



Technical white paper

Server Message Block (SMB) Protocol Support for HP Printers

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Introduction

The WannaCry ransomware malware brought increased focus on the Server Message Block (SMB) protocol. Microsoft has released security update [MS17-0101](#) that resolves the SMB version 1 vulnerability used by the WannaCry attack, however some customers are also disabling SMB version 1 completely in their network environment. This forces SMB clients to use later versions of the SMB protocol.

NOTE: Windows XP (or earlier) and Windows Server 2003 (and earlier) do not support SMB versions higher than SMB version 1. Customers running these operating systems should apply the security patches released from Microsoft to allow SMB version 1 availability.

The printers in each product category are listed by model number in a numerical order.

Printer dependencies on SMB version 1.0 only

Some printer features require the SMB protocol to function. These include:

- Send to Network Folder
- Send to SharePoint.
- Print servers may require the SMB protocol to share printer queues on the network.

Some HP printing devices do not support later versions of the SMB protocol. To continue to support these devices, SMB version 1.0 must be available.

Printer dependencies on SMB version 2.0 only

Some printer features require the SMB protocol to function. These include:

Some print devices do not support SMB version 2.0. Disabling SMB version 1.0 support on servers and other networked scan destinations will cause features on these devices requiring the SMB protocol to malfunction.

NOTE: Microsoft has released security update [MS17-0101](#) that resolves the SMB version 1.0 vulnerability used by the WannaCry attack. Microsoft has released security update [MS17-0101](#) that resolves the SMB version 1 vulnerability used by the WannaCry attack.

Printer dependencies on SMB version 3.0 only

When establishing a SMBv3 connection with a SMBv3-capable server endpoint, the data will be encrypted between the printer and the destination.

Some servers support being configured to only accept SMBv3 connections. SMBv1 and v2 connection requests will be dropped to ensure an encrypted connection.

HP Printers that support SMB

HP LaserJet Enterprise

The following printers support SMB versions 3.0, 2.0, and 1.0.

- HP LaserJet Enterprise M406
- HP LaserJet Enterprise M407
- HP LaserJet Enterprise MFP M430
- HP LaserJet Enterprise MFP M431
- HP Laser MFP 432fdn
- HP Color LaserJet Enterprise M455
- HP Color LaserJet Enterprise MFP M480
- HP LaserJet Enterprise M506
- HP LaserJet Enterprise M507 (n, dn, x, dng)
- HP LaserJet Enterprise 500 MFP M525
- HP LaserJet Enterprise M527
- HP LaserJet Enterprise MFP M528 (dn, f)
- HP LaserJet Enterprise Flow MFP M528 (c, z)
- HP LaserJet Enterprise Color 500 M551
- HP Color LaserJet Enterprise M552
- HP Color LaserJet Enterprise M553 (dn, dh, n, x)
- HP Color LaserJet Enterprise M554dn
- HP Color LaserJet Enterprise M555 (dn, x)
- HP LaserJet Enterprise 500 color MFP M575
- HP Color LaserJet Enterprise MFP M577 (dn, f)
- HP Color LaserJet Enterprise Flow MFP M577 (c, z)
- HP Color LaserJet Enterprise MFP M578 (dn, f)
- HP Color LaserJet Enterprise Flow MFP 578 (c, z)
- HP LaserJet Enterprise 600 M601
- HP LaserJet Enterprise 600 M602
- HP LaserJet Enterprise 600 M603
- HP LaserJet Enterprise M604
- HP LaserJet Enterprise M605
- HP LaserJet Enterprise M606
- HP LaserJet Enterprise M607 (n, dn)
- HP LaserJet Enterprise M608 (n, dn, x, nk)
- HP LaserJet Enterprise M609 (dn, x, dh)
- HP LaserJet Enterprise M610dn
- HP LaserJet Enterprise M611 (dn, x)
- HP LaserJet Enterprise M612 (dn, x)

- HP LaserJet Enterprise MFP M630
- HP LaserJet Enterprise MFP M631 (dn, z)
- HP LaserJet Enterprise Flow MFP M631h
- HP LaserJet Enterprise MFP M632 (h, fht)
- HP LaserJet Enterprise Flow MFP M632z
- HP LaserJet Enterprise MFP M633
- HP LaserJet Enterprise MFP M634 (dn, z)
- HP LaserJet Enterprise Flow MFP M634h
- HP LaserJet Enterprise MFP M635 (h, fht)
- HP LaserJet Enterprise Flow MFP M635z
- HP LaserJet Enterprise MFP M636fh
- HP LaserJet Enterprise Flow MFP M636z
- HP Color LaserJet Enterprise M651
- HP Color LaserJet Enterprise M652 (n, dn)
- HP Color LaserJet Enterprise M653 (dn, x, dh)
- HP Color LaserJet Enterprise X654dn
- HP Color LaserJet Enterprise MFP X677dn, X677s
- HP Color LaserJet Enterprise Flow MFP X677z, X677zs
- HP Color LaserJet Enterprise Flow MFP X677z+
- HP Color LaserJet M680
- HP LaserJet Enterprise MFP M681
- HP Color LaserJet Enterprise MFP M681 (f, dh)
- HP Color LaserJet Enterprise Flow MFP M681 (f, z)
- HP LaserJet Enterprise MFP M682
- HP Color LaserJet Enterprise Flow MFP M682z
- HP LaserJet Enterprise 700 M712
- HP LaserJet Enterprise MFP M725
- HP Color LaserJet Enterprise M750
- HP Color LaserJet Enterprise M751
- HP LaserJet Enterprise 700 color MFP M775
- HP Color LaserJet Enterprise MFP M776, M776dn
- HP Color LaserJet Enterprise Flow MFP M776z, M776zs
- HP LaserJet Enterprise M806
- HP LaserJet Enterprise flow M830z MFP
- HP LaserJet Enterprise 800 color M855
- HP Color LaserJet Enterprise M856
- HP LaserJet Enterprise 800 color MFP M880
- HP Color LaserJet CM4540 MFP
- HP LaserJet Enterprise M4555 MFP
- HP Color LaserJet CP5525

- HP Color LaserJet Enterprise 5700, 5700dn
- HP Color LaserJet Enterprise MFP 5800, 5800dn, 5800f
- HP Color LaserJet Enterprise Flow MFP 5800zf
- HP Color LaserJet Enterprise 6700, 6700dn
- HP Color LaserJet Enterprise 6701, 6701dn
- HP Color LaserJet Enterprise MFP 6800, 6800dn
- HP Color LaserJet Enterprise Flow MFP 5800zf
- HP Color LaserJet Enterprise Flow MFP 6800zf, 6800zfs
- HP Color LaserJet Enterprise Flow MFP 6800zfw+
- HP Color LaserJet Enterprise MFP 6801
- HP Color LaserJet Enterprise Flow MFP 6801zfw+
- HP Color LaserJet Enterprise X55745dn
- HP Color LaserJet Enterprise MFP X57945dn
- HP Color LaserJet Enterprise Flow MFP X57945z, X57945zs
- HP Color LaserJet Enterprise MFP X58045dn
- HP Color LaserJet Enterprise Flow MFP X58045z, X58045zs
- HP Color LaserJet Enterprise X65455dn, X65465dn
- HP Color LaserJet Enterprise MFP X67755dn
- HP Color LaserJet Enterprise Flow MFP X67755zs, X67755z+
- HP Color LaserJet Enterprise MFP X67765dn
- HP Color LaserJet Enterprise Flow MFP X67765zs, X67765z+
- HP LaserJet MFP M72625-M72630

HP LaserJet Managed

The following printers support SMB versions 3.0, 2.0, and 1.0.

- HP LaserJet Managed MFP E730dn
- HP LaserJet Managed MFP E731dn
- HP LaserJet Managed Flow MFP E731z
- HP Color LaserJet Managed MFP E785dn
- HP Color LaserJet Managed MFP E786dn
- HP LaserJet Managed MFP E826dn
- HP LaserJet Managed Flow MFP E826z
- HP Color LaserJet Managed MFP E877dn, E877z
- HP LaserJet Managed E40040
- HP LaserJet Managed MFP E42540
- HP Color LaserJet Managed E45028
- HP Color LaserJet Managed MFP E47528
- HP LaserJet Managed E50045
- HP LaserJet Managed E50145
- HP LaserJet Managed MFP E52545

- HP LaserJet Managed MFP E52645
- HP Color LaserJet Managed E55040
- HP Color LaserJet Managed E57540
- HP LaserJet Managed E60055, E60065, E60075f
- HP LaserJet Managed E60155, E60165, E60175
- HP LaserJet Managed MFP E62555, E62565, E62575
- HP LaserJet Managed MFP E62655, E62665
- HP Color LaserJet Managed E65050, E65060
- HP Color LaserJet Managed E65150, E65160
- HP Color LaserJet Managed MFP E67550, E67560
- HP Color LaserJet Managed MFP E67650
- HP LaserJet Managed MFP E72425, E72430
- HP LaserJet Managed MFP E72525, E72530, E72535
- HP LaserJet Managed MFP E73025dn, E73030dn
- HP LaserJet Managed MFP E73130dn, E73135dn, E73140dn
- HP LaserJet Managed Flow MFP E73130z, E73135z, E73140z
- HP Color LaserJet Managed E75245
- HP Color LaserJet Managed MFP E77422, E77428
- HP Color LaserJet Managed MFP E77822, E77825, E77830
- HP Color LaserJet Managed MFP E78323, E78325, E78330
- HP Color LaserJet Managed MFP E78523dn, E78528dn
- HP Color LaserJet Managed MFP E78625dn, E78630dn, E78635dn
- HP Color LaserJet Managed Flow MFP E78625z, E78630z, E78635z
- HP LaserJet Managed MFP E82540, E82550, E82560
- HP LaserJet Managed MFP E82650dn, E82660dn, E82670dn
- HP LaserJet Managed Flow MFP E82650z, E82660z, E82670z
- HP Color LaserJet Managed E85055
- HP Color LaserJet Managed MFP E87640, E87650, E87660
- HP Color LaserJet Managed MFP E87740dn, E87750dn, E87760dn, E87770dn
- HP Color LaserJet Managed Flow MFP E87740z, E87750z, E87760z, E87770z

Older HP LaserJets (Pre-FutureSmart)

The following printers support SMB versions 2.0 and 1.0 (unless otherwise noted).

NOTE: These products do not support SMB version 3.0.

- HP LaserJet Pro M1536 MFP
NOTE: This product does not support SMB version 2.0. Only SMB version 1.0 is supported.
- HP Color LaserJet CM2320 MFP
NOTE: This product does not support SMB version 2.0. Only SMB version 1.0 is supported.
- HP LaserJet M2727
NOTE: This product does not support SMB version 2.0. Only SMB version 1.0 is supported.
- HP LaserJet Enterprise P3015
- HP LaserJet M3027 Multifunction Printer
- HP LaserJet M3035 Multifunction Printer
- HP Color LaserJet CP3525
- HP LaserJet CM3530 Multifunction Printer
- HP LaserJet P4014
- HP LaserJet P4015
- HP Color LaserJet Enterprise CP4025
- HP LaserJet M4345 Multifunction Printer
- HP LaserJet P4515
- HP Color LaserJet Enterprise CP4525
- HP Color LaserJet CM4730 Multifunction Printer
- HP LaserJet M5025 Multifunction Printer
- HP LaserJet M5035 Multifunction Printer
- HP Color LaserJet CM6030 Multifunction Printer
- HP Color LaserJet CM6040 Multifunction Printer
- HP Color LaserJet CP6015
- HP LaserJet M9040 Multifunction Printer
- HP LaserJet M9050 Multifunction Printer

HP LaserJet Pro

SMB version support varies for the following printers. A checkmark indicates that the SMB version is supported.

HP LaserJet Pro Printer	SMB v1	SMB v2	SMB v3
HP LaserJet Pro MFP M130	✓	✓	
HP LaserJet Pro MFP M132	✓	✓	
HP LaserJet Pro MFP M134	✓	✓	
HP Color LaserJet Pro M180-M181 MFP	✓	✓	
HP LaserJet Pro M225	✓		
HP LaserJet Pro MFP M227	✓	✓	
HP LaserJet Pro MFP M230	✓	✓	
HP LaserJet Pro 200 color MFP M276	✓		
HP Color LaserJet Pro MFP M277	✓	✓	
HP Color LaserJet Pro M280-M281 MFP	✓	✓	
HP LaserJet Pro M305	✓	✓	✓
HP LaserJet Pro MFP M329	✓	✓	✓
HP LaserJet Pro 300 Color MFP M375	✓		
HP Color LaserJet Pro MFP M377	✓	✓	
HP LaserJet Pro M404	✓	✓	✓
HP LaserJet Pro M405	✓	✓	✓
HP LaserJet Pro 400 MFP M425	✓		
HP LaserJet Pro MFP M426	✓	✓	
HP LaserJet Pro MFP M427	✓	✓	
HP LaserJet Pro MFP M428	✓	✓	✓
HP LaserJet Pro MFP M429	✓	✓	✓
HP LaserJet Pro M435 MFP	✓		
HP Color LaserJet Pro M454	✓	✓	✓
HP Color LaserJet Pro MFP M476	✓		
HP Color LaserJet Pro MFP M477	✓	✓	
HP Color LaserJet Pro MFP M479	✓	✓	✓
HP LaserJet Pro M521 MFP	✓		
HP LaserJet Pro 500 color MFP M570	✓		
HP LaserJet Pro M1536 MFP	✓		

HP OfficeJet Enterprise

The following devices support SMB versions 2.0 and 1.0.

NOTE: These products do not support SMB version 3.0.

- HP OfficeJet Enterprise Color X555
- HP OfficeJet Enterprise Color MFP X585

HP OfficeJet Pro

The following devices support SMB versions 3.0, 2.0, and 1.0.

- HP Officejet Pro X451dn Printer
- HP Officejet Pro X451dw Printer
- HP Officejet Pro X476dn MFP
- HP Officejet Pro X476dw MFP
- HP Officejet Pro X551dw Printer
- HP Officejet Pro X576dw MFP
- HP OfficeJet Pro 8700
- HP OfficeJet Pro 8710
- HP OfficeJet Pro 8720
- HP OfficeJet Pro 8730
- HP OfficeJet Pro 8740

HP PageWide Enterprise

The following devices support SMB versions 3.0, 2.0, and 1.0.

- HP PageWide Enterprise Color 556
- HP PageWide Enterprise Color MFP 586
- HP PageWide Enterprise Color 765
- HP PageWide Enterprise Color MFP 780
- HP PageWide Enterprise Color MFP 785

HP PageWide Managed

The following devices support SMB versions 3.0, 2.0, and 1.0 (unless otherwise noted).

- HP PageWide Managed P55250dw
NOTE: This product does not support SMB version 3.0.
- HP PageWide Managed Color E55650
- HP PageWide Managed P57750 MFP
- HP PageWide Managed P75050
- HP PageWide Managed Color E75160
- HP PageWide Managed Color P75250
- HP PageWide Managed Color P77440
- HP PageWide Managed Color MFP E77650, E77660
- HP PageWide Managed MFP P77740, P77750, P77760
- HP PageWide Managed Color MFP P77940, P77950, P77960

HP PageWide Pro

The following devices support SMB versions 3.0, 2.0, and 1.0.

- HP PageWide 352dw Printer
- HP PageWide 377dw MFP
- HP PageWide Pro 452dw Printer
- HP PageWide Pro 477dw MFP
- HP PageWide Pro 552dw Printer
- HP PageWide Pro 577dw MFP
- HP PageWide Pro 750
- HP PageWide Pro Color 755
- HP PageWide Pro MFP 772
- HP PageWide Pro Color MFP 774
- HP PageWide Pro MFP 777
- HP PageWide Pro Color MFP 779

HP ScanJet and Digital Senders

The following devices support SMB versions 3.0, 2.0, and 1.0 (unless otherwise noted).

- HP ScanJet Pro 4500 fn1
- HP Digital Sender Flow 8500 fn2
- HP Scanjet Enterprise 8500 Document Capture Workstation
[NOTE: This product does not support SMB version 3.0.](#)
- HP ScanJet Enterprise Flow N9120 fn2
- HP 9250c Digital Sender

Reference

Refer the Microsoft Security Response Center website: "[Microsoft Security Bulletin MS17-010 – Critical.](#)"

Revision History

Revision Number	Revision Date	Revision notes
1.0	June 8, 2017	Initial Version
1.1	June 12, 2017	Added: HP ScanJet 4500 fn1.
1.2	June 19, 2017	Updated: "HP Printing devices supporting SMB version 1 only" description.
1.3	July 17, 2017	Added HP PageWide Pro models to SMB version 2 support. Added HP PageWide Managed models to SMB version 2 support.
1.4	July 21, 2017	Added devices supporting SMB version3. Edited order of SMB protocol listings.
1.5	August 30, 2017	Moved HP PageWide printers from SMB version 2 list to SMB version 1. <ul style="list-style-type: none">• HP PageWide Pro 750• HP PageWide Pro MFP 772, 777• HP PageWide Managed P750xx, P777xx
1.6	January 16, 2018	Added the following printers: <ul style="list-style-type: none">• HP Color LaserJet Pro M180-M181 MFP• HP Color LaserJet Pro M280-M281 MFP
1.7	June 15, 2018	Added to SMB version2 and SMB version3 support: HP Officejet Pro X476/X576 MFP.
1.8	July 13, 2018	Added to SMB version 2 and SMB version 3 support: <ul style="list-style-type: none">• HP Digital Sender Flow 8500 fn2• HP ScanJet Enterprise Flow N9120 fn2• HP ScanJet Pro 4500 fn1
1.9	July 20, 2018	Removed from SMB version1 support: HP ScanJet Pro 4500 fn1.

Revision Number	Revision Date	Revision notes
1.10	December 21, 2018	<p>Moved from SMB version 1 to SMB version 2 and version 3:</p> <ul style="list-style-type: none"> • HP PageWide 377dw MFP • HP PageWide MFP P57750 • HP PageWide Pro 477dw MFP • HP PageWide Pro 577dw MFP • HP PageWide Pro MFP 772, 777 • HP PageWide Managed P777xx • HP OfficeJet Pro 8700, 8710, 8720, 8730, 8740
2.0	May 17, 2019	<p>Added to SMB version 2 and SMB version 3 support:</p> <ul style="list-style-type: none"> • HP Color LaserJet Enterprise M507 • HP LaserJet Enterprise MFP M528 • HP Color LaserJet Enterprise M652, M653 • HP Color LaserJet Enterprise M751 • HP LaserJet Enterprise M607, M608, M609 • HP LaserJet Enterprise MFP M631, M632, M633 • HP LaserJet Enterprise MFP M681, M682 • HP LaserJet Managed E50045, E50145 • HP LaserJet Managed MFP E52645 • HP Color LaserJet Managed E55040, E57540 • HP LaserJet Managed E60055/65/75f • HP LaserJet Managed E60155 /65/75 • HP LaserJet Managed MFP E62555/65/ 75 • HP LaserJet Managed MFP E62655/65 • HP Color LaserJet Managed E65050/60 • HP Color LaserJet Managed E65150/60 • HP Color LaserJet Managed MFP E67550/60 • HP Color LaserJet Managed MFP E67650 • HP LaserJet Managed MFP E72425/30 • HP Color LaserJet Managed E75245 • HP Color LaserJet Managed MFP E77422 /28 • HP Color LaserJet Managed MFP E77822/ 25 / 30 • HP LaserJet Managed MFP E82540/50/60 • HP Color LaserJet Managed MFP E87640/50/ 60 • HP PageWide Managed Color E55650, E75160 • HP PageWide Managed Color MFP E77650/ 60 • HP PageWide Managed Color P75250/ P77440

Revision Number	Revision Date	Revision notes
2.1	June 14, 2019	<p>Added section "HP PageWide Enterprise Printers and multifunction printers" TOC section in SMB version 2 and SMB version 3.</p> <p>Removed from SMB version 1:</p> <ul style="list-style-type: none"> • HP Officejet Pro X451 Printer • HP Officejet Pro X551dw Printer <p>Added to SMB version 2 and SMB version 3:</p> <ul style="list-style-type: none"> • HP Officejet Pro X476/X576 MFP • HP Officejet Pro X451dn Printer • HP Officejet Pro X551dw Printer • HP PageWide 352dw Printer • HP PageWide Pro 452dw, 552dw Printer • HP PageWide Pro 750 <p>Moved to section "HP PageWide Enterprise Printers and multifunction printers" TOC section in SMB version 2 and SMB version 3:</p> <ul style="list-style-type: none"> • HP PageWide Enterprise Color 556, 765 • HP PageWide Enterprise Color MFP 586, 780, 785
2.2	November 25, 2019	<p>Added to SMB version 2 and SMB version 3</p> <ul style="list-style-type: none"> • HP LaserJet Pro M305, M404, M405 • HP LaserJet Pro MFP M329, M428, M429 • HP Color LaserJet Pro M454 • HP Color LaserJet Pro MFP M479
2.3	March 2, 2021	<p>Added printers to HP Printing devices supporting for SMB version 3. Includes LaserJet Enterprise and Managed Flow printers.</p>
2.4	March 7, 2022	<p>Migrated to new content management system.</p> <p>Added to HP Printing devices supporting SMB version 2 and version 3: HP Laser MFP 432fdn.</p>

Revision Number	Revision Date	Revision notes
2.5	August 10, 2022	<p>Added printers to HP Printing devices supporting SMB version 1, version 2, and version 3:</p> <ul style="list-style-type: none"> • HP LaserJet Enterprise M406, M407 • HP LaserJet Enterprise MFP M430, M431 • HP Color LaserJet Enterprise M455 • HP Color LaserJet Enterprise MFP M480 • HP LaserJet Managed E40040 • HP LaserJet Managed MFP E42540 • HP Color LaserJet Managed E45028 • HP Color LaserJet Managed MFP E47528 • HP Color LaserJet Managed MFP E785, E786, E877 • HP LaserJet Managed MFP E730, E731, E826
3.0	November 20, 2023	<p>Removed DeskJets, ENVY, and other consumer products. Updated and added newer released commercial printers.</p>

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alerts delivered directly to your desktop

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November 2023, Version 3.0

