbian
- Slovak
- Slovenian

- Added support for Novell 15 operating system.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Added support for Microsoft Windows Server 2016 operating system.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Added support for the following certifications:

- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Improved the time to first print.

Lexmark Universal Print Driver version 2.10

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.10. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for the following printer models:

Color laser printers

- C4100 Series (C4150)
- C6100 Series (C6160de)
- CS720 Series (CS720de)
- CS725 Series (CS725de)
- CS820 Series (CS820de, CS820dte, CS820dtfe)

Color laser multifunction products

- CX725 Series (CX725de, CX725dhe, CX725dthe)
- CX820 Series (CX820de, CX820dtfe)
- CX825 Series (CX825de, CX825dte, CX825dtfe, CX825dtpe)
- CX860 Series (CX860de, CX860dte, CX860dtfe, CX860dtpe)
- XC4100 Series (XC4150)
- XC6100 Series (XC6152de, XC6152dtfe)
- XC8100 Series (XC8155de, XC8155dte, XC8160de, XC8160dte)

Note: For more information, see [“Supported printers” on page 23](#).

- Added support for Citrix Ready XenApp 7.6 certification.

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for two-sided printing.
- Added support for image compression in PostScript print drivers.
- Added support for showing the actual print speed in the Printer Properties dialog box.

Notes:

- If the print driver is installed and is connected to the printer, then the actual print speed is shown. If the printer is disconnected, then the printer model is set to Universal Mono Laser or Universal Color Laser, and the print speed is 20 ppm.
 - If the print driver is installed and the printer is selected using Set Print Model, then the actual print speed is shown. If the printer is disconnected, then the minimum print speed is shown.
- Removed support for Windows Server 2003.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.9.1

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.9.1. If you are using status monitor applications, then use only UPD version 2.6.

Added support for Windows 10.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.9

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.9. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for applying a configuration file to printers on a cluster or remote environment.

Note: The configuration file can be applied using the Printer Driver Configuration Utility or from the command prompt using **ConfigUtil**. For more information, see the *Printer Driver Configuration Utility Help*.

- Added support for using the LIBJPEG library in rendering JPEG images, and removing GPL2 and GPL3 licensed files.
- Added support for allowing the host application to send JPEG data without converting it to a bitmap image file.

Note: This feature is available only in PCL XL emulation drivers.

- Added default settings for the print quality feature.
- Added support for job accounting when tracking fax jobs.
- Added support for printing documents from the Google Cloud Print™ web printing service. The following print driver features do not work when printing from Google Cloud Print:

Emulation drivers

- Multiple pages per side (N-up)
- Use full printable area

PostScript print drivers

- Poster
- Booklet
- Multiple input options (MIO)
- PostScript Language level (PS)

PCL XL emulation drivers

- Send color to printer
- Added support for the European Accessibility Mandate 376 (EN 301 549) user interface compatibility.
- Improved the user interface performance of the "Printing preferences" and Printer Properties dialog boxes in a Point and Print scenario with network latency.
- Replaced the "Enhance fine lines" feature with the Halftone feature.
- Restricted support for color printing when the printer model is set to **Universal Mono Laser**.
- Removed support for the following print quality presets:

For color printers:

- Text
- Text/Photo
- Photo
- Custom

For monochrome printers:

- Draft
- Normal
- Best
- Custom

Lexmark Universal Print Driver version 2.8

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.8. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for Citrix XenApp 7.5 certification.

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for the following operating systems:
 - Novell 12
 - Novell 11

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Added print support for non-Lexmark printers that support compliant PostScript and PCL emulation page description languages.

Depending on the non-Lexmark printer, the following basic features are supported:

- Some paper sizes and types
- Some source selections

- Two-sided printing
- Page layout settings
- Improved support for image compression to reduce the spool file size.
- Improved support for user interface performance of the "Printing preferences" and Printer Properties dialog boxes.
- Improved the print driver response when updating the printer configuration using the Update Now-Ask Printer setting.
- Improved the finishing performance when printing using a PostScript 3 print driver.
- Improved the printing of watermarks when using a Microsoft Word plug-in.
- Improved the printing of Microsoft Word documents containing embedded PCL 5 macros when using PCL XL emulation drivers and PostScript print drivers.
- Improved the previewing of Microsoft PowerPoint documents when using a PostScript 3 print driver.
- Improved printing from a Windows 8.1 computer when using PCL XL emulation drivers and a PostScript 3 print driver.
- Removed support for enabling two-sided printing by default.

Note: For printer models that support two-sided printing, this setting can be enabled manually. For a list of supported printers, see [“Supported printers” on page 23](#).

Lexmark Universal Print Driver version 2.7.2

Notes:

- If you are not using status monitor applications, then you can upgrade to UPD version 2.7.2. If you are using status monitor applications, then use only UPD 2.6.
- This version contains only bug fixes. If you are using a private print driver, then check the updates before installing this version to avoid losing specific fixes for your private print driver.
- Improved the printing of Microsoft Word documents with JPEG images when using PCL XL emulation drivers.

Note: To avoid generating large print spools, we recommend using image compression when printing.

- Improved the printing of Microsoft Excel documents when using PCL XL emulation drivers.
- Removed support for Windows XP.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.7.1

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.7.1. If you are using status monitor applications, then use only UPD version 2.6.

- Added support for some color and monochrome laser printers.

Note: For a list of supported printers, see [“Supported printers” on page 23](#).

- Added support for Microsoft Device Stage when installing the UPD on a TCP/IP port.
- Added support for the following enhanced resolutions:
 - 1200 IQ
 - 2400 IQ
 - 4800 CQ

Note: This feature is available only in PCL 5 and PCL XL emulation drivers.

- Added support for image compression to improve printing performance.

Note: This feature is available only in PCL XL emulation drivers.

- Added support for folding paper in thirds automatically.
- Added support for enabling two-sided printing by default.

Note: This feature is available only in some printer models. For a list of supported printers, see [“Supported printers” on page 23](#).

- Improved support for UPD installation on a client using a Novell IPP port by using bidirectional communication.

Lexmark Universal Print Driver version 2.6.1

Note: If you are not using status monitor applications, then you can upgrade to UPD version 2.6.1. If you are using status monitor applications, then use only UPD version 2.6.

- Removed support for the language monitor component.

Lexmark Universal Print Driver version 2.6

- Added support for some color and monochrome laser printers.

Note: For a list of supported printers, see [“Supported printers” on page 23](#).

- Added support for the following operating systems:
 - Windows 8.1
 - Windows Server 2012 R2

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Updated the print driver version numbering format.

Note: For more information, see [“What is the UPD version numbering format?” on page 50](#).

- Updated the list of supported paper sizes.

Note: For a list of supported paper sizes, see [“Supported paper sizes” on page 32](#).

Lexmark Universal Print Driver version 2.x.5

The **x** is the data stream.

- Added support for some color and monochrome laser printers.

Note: For a list of supported printers, see [“Supported printers” on page 23](#).

- Added support for the following operating systems:
 - Windows 8
 - Windows Server 2012

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

- Added support for the following certifications:
 - Citrix XenApp 6.5
 - Citrix XenApp 6.0

Note: For a list of supported Citrix implementations, see [“Supported operating systems” on page 20](#).

- Added support for the Package Creation Utility.
- Updated the list of supported languages.

Note: For a list of supported languages, see [“Supported languages” on page 34](#).

Lexmark Universal Print Driver version 2.x.4

The **x** is the data stream.

- Added support for some color laser printers.

Note: For a list of supported printers, see [“Supported printers” on page 23](#).

- Added support for some operating systems.

Note: For a list of supported operating systems, see [“Supported operating systems” on page 20](#).

Lexmark Universal Print Driver version 2.x.3

The **x** is the data stream.

- Added support for some color inkjet printers.

Note: For a list of supported printers, see [“Supported printers” on page 23](#).

- Added support for some paper sizes in inkjet printers.

Note: For a list of supported paper sizes, see [“Supported paper sizes” on page 32](#).

Lexmark Universal Print Driver version 2

- Added support for print driver version increments.
- Added support for custom installation package.
- Added support for job accounting.
- Added support for dynamic print driver configuration.
- Added support for Printer Driver Configuration Utility.
- Updated the user interface.

Overview

The Lexmark™ UPD provides a standardized one-driver solution for your printing needs. It supports both color and monochrome printers.

This document provides instructions on how to install and use the UPD.

Note: For more information on the print driver version numbering format, see [“What is the UPD version numbering format?” on page 50](#).

Understanding the benefits

Versatility

The UPD is available in more than 27 languages, supporting more than 200 printer models that are connected locally or over a network.

All packages are Microsoft certified and digitally signed, and have been tested in the following:

- Cluster server environment
- Microsoft Terminal Server
- Citrix Presentation Server™ environment

The following emulation drivers are available on computers running on Microsoft Windows Vista operating system or later:

- PCL 5
- PCL XL
- PostScript 3

Bidirectional communication support

Installed settings are automatically detected and updated at installation time and at user request. This feature allows the print driver to use minimal network traffic.

Reduced cost for system support

With the UPD, only one package is used to manage testing and internal certification of print drivers. Time spent on server and workstation installation is reduced, and hard disk space usage is minimized.

Increased user efficiency

The UPD uses the same graphical user interface as product-specific drivers, enabling all print queues to have the same interface. Users can also create and save profiles for frequently used settings or use profiles created by a system administrator.

Corporate sustainability initiatives

To promote the environmental policies of an organization, the UPD lets administrators configure the following print queue settings:

- Two-sided printing
- Multiple-page printing (N-up)
- Toner darkness
- Other resource-saving measures

Supported Citrix Ready certifications

Starting in October 2012, the UPD has participated in the Citrix Ready Program as a Certified Product. Tests are conducted using the following:

Microsoft Windows Server 2016 x64 operating system

- Citrix Virtual Apps and Desktops 7 2103
- Citrix Virtual Apps and Desktops 7 2012
- Citrix Virtual Apps and Desktops 7 2009
- Citrix Virtual Apps and Desktops 7 2006
- Citrix Virtual Apps and Desktops 7 2003
- Citrix Virtual Apps and Desktops 7 1912 LTSR
- Citrix Virtual Apps and Desktops 7 1909
- Citrix Virtual Apps and Desktops 7 1906
- Citrix Virtual Apps and Desktops 7 1903
- Citrix Virtual Apps and Desktops 7 1811
- Citrix Virtual Apps and Desktops 1808
- Citrix XenApp 7.18
- Citrix XenApp 7.17
- Citrix XenApp 7.16
- Citrix XenApp 7.15
- Citrix XenApp 7.14
- Citrix XenApp 7.13
- Citrix XenApp 7.12
- Citrix XenApp 7.11
- Citrix XenApp 7.9
- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenDesktop 7.18
- Citrix XenDesktop 7.17
- Citrix XenDesktop 7.16

- Citrix XenDesktop 7.15
- Citrix XenDesktop 7.14
- Citrix XenDesktop 7.13
- Citrix XenDesktop 7.12
- Citrix XenDesktop 7.11
- Citrix XenDesktop 7.9
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6
- Citrix XenDesktop 7.5

Microsoft Windows Server 2012 R2 x64 operating system

- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6
- Citrix XenDesktop 7.5

Microsoft Windows Server 2012 x64 operating system

- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6
- Citrix XenDesktop 7.5

Microsoft Windows Server 2008 R2 x64 operating system

- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenApp 6.5

Before you begin

Supported operating systems

Microsoft Windows operating systems

The UPD is available in 32-bit and 64-bit (when applicable) versions of the following:

- Windows 11
- Windows 10
- Windows 8.1
- Windows 7
- Windows Vista
- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008

Notes:

- The UPD version 2.7.1 is the last release that supports the Windows XP operating system.
- Lexmark follows Microsoft Products Support Lifecycle Policy in providing software support for Windows operating systems. For more information on Microsoft Products Support Lifecycle Policy, visit the Microsoft website.

Microsoft Windows Cluster Servers

- Windows Server 2022
- Windows Server 2019 (64-bit)
- Windows Server 2016 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Windows Server 2008 R2
- Windows Server 2008 (32-bit and 64-bit)

Citrix implementations

Microsoft Windows Server 2016 operating system

- Citrix Virtual Apps and Desktops 7 2103
- Citrix Virtual Apps and Desktops 7 2012
- Citrix Virtual Apps and Desktops 7 2009
- Citrix Virtual Apps and Desktops 7 2006

- Citrix Virtual Apps and Desktops 7 2003
- Citrix Virtual Apps and Desktops 7 1912 LTSR
- Citrix Virtual Apps and Desktops 7 1909
- Citrix Virtual Apps and Desktops 7 1906
- Citrix Virtual Apps and Desktops 7 1903
- Citrix Virtual Apps and Desktops 7 1811
- Citrix Virtual Apps and Desktops 1808

Microsoft Windows Server 2012 R2 operating system

- Citrix XenApp 7.16
- Citrix XenApp 7.15
- Citrix XenApp 7.14
- Citrix XenApp 7.13
- Citrix XenApp 7.12
- Citrix XenApp 7.11
- Citrix XenApp 7.9
- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenDesktop 7.16
- Citrix XenDesktop 7.15
- Citrix XenDesktop 7.14
- Citrix XenDesktop 7.13
- Citrix XenDesktop 7.12
- Citrix XenDesktop 7.11
- Citrix XenDesktop 7.9
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6
- Citrix XenDesktop 7.5

Microsoft Windows Server 2012 operating system

- Citrix XenApp 7.16
- Citrix XenApp 7.15
- Citrix XenApp 7.14
- Citrix XenApp 7.13
- Citrix XenApp 7.12
- Citrix XenApp 7.11
- Citrix XenApp 7.9
- Citrix XenApp 7.8
- Citrix XenApp 7.7

- Citrix XenApp 7.6
- Citrix XenDesktop 7.16
- Citrix XenDesktop 7.15
- Citrix XenDesktop 7.14
- Citrix XenDesktop 7.13
- Citrix XenDesktop 7.12
- Citrix XenDesktop 7.11
- Citrix XenDesktop 7.9
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6

Microsoft Windows Server 2008 R2 operating system

- Citrix XenApp 7.16
- Citrix XenApp 7.15
- Citrix XenApp 7.14
- Citrix XenApp 7.13
- Citrix XenApp 7.12
- Citrix XenApp 7.11
- Citrix XenApp 7.9
- Citrix XenApp 7.8
- Citrix XenApp 7.7
- Citrix XenApp 7.6
- Citrix XenApp 7.5
- Citrix XenApp 6.5
- Citrix XenDesktop 7.16
- Citrix XenDesktop 7.15
- Citrix XenDesktop 7.14
- Citrix XenDesktop 7.13
- Citrix XenDesktop 7.12
- Citrix XenDesktop 7.11
- Citrix XenDesktop 7.9
- Citrix XenDesktop 7.8
- Citrix XenDesktop 7.7
- Citrix XenDesktop 7.6
- Citrix XenDesktop 7.5
- Citrix XenApp 6.0

Microsoft Windows Server 2008 R2 operating system

- Citrix XenApp 5.0

Novell operating systems

- Novell NetWare 6.5 Open Enterprise Server
- Novell Open Enterprise Server on SUSE Linux Enterprise Server (32-bit and 64-bit versions):
 - NOES 15 SP1 on SLES 11 SP4
 - NOES 11 SP3 on SLES 12 SP1
 - NOES 11 SP3 on SLES 11 SP4
 - NOES 2 SP3 on SLES 10 SP4

Note: These configurations support only Windows clients for Micro Focus iPrint for Windows 10, Windows 8.1, Windows 7, and Windows Vista operating systems.

Supported printers

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
Color laser multifunction products			
CX310 Series ¹ (CX310dn, CX310n, CX317dn)	✓	✓	✓
CX330 Series (CX331adwe)	✓	✓	✓
CX410 Series ¹ (CX410de, CX410e, CX417de)	✓	✓	✓
CX421adn	✓	✓	✓
CX430 Series (CX431adw)	✓	✓	✓
CX510 Series ¹ (CX510de, CX517de)	✓	✓	✓
CX522ade	✓	✓	✓
CX620 Series (CX622ade, CX622adhe)	✓	✓	✓
CX625 Series (CX625ade, CX625adhe, CX625adthe)	✓	✓	✓
CX725 Series (CX725de, CX725dhe, CX725dthe)	✓	✓	✓
CX727de	✓	✓	✓
CX820 Series (CX820de, CX820dtfe)	✓	✓	✓
CX825 Series (CX825de, CX825dte, CX825dtfe, CX825dtpe)	✓	✓	✓
CX827de	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
CX860 Series (CX860de, CX860dte, CX860dtfe, CX860dtpe)	✓	✓	✓
CX920de	✓	✓	✓
CX921de	✓	✓	✓
CX922de	✓	✓	✓
CX923dte	✓	✓	✓
CX923dxe	✓	✓	✓
CX924dte	✓	✓	✓
CX924dxe	✓	✓	✓
CX927de	✓	✓	✓
MC2325adw	✓	✓	✓
MC2425adw	✓	✓	✓
MC2500 Series (MC2535ade, MC2535adwe)	✓	✓	✓
MC2640adwe	✓	✓	✓
MC3200 Series (MC3224adwe, MC3224dwe, MC3224i)	✓	✓	✓
MC3300 Series (MC3326adwe, MC3326i)	✓	✓	✓
MC3400 Series (MC3426adw, MC3426i)	✓	✓	✓
X543, X544, X546	✓	✓	✓
X548, X548e	✓	✓	✓
X734de, X736de, X738de	✓	✓	✓
X746de, X748de, X748dte	✓	✓	✓
X762e	✓	✓	✓
X772e	✓	✓	✓
X782e, X782e XL	✓	✓	✓
X790, X792	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
X912	✓	X	✓
X925, XS925	✓	✓	✓
X940e, X945e	✓	✓	✓
X950de, X952de, X954de	✓	✓	✓
XC2100 Series ¹ (XC2130, XC2132)	✓	✓	✓
XC2200 Series (XC2235, XC2240)	✓	✓	✓
XC2300 Series (XC2326)	✓	✓	✓
XC4100 Series (XC4140, XC4143, XC4150, XC4153)	✓	✓	✓
XC4240	✓	✓	✓
XC6100 Series (XC6152de, XC6152dtfe, XC6153, XC6153de)	✓	✓	✓
XC8100 Series (XC8155de, XC8155dte, XC8160de, XC8160dte, XC8163)	✓	✓	✓
XC9235	✓	✓	✓
XC9245	✓	✓	✓
XC9265	✓	✓	✓
Mono laser multifunction products			
6500e	✓	✓	✓
MB2200 Series (MB2236adw, MB2236adwe, MB2236i)	✓	✓	X
MB2300 Series (MB2338adn, MB2338adw, MB2338dw)	✓	✓	✓
MB2400 Series (MB2442ade, MB2442adwe)	✓	✓	✓
MB2546ade	✓	✓	✓
MB2650ade	✓	✓	✓
MB2770adwhe	✓	✓	✓
MB3400 Series (MB3442adw, MB3442i)	✓	✓	✓
¹ Two-sided printing is supported by default. ² Custom forms, collation, booklet printing, and most print quality controls are not available. ³ Two-sided printing is not supported.			

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
MX310 Series ¹ (MX310dn, MX317dn)	✓	✓	✓
MX320 Series (MX321adn, MX321adw)	✓	✓	✓
MX410 Series ¹ (MX410de, MX417de)	✓	✓	✓
MX421ade	✓	✓	✓
MX330 Series (MX331adn)	✓	✓	✓
MX430 Series (MS431adn, MS431adw)	✓	✓	✓
MX510 Series ¹ (MX510de, MX511de, MX511dhe, MX517de)	✓	✓	✓
MX520 Series (MX521ade, MX522adhe, MX521adte, MX521de)	✓	✓	✓
MX610 Series ¹ (MX610de, MX611de, MX611dhe, MX617de)	✓	✓	✓
MX620 Series (MX622ade, MX622adhe, MX622adthe)	✓	✓	✓
MX6500e Series ¹ (MX6500e)	✓	✓	✓
MX710 Series ¹ (MX710, MX711, MX717de, MX718de)	✓	✓	✓
MX720 Series (MX721ade, MX721adhe, MX722ade, MX722adhe)	✓	✓	✓
MX725adve	✓	✓	✓
MX810 Series ¹ (MX810, MX811, MX812)	✓	✓	✓
MX820 Series (MX822ade, MX822adtfe, MX822adxe, MX824ade, MX824adtfe, MX824adxe, MX826ade, MX826adtfe, MX826adxe)	✓	✓	✓
MX910 Series ¹ (MX910de, MX911dte, MX912dxe)	✓	✓	✓
X203n, X204n	✓	✓	✓
X264dn, X363dn, X364dn, X364dw	✓	✓	✓
X340n ² , X342n ²	✓	✓	X
X422	✓	X	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
X463de, X464de, X466dte, X466dtwe	✓	✓	✓
X642e	✓	✓	✓
X644e, X646e	✓	✓	✓
X646ef	✓	✓	✓
X651de, X652de, X654dte, X656de, X658de	✓	✓	✓
X820e	✓	✓	✓
X830, X832	✓	✓	✓
X850e, X852e, X854e	✓	✓	✓
X860e, X862e, X864e	✓	✓	✓
XM1100 Series ¹ (XM1135, XM1140, XM1145)	✓	✓	✓
XM1200 Series (XM1242, XM1246)	✓	✓	✓
XM1300 Series (XM1342)	✓	✓	✓
XM3100 Series ¹ (XM3150)	✓	✓	✓
XM3250	✓	✓	✓
XM5100 Series ¹ (XM5163, XM5170)	✓	✓	✓
XM5200 Series ¹ (XM5263, XM5270)	✓	✓	✓
XM5300 Series (XM5365, XM5370)	✓	✓	✓
XM7100 Series ¹ (XM7155, XM7163, XM7170)	✓	✓	✓
XM7200 Series ¹ (XM7263, XM7270)	✓	✓	✓
XM7300 Series (XM7355, XM7365, XM7370)	✓	✓	✓
XM9100 Series ¹ (XM9145, XM9155, XM9165)	✓	✓	✓
Color laser printers			
C2240	✓	✓	✓
C2300 Series (C2326)	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
C2425dw	✓	✓	✓
C2500 Series (C2535dn, C2535dw)	✓	✓	✓
C3200 Series (C3224dw)	✓	✓	✓
C3300 Series (C3326dw)	✓	✓	✓
C3400 Series (C3426dw)	✓	✓	✓
C510	✓	X	✓
C520, C522, C524	✓	✓	✓
C530, C532, C534	✓	✓	✓
C540, C543, C544, C546	✓	✓	✓
C734, C736	✓	✓	✓
C746dn, C746dtn, C746n, C748de, C748dte, C748e	✓	✓	✓
C750	✓	X	✓
C752	✓	X	✓
C760, C762	✓	✓	✓
C770, C772	✓	✓	✓
C780, C782, C782 XL	✓	✓	✓
C790, C792	✓	✓	✓
C912	✓	X	✓
C920	✓	✓	✓
C925	✓	✓	✓
C935	✓	✓	✓
C950de	✓	✓	✓
C2100 Series ¹ (C2132)	✓	✓	✓
C9235	✓	✓	✓
CS310 Series ¹ (CS310dn, CS310n, CS317dn)	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
CS330 Series (CS331dw)	✓	✓	✓
CS410 Series ¹ (CS410de, CS410dn, CS410n, CS417dn)	✓	✓	✓
CS421dn	✓	✓	✓
CS430 Series (CS431dw)	✓	✓	✓
CS510 Series ¹ (CS510de, CS517de)	✓	✓	✓
CS521dn	✓	✓	✓
CS622de	✓	✓	✓
CS720de	✓	✓	✓
CS725de	✓	✓	✓
CS727de	✓	✓	✓
CS728de	✓	✓	✓
CS820 Series (CS820de, CS820dte, CS820dtfe)	✓	✓	✓
CS827de	✓	✓	✓
CS921de	✓	✓	✓
CS923de	✓	✓	✓
CS927de	✓	✓	✓
CS4150	✓	✓	✓
CS6160de	✓	✓	✓
Mono laser printers			
B2200 Series (B2236dw)	✓	✓	X
B2300 Series (B2338dn, B2338dw)	✓	✓	✓
B2400 Series (B2442dn, B2442dw)	✓	✓	✓
B2546dn	✓	✓	✓
B2650dn	✓	✓	✓
B2865dw	✓	✓	✓
¹ Two-sided printing is supported by default. ² Custom forms, collation, booklet printing, and most print quality controls are not available. ³ Two-sided printing is not supported.			

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
B3300 Series (B3340dw)	✓	✓	✓
B3440 Series (B3442dw)	✓	✓	✓
E120n ³	✓	✓	X
E220 ³	✓	X	X
E230, E232, E234, E234n	✓	X	X
E238, E240	✓	✓	X
E240n, E340, E342n	✓	✓	✓
E250d, E250dn, E350d, E352dn, E450dn	✓	✓	✓
E260, E260d, E260dn	✓	✓	✓
E320, E322	✓	X	✓
E321 ³ , E323 ³	✓	X	✓
E330, E332	✓	X	✓
E360d, E360dn	✓	✓	✓
E460dn, E460dw, E462dtn	✓	✓	✓
M1100 Series ¹ (M1140, M1140 Plus, M1145)	✓	✓	✓
M1300 Series (M1342)	✓	✓	✓
M3100 Series ¹ (M3150, M3150dn)	✓	✓	✓
M3250	✓	✓	✓
M5100 Series ¹ (M5155, M5163, M5163dn, M5170)	✓	✓	✓
M5200 Series (M5255, M5265, M5270)	✓	✓	✓
MS310 Series ¹ (MS310d, MS310dn, MS312dn, MS315dn, MS317dn)	✓	✓	✓
MS321dn	✓	✓	✓
MS330 Series (MS331dn)	✓	✓	✓
MS430 Series (MS431dn, MS431dw)	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
MS410 Series ¹ (MS410d, MS410dn, MS415dn, MS417dn)	✓	✓	✓
MS420 Series (MS421dn, MS421dw)	✓	✓	✓
MS510 Series ¹ (MS510dn, MS517dn)	✓	✓	✓
MS521dn	✓	✓	✓
MS610 Series ¹ (MS610de, MS610dn, MS617dn)	✓	✓	✓
MS620 Series (MS621dn, MS621dtn, MS622de, MS622dte)	✓	✓	✓
MS710 Series ¹ (MS710, MS711)	✓	✓	✓
MS725dvn	✓	✓	✓
MS810 Series ¹ (MS810, MS811, MS812, MS817dn, MS817n, MS818dn)	✓	✓	✓
MS820 Series (MS821n, MS821dn, MS821dtn, MS822de, MS823n, MS823dn, MS824de, MS824dtn, MS825dn, MS826de, MS826dtn)	✓	✓	✓
MS910 Series ¹ (MS911de)	✓	✓	✓
Optra S 1625	✓	X	X
Optra S 1855	✓	X	X
Optra S 2420	✓	X	X
Optra S 2450, Optra S 2455	✓	X	X
Optra T612, Optra T614	✓	X	✓
T420	✓	X	✓
T430	✓	X	✓
T520, T522	✓	X	✓
T620, T622	✓	X	✓
T630, T632, T634	✓	X	✓
T640, T642, T644	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Printer model	PCL 5 emulation driver	PCL XL emulation driver	PS emulation driver
T650, T652, T654, T656	✓	✓	✓
W820	✓	✓	✓
W840	✓	✓	✓
W850	✓	✓	✓

¹ Two-sided printing is supported by default.

² Custom forms, collation, booklet printing, and most print quality controls are not available.

³ Two-sided printing is not supported.

Supported connections

The UPD supports direct printing to the following on all supported operating systems:

- Branch Office Direct Printing
- IP ports
- USB ports
- Web services ports

Bidirectional communication is available with the following:

- Standard IP ports
- Lexmark Enhanced TCP/IP ports
- USB connections
- Web services ports
- Novell iPrint ports

Supported paper sizes and types

Note: Depending on your printer model and print driver, supported paper sizes and types may vary.

Supported paper sizes

- 12 x 18 inches
- A3 (297 x 420 mm)
- A4 (210 x 297 mm)
- A5 (148 x 210 mm)
- A6 (105 x 148 mm)
- B4 (257 x 364 mm)
- B5 (182 x 257 mm)
- Banner 1 (216 x 914 mm)
- Banner 2 (216 x 1219 mm)
- Banner 3 (297 x 914 mm)

- Banner 4 (297 x 1219 mm)
- Envelope (Monarch) 7 3/4 (3.9 x 7.5 inches)
- Envelope 9 (3.9 x 8.9 inches)
- Envelope 10 (4.1 x 9.5 inches)
- Envelope B5 (176 x 250 mm)
- Envelope C5 (162 x 229 mm)
- Envelope DL (110 x 220 mm)
- Executive (7.3 x 10.5 inches)
- Folio (8.5 x 13 inches)
- Hagaki (100 x 148 mm)
- Legal (8.5 x 14 inches)
- Letter (8.5 x 11 inches)
- Oficio (Mexico) (216 x 340 mm)
- Postcard (4 x 6 inches)
- SRA3 (320 x 450 mm)
- Statement (5.5 x 8.5 inches)
- Tabloid (11 x 17 inches)
- Universal (216 x 360 mm)

Supported paper types

- Bond
- Business card
- Card stock
- Colored
- Custom type 1
- Custom type 2
- Custom type 3
- Custom type 4
- Custom type 5
- Custom type 6
- ColorLok certified plain
- Envelope
- Glossy
- Glossy brochure
- Glossy photo
- Heavy
- Heavy glossy
- Heavy plain
- Iron-on transfer
- Labels
- Letterhead

- Lexmark PerfectFinish™ Photo
- Lexmark Photo
- Light
- Matte brochure
- Matte photo
- Photo greeting cards
- Plain
- Premium plain
- Preprinted
- Recycled
- Rough/Cotton
- Rough Envelope
- Transparency
- Vinyl labels

Supported languages

- Arabic
- Chinese (simplified)
- Chinese (traditional)
- Croatian
- Czech
- Danish
- Dutch
- English
- Finnish
- French
- German
- Greek
- Hungarian
- Italian
- Japanese
- Korean
- Norwegian
- Polish
- Portuguese (Brazilian)
- Romanian
- Russian
- Serbian
- Slovak
- Slovenian

- Spanish
- Swedish
- Turkish

Installing the Universal Print Driver

The UPD may be installed through the Windows Add Printer Wizard or through the Lexmark Universal Print Driver System Administrator Installation package available at the Lexmark website.

Updating the Universal Print Driver

The UPD version 2 works with UPD version 1. If the UPD is upgraded to version 2, then switching the print driver from the Advanced tab of the Printer Properties dialog box is not supported. The existing UPD version 1 print queues must be deleted, and then print queues using UPD version 2 must be created.

Installing the Universal Print Driver

- 1 From your computer, go to www.lexmark.com.
- 2 Click **Customer Support > Universal Print Driver**.
- 3 Depending on the operating system of your computer, download the appropriate print driver.

Notes:

- We recommend using the specific driver packages depending on whether you have a color or a monochrome printer. If you have a fleet of both color and monochrome printers, then we recommend installing both print drivers.
- For Windows computers, if you download the emulation-specific UPD, then download the Phone Book and Travel Print applications separately. Both applications install with the administrator package automatically.
- For more information on the full list of packages for Windows computers, see the Universal Print Driver White Paper section.

- 4 Follow the instructions on your computer screen.

Updating installed settings

- 1 From the Printer Properties dialog box, click the **Configuration** tab.
- 2 Click **Update Now-Ask Printer > OK**.

The print driver updates the status of all printer settings. If bidirectional communication is not active or is unavailable for the printer, then the print driver shows an error.

Understanding the Package Creation Utility

The Package Creation Utility lets you create customized installer packages that you can launch without user input, and integrate in your deployment solution. It generates print driver installation packages that automate the installation of print drivers with preconfigured settings.

Understanding Travel Print

This feature lets you search and select a network printer when sending a print job or a fax job from the host computer. It also lets you use multiple printers frequently without installing different print queues to support printers at multiple locations.

When Travel Print is used, a printer selection dialog box appears during the following:

- Sending a print job to the print driver
- Accessing the "Printing preferences" dialog box from a Windows program
- Accessing either the "Printing preferences" or the Printer Properties dialog boxes from the print driver

From the printer selection dialog box, in the Favorites tab, you can designate up to 10 frequently used printers. You can also search for printers using the printer host name or IP address, or by searching a subnet.

The printer search results show the following printer information:

- Model name
- Status
- IP address
- Color
- Two-sided printing capabilities

You can also use Travel Print to access the printer Embedded Web Server, allowing access to more printer information and configuration settings.

Notes:

- You need administrator rights to install and enable Travel Print. To install, run the Travel Print installation package or the UPD system administrator installation package. To obtain a copy of the installation packages, visit the Lexmark website.
- Travel Print is not intended for server-based printing. The print driver and Travel Print must be installed locally on host computers.
- If you want Travel Print to update the printer model and configuration settings, then enable the **Update Configuration from Printer** feature.

Enabling Travel Print

Travel Print is enabled by associating the print driver with the Travel Print port.

Note: The Travel Print port is available only if Travel Print is installed. To install, run the Travel Print installation package or the UPD system administrator installation package. To obtain a copy of the installation packages, visit the Lexmark website.

- 1 From the Printer Properties dialog box, click the **Ports** tab.
- 2 Select **Travel Print port**.

Note: To disable Travel Print, change the print driver port to any other printer port.

Understanding the Universal Print Driver

To see the UPD settings, from your computer, right-click a printer, and then select **Printing preferences**.

Understanding the Layout tab

The Layout tab determines the organizational attributes of a print job.

Note: Some settings are available only in some printer models and in some print drivers.

Setting	Description
Copies	<p>The following settings determine the number of copies to be printed and how the copies are organized:</p> <ul style="list-style-type: none"> • Number of Copies • Collate—The order in which pages are printed when printing multiple copies of a print job. For example, if you are printing two copies of a five-page print job, then the collated output is 1, 2, 3, 4, 5, 1, 2, 3, 4, 5. The non-collated output is 1, 1, 2, 2, 3, 3, 4, 4, 5, 5. <p>If the installed printer memory is insufficient to collate the output, then the collated output is generated for all pages that are stored in the printer memory. For example, the output can be 1, 2, 3, 1, 2, 3, 4, 5, 4, 5.</p> <ul style="list-style-type: none"> • Reverse page order—Depending on your printer model, the pages of a print job are printed in reverse order so that in the finished output, the last page appears on top. If you want the output back in normal page order, then manually reverse the pages.
Page Orientation	<p>The following settings determine the alignment of the paper or form when it is printed:</p> <ul style="list-style-type: none"> • Portrait—The orientation is vertical, where the page is taller than it is wide. • Landscape—The orientation is horizontal, where the page is wider than it is tall. • Rotate 180°—The page image is rotated to 180 degrees. This setting can be used with other orientation settings.
Print on Both Sides (Duplex)	<p>If this setting is selected, then the "Long edge" and "Short edge" settings specify which edge of the printed document is used as the binding edge. The following settings determine how long before the printer prints on the opposite side of a page:</p> <ul style="list-style-type: none"> • Normal (Default)—This setting uses the standard drying time. • Medium—This setting partially extends the drying time. • Extended—This setting uses the maximum drying time.

Setting	Description
Document Reading Order Preset	<p>The reading order of the print job that you are printing. Select either of the following:</p> <ul style="list-style-type: none"> • Left to right • Right to left <p>The reading order changes the preset value of the following:</p> <ul style="list-style-type: none"> • "Page order" setting in the N-up Settings dialog box • "Binding edge" setting in the Booklet Settings dialog box • Near and Far alignment settings in the Edit Watermarks dialog box
Page Layouts	<p>The following settings determine the layout of the page:</p> <ul style="list-style-type: none"> • Normal—Page layout settings are not applied to the print job. • Multiple pages per side (N-Up)—Multiple pages are printed on all sheets of paper. • Booklet—The print job is printed as a booklet. • Poster—The print job is printed in a larger format. • Mirror—A mirror image of the print job is printed. <p>Note: Some settings are available only in some printer models.</p>
Mixed Media Duplex Bitmap	<p>This feature shows a preview of the selected paper orientation and finishing settings.</p>

Notes:

- Program settings may override the settings in the Layout tab.
- Specifying multiple copies in both the Layout tab and the Windows-based program print dialog box may cause an error.
- To save the Collate setting, in the Configuration tab of the Printer Properties dialog box, select **Use printer-based**.

Understanding the Paper/Finishing tab

Notes:

- The finishing feature is available only in some printer models. For more information, see the printer *User's Guide*.
- To use the finishing settings, attach a finisher to the printer.

Setting	Description
Paper	<p>The following settings determine how paper is handled:</p> <ul style="list-style-type: none"> • Paper Size • Resizing Options—If “Fit to paper size” is selected, then the page image is automatically scaled to match a specific paper size. <p>Notes:</p> <ul style="list-style-type: none"> – Some Windows programs have a scaling setting. If the two settings are used at the same time, then an error may occur. – The scaling setting is available only in PostScript print drivers. <ul style="list-style-type: none"> • Manage Custom Sizes • Use full printable area—The page image is printed as close to the edge of the page. <p>Note: Depending on your printer model, the full printable area may vary.</p> <ul style="list-style-type: none"> • Other paper size with different orientation—The paper size that is loaded in a different orientation. This setting is recommended for two-sided print jobs, jobs that use the finisher, or both. <p>Note: To disable two-sided printing, select Off.</p> <ul style="list-style-type: none"> • Paper type • Paper source/tray—A list of supported paper types that can be used for different pages of a document. • Use multiple input options—A paper or other media from different paper trays are used in the same print job. <p>Note: This setting is available only in some print drivers.</p>
Finishing	<p>The following settings determine how finishing settings are used:</p> <ul style="list-style-type: none"> • Output Bin <p>Note: Depending on your printer model, supported output bins may vary. For a list of available output bins, see the printer <i>User's Guide</i>.</p> <ul style="list-style-type: none"> • Separator sheets—The location of the separator sheets. • Separator sheet source—The source of the separator sheets. • Offset—Print jobs are stacked in staggered sets in the output bin. • Staple—The number and placement of staples in the finished print job. • Hole Punch—The location and number of holes to be punched in the finished print job. • Fold—If this setting is enabled, then the finished print job is folded.

Understanding the Quality tab

The Quality tab determines the print and image quality settings of a print job.

Setting	Description
Print quality settings ¹	<p>The following settings determine the print quality of the print job:</p> <ul style="list-style-type: none"> • Draft—The print job is printed using the lowest resolution for faster printing. • Normal—The print job is printed using standard print quality settings. • Best—The print job is printed using the best possible resolution. • Custom—The print job is printed using the specified settings. <p>Note: To let the printer automatically select the appropriate print resolution settings, select Auto.</p>
Sharpen ¹	<p>The detail of the print image is sharpened by increasing the contrast around the edges of text and images.</p> <p>Note: If images that have had a sharpening effect applied by another application are printed using this setting, then an error may occur.</p>
Resolution ²	<p>The following settings determine the resolution of the print job:</p> <ul style="list-style-type: none"> • Dots per inch • Image quality (IQ) • Color quality (CQ)
Halftone	<p>The following settings determine how the halftone screen is used:</p> <ul style="list-style-type: none"> • Use printer settings • Normal—A standard halftone screen is used. • Detail—An alternate halftone screen designed for thin color lines and text is used.
Color Preference ¹	<p>The following settings determine the intensity of the colors in the print job:</p> <ul style="list-style-type: none"> • Auto • Natural—A moderate degree of intensity to printed colors is used. • Vivid—The highest degree of intensity to printed colors is used.
Advanced Color Options ¹	<p>The following settings determine the print mode for the print job:</p> <ul style="list-style-type: none"> • Auto • Use ICC test Chart Process—A special print mode based on ICC profiles is used.

¹ This setting is available only in inkjet printers.

² This setting is available only in laser printers.

³ This setting is available only in monochrome printers.

⁴ This setting is available only in color printers and in some print drivers.

⁵ This setting is available only in color printers.

⁶ This setting is available only in color laser printers.

⁷ This setting is available only in some print drivers.

Setting	Description
Gray Correction ³	<p>The following settings determine the brightness and contrast of the print job:</p> <ul style="list-style-type: none"> • Use printer settings • Off • Manual—This setting enables the brightness and contrast sliders.
Pixel Boost ³	<p>The following settings determine how the pixel density of a print job is enhanced:</p> <ul style="list-style-type: none"> • Use printer settings • Off • Fonts—The text in the print job is darkened. This setting affects only font data. • Horizontally—The horizontal lines of text and images in the print job are darkened. • Vertically—The vertical lines of text and images in the print job are darkened. • Both directions—Both horizontal and vertical lines of text and images in the print job are darkened.
Color Output ¹	The print job is printed either in color or in black and white.
Send color to printer ³	<p>Color images are printed in grayscale.</p> <p>Notes:</p> <ul style="list-style-type: none"> • When a print job is sent to the printer, the printer converts color images to monochrome grayscale. • This setting may slow printing performance.
Print Color Text as Black ³	All color texts are printed using only black ink.
Print text as black ⁴	The text is printed in black, but images are printed in color.
Print in black and white ⁵	The print job is printed in black and white.
Toner Darkness ²	<p>The following settings determine whether the print job is either lightened or darkened:</p> <ul style="list-style-type: none"> • Use printer settings • Use toner darkness—This setting enables the toner darkness slider.
<p>¹ This setting is available only in inkjet printers.</p> <p>² This setting is available only in laser printers.</p> <p>³ This setting is available only in monochrome printers.</p> <p>⁴ This setting is available only in color printers and in some print drivers.</p> <p>⁵ This setting is available only in color printers.</p> <p>⁶ This setting is available only in color laser printers.</p> <p>⁷ This setting is available only in some print drivers.</p>	

Setting	Description
ColorSaver ²	<p>The following settings determine whether the amount of toner that the printer uses is reduced when printing color images:</p> <ul style="list-style-type: none"> • Use printer settings • On • Off—Text is printed using the default amount of toner.
Edit Color Correction ⁶	<p>The following settings determine how the colors of the print job are adjusted to match the colors of other output devices or standard color systems:</p> <ul style="list-style-type: none"> • Use printer settings • Off • Auto—Depending on the object type and how color is specified, a different color conversion table is applied to all objects in the print job. • Manual—This setting enables the RGB and CMYK Manual color correction settings.
RGB Correction ⁶	<p>The following settings determine the brightness, contrast, and saturation of the print job:</p> <ul style="list-style-type: none"> • Use printer settings • Manual—This setting enables the brightness, contrast, and saturation sliders.
Edit Color Balance ⁶	<p>The following settings determine how the colors of the print job are adjusted by increasing or decreasing the amount of toner used for each color plane:</p> <ul style="list-style-type: none"> • Use printer settings • Manual—This setting enables the color balance sliders.
Edit Color Matching ⁶	<p>The following settings determine how the colors of the print job are matched to the colors on the monitor:</p> <ul style="list-style-type: none"> • Contrast (for images)—Color matching is applied to photographs and images. • Saturation (for business graphics)—Color matching is applied to charts and bright colors. • Colorimetric (for closest colors)—Color matching is applied to a print job that has a color that needs an exact match. <p>Note: To use this setting, you must have a printer that can reproduce the specified color.</p>

¹ This setting is available only in inkjet printers.

² This setting is available only in laser printers.

³ This setting is available only in monochrome printers.

⁴ This setting is available only in color printers and in some print drivers.

⁵ This setting is available only in color printers.

⁶ This setting is available only in color laser printers.

⁷ This setting is available only in some print drivers.

Setting	Description
Rich Black ⁷	<p>The following settings determine how black objects are made richer:</p> <ul style="list-style-type: none"> • On—During RGB-CMYK color conversion, either composite black for black or gray object is used. • Off—Depending on the selected color correction mode, either pure or composite black for black, or gray object is used.
<p>¹ This setting is available only in inkjet printers.</p> <p>² This setting is available only in laser printers.</p> <p>³ This setting is available only in monochrome printers.</p> <p>⁴ This setting is available only in color printers and in some print drivers.</p> <p>⁵ This setting is available only in color printers.</p> <p>⁶ This setting is available only in color laser printers.</p> <p>⁷ This setting is available only in some print drivers.</p>	

Understanding the Fax tab

The Fax tab determines the settings used with a fax job.

Notes:

- The fax setting is available only in PostScript emulation drivers. For information on installing the PostScript emulation driver, see the *Software and Documentation CD*.
- If the Fax tab is not available, then the fax setting is not installed.
- On UPD version 2.14 or later, the fax cover page can be printed using a 32-bit application on a computer running on a 64-bit operating system.

Setting	Description
Enable fax	If this setting is selected, then the fax feature of the print driver is turned on.
Always display settings prior to faxing	The Send Fax dialog box appears before a fax job is sent to let you verify all recipient fax numbers. If this setting is not selected, then the recipient fax number must be verified from the Fax Settings section in the Fax tab.
Fax Settings	<p>The following settings show the dialing and page information associated with a fax job:</p> <ul style="list-style-type: none"> • Fax number(s) Note: Fax numbers can be entered manually or selected from the phone book. • Dialing prefix—This setting is needed to access an outside line. If a dialing prefix is not required, then leave this field blank. • Fax name—The Windows operating system user ID of the computer where the fax job is sent from. • Paper size • Orientation

Setting	Description
Cover Page	<p>The following settings determine how the cover page is added to the outgoing fax job:</p> <ul style="list-style-type: none"> • Include cover page with fax • Include recipient information/comments • Include sender information <p>Note: To specify the sender information in the Fax Cover Settings dialog box, click Settings.</p>

Understanding the Watermark tab

The Watermark tab determines the use of watermarks in a print job.

Notes:

- This feature is available only in some print drivers.
- On UPD version 2.14 or later, the watermark name can be locked.

Setting	Description
Do not use watermarks	A watermark is not used in the print job.
Use the same watermark on all pages	A watermark appears on all pages of the print job.
Use a different watermark on the first page	<p>The watermark on the first page is different from the watermark on subsequent pages of the print job.</p> <p>Note: If two-sided printing (Duplex) is enabled, then the specified watermark is used on the front side of the first page.</p>
Use a different watermark on odd/even pages	Different watermarks appear on odd and on even pages of the print job.
Edit Watermarks	Lets you edit the watermark settings.

Understanding the Overlays tab

The Overlays tab determines the overlay used and how it is shown in a print job.

Note: This feature is available only in PCL and PCL XL emulation drivers, and in some printer models.

Setting	Description
Do not use overlays	An overlay is not used in the print job.
Use the same overlay on all pages	An overlay appears on all pages of the print job.
Use a different overlay on the first page	The overlay on the first page is different from the overlay on subsequent pages of the print job.
Use a different overlay on odd/even pages	Different overlays appear on odd and on even pages of the print job.

Setting	Description
Overlay placement	<p>The following settings determine the placement of the overlay in relation to the page images:</p> <ul style="list-style-type: none"> • Over the page's images—The overlay is printed on top of the text or graphic. • Under the page's images—The text or graphic is printed on top of the overlay.

Understanding the Print and Hold tab

The Print and Hold tab provides more settings for how and when a job is printed. When you use this feature, the printer holds the print job until the user releases it from the printer control panel. The Print and Hold tab provides multiple levels of security for held jobs.

Notes:

- This feature is available only in some printer models.
- For more information on releasing held jobs from the printer control panel, see the printer *User's Guide*.

Setting	Description
Use Print and Hold	If this setting is selected, then the Print and Hold feature is turned on.
Use logged-in user name	The Windows operating system for a user ID is queried, and then submitted as the default user name that is associated with the held print job.
User Name	The user name that is associated with a held print job.
Keep duplicate documents	Print jobs having the same user and job names are stored in the printer memory without being overwritten.
Confidential print	<p>Confidential print jobs are secured with a four-digit personal identification number (PIN). For more information on the allowed digits for the PIN, see your printer <i>User's Guide</i>.</p> <p>In the following scenarios, a dialog box requiring a four- to 16-digit PIN appears when releasing a print job:</p> <p>Note: Not specifying a PIN cancels the print job.</p> <ul style="list-style-type: none"> • The "Always prompt for PIN at print time" setting is not selected. • The "Always prompt for PIN at print time" setting is not selected and the PIN field is blank. <p>The dialog box requiring a four-digit PIN appears only on the following cases:</p> <ul style="list-style-type: none"> • The PIN is not specified. • An invalid PIN is specified. • The "Always prompt for PIN at print time" setting is selected. <p>Note: A confidential print job does not print until the PIN is entered and a user name is selected on the printer control panel.</p>
Verify print	The first copy of a multiple-copy print job is printed for inspection. The subsequent copies are held until they are canceled or released for printing.
Reserve print	The print job is stored in the printer memory for printing later.
Repeat print	The print job is released, and then a copy is stored in the printer memory for multiple printing later.

Understanding the Other Options tab

The Other Options tab determines the print driver settings that are not associated with a feature-specific tab.

Note: Some settings are available only in some printer models.

Use	To
TrueType Fonts	<p>Determine how TrueType fonts are printed, which character set to show, and whether to send information about printer-resident fonts to the application.</p> <ul style="list-style-type: none"> • Bitmaps (each character)—Create and send a bitmap to the printer for each different TrueType font character and point size in the document. • Bitmaps (full page)—Specify whether each page of the text and graphics in a document is saved as a bitmap and sent to the printer. • Outlines—Create and send an outline to the printer for each different TrueType font character in a document. • Automatically select—Let the print driver select a setting for the print job. This setting is available only in PostScript print driver. • Adobe Type 1 fonts—Print smaller TrueType fonts as bitmapped fonts, and print larger TrueType fonts as Adobe Type 1 outline fonts. This setting is available only in PostScript print driver. • Adobe Type 42 fonts—Print TrueType fonts as Adobe Type 42 hinted outline fonts. Compared to Adobe Type 1 outline fonts, Type 42 fonts may appear smoother and less jagged, especially at larger point sizes. This setting is available only in the PostScript print driver. <p>Note: This setting is available only if the printer supports a TrueType rasterizer.</p>
Image Compression	<p>Reduce the file size of print jobs that contain images. Reducing the file size improves printing performance.</p> <p>Note: This feature is available only in PCL XL emulation, Host-based Printing (HBP), and PostScript print drivers.</p> <p>For PCL XL emulation print drivers, select Enable Image Compression, and then use the Quality slider to adjust the image quality and compression level. Increasing the image quality decreases image compression.</p> <p>For PostScript print drivers, select how you want the images to be compressed.</p> <ul style="list-style-type: none"> • NONE—Disable image compression. • Lossless—Use Lempel-Ziv-Welch (LZW) compression to reduce file size without reducing image quality. Sometimes, the image may not be compressed to retain image quality. • High—Use JPEG compression to reduce file size by reducing image quality. To adjust the image quality and compression level, use the Quality slider. Increasing the image quality decreases image compression.

Use	To
Edit Job Accounting	<p>Open the Job Accounting preferences dialog box, and then configure the Job Accounting settings that are associated with the print job.</p> <ul style="list-style-type: none"> • Keep history for last 5 entries—Retain the last five unique entries for each Job Accounting setting. The settings are available in a menu for each setting in the Job Accounting dialog box during printing. • Prompt for account information at print time—Prompt the user for job accounting information during printing. • Do not prompt at print time. Use the following job accounting settings—Use the Job Accounting settings specified in the following fields: <ul style="list-style-type: none"> – Use logged-in user name—Use the Windows login ID of the current user, and then update the User Name/ID field with the retrieved information. – User Name/ID—The user name or user ID associated with the print job. – Account Code—The account code associated with the print job. – Department Code—The department code associated with the print job. <p>Note: Some settings are available only in some printer models.</p>
Metafile spooling	<p>Specify the format of the stored printing information on the disk while a print job is waiting to be printed.</p> <ul style="list-style-type: none"> • Automatic—The print driver determines which format results in the fastest overall print time for each job. • On—The print driver spools all jobs in metafile format. • Off—All print processor functions are disabled and the print driver no longer spools jobs in metafile (EMF) format.
Encryption option	<p>Job encryption—Lets you encrypt the entire job.</p> <p>Note: This setting is available only in some printer models.</p>
PostScript	<p>Control how the print driver produces the PostScript data that is sent to the printer.</p> <ul style="list-style-type: none"> • Optimize output format—Optimize the PostScript data stream that the print driver produces based on the selected format. Output formats include Speed, Portability, Encapsulated PostScript, and Archive. • Language level—Specify the level of PostScript to be used for the print job. Levels 1, 2, and 3 are available. • Print error information—Print information about any PostScript language errors encountered during printing. • Generate PostScript in driver—The print driver generates the PostScript language for the print job, rather than the program from which the document is printed. <p>Notes:</p> <ul style="list-style-type: none"> • These settings are available only in PostScript drivers. • When Fax is enabled, some functions are not available for use with the Encapsulated PostScript setting in the PostScript driver. • If Encapsulated PostScript is selected as the output format, then any printer-specific setting is removed. The output file can then be easily imported into other PostScript applications.

Use	To
PCL emulation	<p>Access the PCL emulation settings for both PCL 5 and PCL XL printer emulations.</p> <ul style="list-style-type: none">• Graphic Mode—Control how the printer processes and prints text and graphics in a document. <p>Note: This setting is available only in the PCL 5 emulation driver.</p>
Continuous Image	<p>Print pages without any space in between. The pages look like one continuous page.</p> <p>Note: This setting is available only in some print drivers.</p>

Frequently asked questions

What are the fixes done in UPD?

For more information, see the *Windows UPD Release Notes*.

What is the update for UPD version 2.15.2?

Security is enhanced to prevent attacker-controlled codes that are running with system privileges. For more information, see the [support site](#).

What are the benefits of using the UPD?

The main benefit is the amount of time saved in deploying and administering a large fleet of printers. The UPD can be used to print to multiple devices and minimize the number of drivers in the network environment.

Does the UPD support Plug'n'Play with devices?

Plug'n'Play is available on all supported devices. For a list of supported devices, see [“Supported printers” on page 23](#).

Is the UPD Microsoft certified?

The UPD version 2 for Microsoft Windows Vista operating system or later is certified for all Windows operating systems for which Microsoft offers certification programs.

Is Point and Print available with this driver?

Point and Print works the same way with the UPD as with any other product-specific driver.

What is a version number?

A version number is a unique number or set of numbers assigned to a specific release of a program, file, firmware, hardware, driver, or software.

What is the UPD version numbering format?

The UPD version number is divided into sets of numbers, separated by decimal points.

UPD version 2.6.0.0 and later versioning schema

For example, **x.y.xy.yy**
where:

- x** is the major version.
- y** is the minor version.
- xy** is the revision of the minor version.
- yy** is the private version.

Part	Description
Major version	The primary level of the UPD release. It increments when there are major functional and architectural updates.
Minor version	The secondary level of the UPD release. It increments when there are minor functional updates.
Revision of the minor version	The tertiary level of the UPD release. It increments when there are changes made on the minor functional updates.
Private version	The level of the UPD release for specific customers. Note: If the version value is 0 , then the UPD is released to the general public.

UPD version 2.x.5.0 and older versioning schema

For example, **y.x.xy.yy**

where:

- y** is the major version.
- x** is the data stream.
- xy** is the minor version.
- yy** is the private version.

Part	Description
Major version	The primary level of the UPD release. It increments when there are major functional and architectural updates.
Data stream	The data stream value. It varies depending on the following emulations: <ul style="list-style-type: none"> • PCL = 1 • PostScript = 2 • PCL XL = 3
Minor version	The secondary level of the UPD release. It increments when there are minor functional updates.
Private version	The level of the UPD release for specific customers. Note: If the version value is 0 , then the UPD is released to the general public.

Where can I find the version number of the print driver?

The version number is in the About tab of the Printer Properties dialog box.

Are model-specific print drivers still available?

Yes, while the UPD supports multiple printers and is equivalent to a model-specific print driver.

When must I use a model-specific print driver instead of the UPD?

If your printer is not in the list of supported printers, then use a model-specific print driver.

What printing modes are supported with the PCL Emulation UPD?

Raster and GL/2 modes are supported. Host-based printing is not supported.

Why is the Resource Administration tab missing in Printer Properties?

The Resource Administration tab is available in the previous versions of UPD. The functionality of this tab for the UPD version 2 is now available in the Printer Driver Configuration Utility.

Is the Printer Driver Configuration Utility supported?

The Printer Driver Configuration Utility is supported when using the Lexmark Universal Print Driver System Installation package. It is available in the Lexmark website.

Is the UPD based on Microsoft system driver technology?

The UPD version 2 for Microsoft Windows Vista operating system or later is based on Microsoft system driver technology.

Notices

Edition notice

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