

HP Officejet Pro X Series – Firmware Readme

Product Name(s): HP Officejet Pro X451dn
HP Officejet Pro X451dw
HP Officejet Pro X551dw
HP Officejet Pro X476dn
HP Officejet Pro X476dw
HP Officejet Pro X576dw

Model Number(s): CN459A
CN460
CN461
CN462
CN463
CN596A

This document contains new information for firmware revision 2022AR

REQUIREMENT BEFORE APPLYING THIS UPDATE: Device to be updated to firmware revision 2022AR MUST have been previously updated to revision 1409B (VR4.1) OR LATER prior to applying this firmware update.

ALL IMPROVEMENTS WITH PREVIOUS REVISIONS OF FIRMWARE ARE INCLUDED WITHIN THE MOST CURRENT REVISIONS.

Firmware revision is found by comparing the last six (6) characters of the full firmware revision. Example: LZP1CN2022AR

Enhancements and fixes provided with this firmware revision

**The following new functionality or features are provided by this firmware release:
Firmware Revision 2022AR**

ENHANCEMENTS:

- Network component update

**The following new functionality or features are provided by this firmware release:
Firmware Revision 1829BR**

ENHANCEMENTS:

- Important security enhancements

FIXES:

- Fixes issue when performing black only ID card copy in presentation mode

The following functionality or features were provided with the previous firmware release: Firmware Revision 1819AR

THIS VERSION REMOVES OBSOLETE DYNAMIC SECURITY FEATURES THAT MAY HAVE PREVENTED THE PRINTER FROM WORKING WITH CERTAIN INK SUPPLIES THAT CONTAIN NON-HP SECURITY CHIPS. PLEASE NOTE THAT EVEN WITH THIS CHANGE HP CANNOT GUARANTEE THE QUALITY OR RELIABILITY OF NON-HP SUPPLIES.

ENHANCEMENTS:

- Obsolete Dynamic Security features are removed. Please note that even with this change HP Inc. cannot guarantee the quality or reliability of non-HP supplies
- Updated support for DigiCert root security certificates
- Added support for SMB v2 and v3 in the HP Officejet Pro X476dn, X476dw, x576dw models.

FIXES:

- Fixes for issues related to the HP Access Control application
- RC4 encryption ciphers have been moved from the HIGH to the MEDIUM security list for https connections
- Fixes for CVE-2017-13081 “Krack” attacks against WPA and WPA2 wireless connection security
- Fixes for gSOAP vulnerabilities related to CVE-2017-9765
- Acknowledge that the Poodle vulnerability, CVE-2014-8730 was fixed as of firmware version 1502A.

KNOWN ISSUES:

- If restore network defaults is applied, SMB v1 protocol will be disabled. If desired, SMB v1 can be re-enabled using the printer’s embedded Web server.

The following functionality or features were provided with the previous firmware release: Firmware Revision 1640AR

- The previous Dynamic Security feature has been removed. Please note that even with this change HP Inc. cannot guarantee the quality or reliability of non-HP supplies.

The following functionality or features were provided with the previous firmware

release: Firmware Revision 1548AR

ENHANCEMENTS:

- Support for Scanning to PDF/A is now available
- Support for DHCP Option 77 has been implemented
- Separate printhead clean routine into 3 discrete steps.
- Added option to enable/disable 2mm margin when using A4 paper

FIXES:

- Fix for Fax archive to network folder issue when using symbols
- Unable to connect to sign-in server with "_" in server name
- Incorrect print output when set custom size & general office
- Resolved issue related to clock frequency when in sleep for Faster First Page mode
- The time format is changed back to 12-hour after power cycle with printer changed to a 24-hour format country
- Scan-to-Email fails to deliver emails for OXP authenticated users
- Resolved issue related to sleep mode in certain busy network environments
- Resolved issue related to being unable to connect to Protected Management Frame (PMF)capable routers
- Fix for PMF (Protected Management Frame)
- Win10 EWS issue with MS Edge
- Security: Related fixes for TLS 1.1 and 1.2
- Security: Depreciate RC4 encryption

The following functionality or features were provided with the previous firmware releases: Firmware Revisions 1502AR and 1502BR

ENHANCEMENTS:

- Job Tailgating – Added a support menu option to enable/disable Job Tailgating

FIXES:

- EAP-TLS (Extensible Authentication Protocol-Transport Layer Security) authentication – EAP-TLS no longer requires username and password
- Webscan – HP Embedded Web Server (EWS) Webscan feature no longer requires an Administrator password
- SAP SAP printing issue resolved
- Scan to Network Folder – Issue resolved with OS X 10.8, 10.9, and 10.10
- Scan to Network Folder – Windows sign in issue resolved when Kerberos cannot be used to connect to the server
- Scan to Email – When setting up the LDAP server, the search no longer fails when selecting either the Windows Credentials or Use MFP User's Credentials option under

Server Authentication Requirements

- Locked user accounts – Windows sign in issue resolved that was causing user accounts to be automatically locked in some environments
- OS X print jobs – OS X print jobs are no longer treated as Guest user accounts with Guest permissions
- JobAcct7 – Issue resolved where the application name tagged to JobAcct7 cannot be used to restrict color printing
- Sleep mode – Resolved an issue where printing was blocked after waking the printer and computer from sleep mode
- Manual IP settings – Issue resolved where users cannot set manual IP settings when disconnected from a network

The following functionality or features were provided with the previous firmware release: Firmware Revision: 1432D and 1432E

ENHANCEMENTS:

- Mopier mode support: Reduces network load on print jobs printing multiple copies (For example: With mopier mode disabled, five print jobs would be sent to the printer over the network, but with mopier mode enabled, only one job is sent over the network, which tells the printer to print five copies.)
- AirPrint 1.4 compatibility: Provides increased enterprise compatibility and security for AirPrint
- HP Embedded Web Server (EWS) re-design: The EWS re-design
- allows for increased flexibility in customizing the EWS Home screen and adds options for configuring new print features

The following enhancements apply only to HP Officejet Pro X476 and X576 models:

- Scan to Email HP Web Jetadmin support – HP Web Jetadmin is now able to manage the Scan to Email feature
- Native authentication and authorization – Users can be assigned a printer control panel log-in, which allows print feature restrictions to be set for each user
- Access Control: Tools are now available to restrict color printing using Access Controls for specific users
- PIN printing – PIN printing allows users (with the UPD driver) to specify that a print job should not be started until the user enters a PIN code at the printer control panel for printing privately or delaying a print job
- NTLM v2: Enables version 2 of the NTLM protocol, which is used to communicate with file servers for Scan to Network Folder configuration