

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value
Driver Version	6.4.0.22070
Media/Quality Setting	Default / Default
Simplex B&W Settings	print in grayscale, black only
Duplex B&W Settings	print in grayscale, black only
Setting N set count	Application
Collating function	Activated (application)
Paper Sending Direction	Default
Paper Size Setting	Default
Paper Feeding	Tray 2
Paper Exit	Standard Exit Tray
Output Orientation	Default (face down)
Duplexing Unit (Yes/No)	Yes
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	13.7	40.2
	Duplex	21.0	40.4
B&W	Simplex	11.5	40.2
	Duplex	18.5	40.4

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Print monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (1 set)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	14.74	16.27 (1 set)	33.64 (7 sets)	38.92 (42 sets)	40.28
	Simplex - Word	13.02	18.43 (1 set)	34.27 (7 sets)		40.26
	Simplex - Excel	13.21	18.18 (1 set)	34.12 (7 sets)		40.26
	Simplex - Average	13.7	17.6	34.0	38.9	40.2
	Duplex - Adobe Reader	21.53	11.14 (1 set)	28.22 (7 sets)		40.44
	Duplex - Word	20.77	11.54 (1 set)	29.38 (7 sets)		40.42
	Duplex - Excel	20.55	11.66 (1 set)	29.40 (7 sets)		40.44
	Duplex - Average	21.0	11.4	29.0		40.4
B&W mode (optional for color device)	Simplex - Adobe Reader	11.97	20.07 (1 set)	34.92 (7 sets)	39.11 (42 sets)	40.25
	Simplex - Word	11.18	21.46 (1 set)	35.49 (7 sets)		40.27
	Simplex - Excel	11.35	21.14 (1 set)	35.63 (7 sets)		40.25
	Simplex - Average	11.5	20.8	35.3	39.1	40.2
	Duplex - Adobe Reader	18.94	12.66 (1 set)	30.52 (7 sets)		40.46
	Duplex - Word	18.29	13.12 (1 set)	30.74 (7 sets)		40.44
	Duplex - Excel	18.07	13.28 (1 set)	30.82 (7 sets)		40.44
	Duplex - Average	18.5	13.0	30.6		40.4

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Print monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Built-in
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	13.7	40.2
	Duplex	21.2	40.4
B&W	Simplex	11.6	40.2
	Duplex	18.6	40.4

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4

	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	
Colour Mode	Simplex - Adobe Reader	14.36	16.72 (1 set)	33.43 (7 sets)	38.25 (42 sets)	40.24
	Simplex - Word	12.84	18.69 (1 set)	34.24 (7 sets)		40.26
	Simplex - Excel	13.79	17.42 (1 set)	34.15 (7 sets)		40.26
	Simplex - Average	13.7	17.6	33.9	38.2	40.2
	Duplex - Adobe Reader	21.75	11.02 (1 set)	27.80 (7 sets)		40.44
	Duplex - Word	20.75	11.56 (1 set)	29.50 (7 sets)		40.44
	Duplex - Excel	21.05	11.40 (1 set)	29.28 (7 sets)		40.44
	Duplex - Average	21.2	11.3	28.8		40.4
B&W mode (optional for color device)	Simplex - Adobe Reader	11.72	20.48 (1 set)	35.21 (7 sets)	39.32 (42 sets)	40.24
	Simplex - Word	11.70	20.52 (1 set)	35.73 (7 sets)		40.27
	Simplex - Excel	11.34	21.16 (1 set)	35.67 (7 sets)		40.25
	Simplex - Average	11.6	20.7	35.5	39.3	40.2
	Duplex - Adobe Reader	19.03	12.60 (1 set)	30.42 (7 sets)		40.44
	Duplex - Word	18.44	13.02 (1 set)	30.72 (7 sets)		40.46
	Duplex - Excel	18.30	13.10 (1 set)	29.52 (7 sets)		40.44
	Duplex - Average	18.6	12.9	30.2		40.4

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters

Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7-3770 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
	TCP/IP
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - Tabloid

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid

Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	13.7	21.6
	Duplex	21.0	21.6
B&W	Simplex	17.8	21.6
	Duplex	26.2	21.6

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: Tabloid

	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader	20.90	11.48 (1 set)	17.41 (4 sets)	20.52 (23 sets)	21.66
	Simplex - Word	19.50	12.31 (1 set)	17.97 (4 sets)		21.66
	Simplex - Excel	19.39	12.37 (1 set)	17.97 (4 sets)		21.65
	Simplex - Average	20.0	12.0	17.7	20.5	21.6
	Duplex - Adobe Reader	30.48	7.86 (1 set)	14.88 (4 sets)		21.68
	Duplex - Word	29.02	8.26 (1 set)	15.48 (4 sets)		21.66
	Duplex - Excel	28.12	8.52 (1 set)	15.50 (4 sets)		21.66
	Duplex - Average	29.3	8.2	15.2		21.6
B&W mode (optional for color device)	Simplex - Adobe Reader	18.54	12.94 (1 set)	18.36 (4 sets)	20.91 (23 sets)	21.67
	Simplex - Word	17.52	13.70 (1 set)	19.00 (4 sets)		21.65
	Simplex - Excel	17.14	14.01 (1 set)	18.85 (4 sets)		21.65
	Simplex - Average	17.8	13.5	18.7	20.9	21.6
	Duplex - Adobe Reader	27.72	8.64 (1 set)	15.64 (4 sets)		21.64
	Duplex - Word	25.25	9.50 (1 set)	16.38 (4 sets)		21.66
	Duplex - Excel	25.53	9.40 (1 set)	16.38 (4 sets)		21.66
	Duplex - Average	26.2	9.1	16.1		21.6

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters

Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7-3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCASHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCPIP	TCPIP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Temperature and Humidity	74 degF / 23 degC 16.6 %RH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	13.7	21.6
	Duplex	21.0	21.6
B&W	Simplex	17.7	21.6
	Duplex	26.1	21.6

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A3						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)		
Color Mode	Simplex - Adobe Reader	20.94	11.46 (1 set)	17.38 (4 sets)	20.50 (25 sets)	21.66
	Simplex - Word	19.32	12.42 (1 set)	18.03 (4 sets)		21.67
	Simplex - Excel	19.57	12.26 (1 set)	18.06 (4 sets)		21.65
	Simplex - Average	20.0	12.0 (1 set)	17.6 (4 sets)	20.5	21.6
	Duplex - Adobe Reader	30.50	7.86 (1 set)	14.86 (4 sets)		21.68
	Duplex - Word	28.42	8.44 (1 set)	15.46 (4 sets)		21.66
	Duplex - Excel	27.92	8.58 (1 set)	15.52 (4 sets)		21.66
	Duplex - Average	29.0	8.2 (1 set)	15.2 (4 sets)		21.6
B&W mode (optional for color device)	Simplex - Adobe Reader	18.67	12.85 (1 set)	18.50 (4 sets)	20.77 (23 sets)	21.66
	Simplex - Word	17.19	13.96 (1 set)	18.99 (4 sets)		21.66
	Simplex - Excel	17.17	13.97 (1 set)	18.90 (4 sets)		21.65
	Simplex - Average	17.7	13.5 (1 set)	18.7 (4 sets)	20.7	21.6
	Duplex - Adobe Reader	27.69	8.64 (1 set)	15.66 (4 sets)		21.66
	Duplex - Word	25.30	9.48 (1 set)	15.78 (4 sets)		21.64
	Duplex - Excel	25.28	9.48 (1 set)	16.40 (4 sets)		21.66
	Duplex - Average	26.1	9.2 (1 set)	15.9 (4 sets)		21.6

Notes
 1) All printing device and driver settings were default mode.
 2) For the B/W results, the print driver was set to "print in B/W".
 3) For more information see <http://www.hp.com/go/printerclaims>.
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 8350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Built-in
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test

HP Color LaserJet Managed MFP E87640DN

Printing device and settings		
Item	Value	
Test Start Date and Time	4/23/2017 12:57	
Tester	RM	
Machine name/model	HP Color LaserJet Managed MFP E87640DN	
Colour or B&W	Colour	
FW Version	2403300_006052	
Temperature and Humidity	74 degF / 23 degC 16.6 %RH	
Voltage	220V	
Test End Date and Time	9/15/2017 14:15	

Item	Value	
Mode and Setting	Driver Version	6.4.0.22070
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	print in grayscale, black only
	Duplex B&W Settings	print in grayscale, black only
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary

Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		A5 and Legal	
		FSOT (base)	ESAT (feature)
		FSOT (feature)	ESAT (base)
A5 Landscape Feed - Colour	Simplex	110%	100%
A5 Portrait Feed - Colour	Simplex	110%	100%
Legal - Colour	Simplex	77%	61%
Legal - Colour	Duplex	62%	61%
A5 Landscape Feed - B/W	Simplex	107%	100%
A5 Portrait Feed - B/W	Simplex	103%	100%
Legal - B/W	Simplex	72%	61%
Legal - B/W	Duplex	57%	61%

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) Test conducted with 8-paper Office Feature Performance file.
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.

Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test

Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
			A5 and Legal			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
Simplex A5 Landscape Feed - Colour	21.53	40.26	19.69	40.3	110%	100%
Simplex A5 Portrait Feed - Colour	21.53	40.26	19.71	40.3	110%	100%
Legal Simplex - Colour	21.53	40.26	28	24.8	77%	61%
Legal Duplex - Colour	21.53	40.26	34.79	24.8	62%	61%
Simplex A5 Landscape Feed - B/W	18.5	40.26	17.37	40.3	107%	100%
Simplex A5 Portrait Feed - B/W	18.5	40.26	18	40.3	103%	100%
Legal Simplex - B/W	18.5	40.26	25.75	24.8	72%	61%
Legal Duplex - B/W	18.5	40.26	32.86	24.8	57%	61%

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) Test conducted with 8-paper Office Feature Performance file.
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters

Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH18aC5HR ATA
	I/O Subsystem	Built-in
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP	10/100
Software	Operating System	Windows 7 64 Bit
	Printing Applications	Microsoft Office 2010
	Microsoft Office	Office 2010
	Adobe Reader	10
	Test files and location	Office category files, hard drive

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Default
Controller	unknown
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value
Mode and Setting	
PDL and driver version	6.4.0.22070
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Paper Path	
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: Letter		FPOT from Ready (seconds)
Color	Simplex	8.67
	Duplex	
B&W	Simplex	6.91
	Duplex	

- Notes
- 1) All printing device and driver settings w ere default mode.
 - 2) For the B/W results, the print driver w as set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts w ere collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	8.36	8.63	9.01	8.67	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			43.45		76 Minutes
	Recovery Time			34.4		
	FPOT from Off - Simplex			188.15		
	Warm-up Time			179.14		
B&W Mode	FPOT from Ready - Simplex	6.69	6.90	7.13	6.91	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			41.94		76 Minutes
	Recovery Time			34.8		
	FPOT from Off - Simplex			188.07		
	Warm-up Time			180.94		

- Notes
- 1) All printing device and driver settings w ere default mode.
 - 2) For the B/W results, the print driver w as set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts w ere collected after completion of the tests.
 - 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: LETTER							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	43.45	43.48	43.42	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	18.03	17.64	18.42	N/A	Adobe Reader	15 Minutes
B&W Mode	FPOT from Sleep	41.94	41.66	42.22	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	16.72	16.46	16.98	N/A	Adobe Reader	15 Minutes

- Notes
- 1) All printing device and driver settings w ere default mode.
 - 2) For the B/W results, the print driver w as set to "print in B/W".
 - 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Memory	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aC5HR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2 Adobe Reader 10.1.4
	Print Driver	6.4.0.22070

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

HP Color LaserJet Managed MFP E87640DN

Printing device and settings	
Test Start Date and Time	4/23/2017 12:57
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Default
Controller	unknown
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/15/2017 14:15

Item	Value
Mode and Setting	
PDL and driver version	6.4.0.22070
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
Paper	
Paper type setting	default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Paper Path	
Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4		FPOT from Ready (seconds)
Colour	Simplex	8.64
	Duplex	
B&W	Simplex	7.00
	Duplex	

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	8.39	8.63	8.89	8.64	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			43.78		76 Minutes
	Recovery Time			34.9		
	FPOT from Off - Simplex			180.43		
	Warm-up Time			171.55		
B&W Mode	FPOT from Ready - Simplex	6.77	6.87	7.36	7.00	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			41.93		76 Minutes
	Recovery Time			34.6		
	FPOT from Off - Simplex			184.58		
	Warm-up Time			177.22		

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Page counts were collected after completion of the tests.
 - 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	43.78	43.76	43.79	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes)	19.46	19.48	19.44	N/A	Adobe Reader	15 Minutes
	HP/Non ISO Test						
B&W Mode	FPOT from Sleep	41.93	42.08	41.78	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes)	17.29	17.00	17.58	N/A	Adobe Reader	15 Minutes
	HP/Non ISO Test						

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B/W results, the print driver was set to "print in B/W".
 - 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aC5HR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2 Adobe Reader 10.1.4
	Print Driver	6.4.0.22070

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP Color LaserJet Managed MFP E87640DN

Machine Setup Information	
Test Start Date and Time	4/23/2017 16:13
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	9/21/2017 14:17

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter		
	sFCOT	sESAT (ipm)
Color	6.4	40.3
B&W	5.9	40.3

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Color	A	6.44	9.31	33.15 22 sets	38.90 163 sets	40.25
	B					
	C					
	D					
	Average	6.4	9.3	33.2	38.9	40.3
B&W	A	5.90	10.31	34.37 22 sets	38.85 163 sets	40.25
	B					
	C					
	D					
	Average	5.9	10.3	34.4	38.9	40.3

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

HP Color LaserJet Managed MFP E87640DN

Machine Setup Information	
Test Start Date and Time	4/23/2017 16:13
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	9/21/2017 14:17

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4		
	sFCOT	sESAT (ipm)
Colour	7.0	40.3
B&W	5.3	40.3

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Colour	A	6.99	8.59	32.71 22 sets	39.20 163 sets	40.25
	B					
	C					
	D					
	Average	7.0	8.6	32.7	39.2	40.3
B&W	A	5.33	11.26	33.20 22 sets	39.03 163 sets	40.26
	B					
	C					
	D					
	Average	5.3	11.3	33.2	39.0	40.3

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.
 Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	9/20/2017 13:26
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	9/21/2017 12:09
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: LETTER						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1	15.29	15.70	32.68	38.67	40.27
			(1 set)	7 sets	43 sets	
	1:2	23.73	10.10	28.10	38.67	40.44
			(1 set)	7 sets	43 sets	
	2:2	23.19	10.34	27.80	38.67	40.42
			(1 set)	7 sets	43 sets	
B&W mode	1:1	13.29	18.06	34.34	38.97	40.25
				7 sets	43 sets	
	1:2	21.69	11.06	29.16	38.97	40.44
				7 sets	43 sets	
	2:2	21.29	11.26	29.08	38.97	40.44
				7 sets	43 sets	
Notes						
Reports located: http://www.hp.com/go/printerclaims						

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	9/20/2017 13:26
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
FW Version	2403300_006052
Configuration (options)	Not Specified
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Test End Date and Time:	9/21/2017 12:09
Pre-set Item	
Pre-set Value	
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default
Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: A4						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1	15.04	15.96	32.99	37.52	40.25
			(1 set)	8 sets	43 sets	
	1:2	23.66	10.14	29.14		40.46
			(1 set)	8 sets		
	2:2	23.12	10.38	29.02		40.44
			(1 set)	8 sets		
B&W mode	1:1	13.36	17.96	34.92	38.83	40.25
				8 sets	43 sets	
	1:2	21.78	11.02	29.96		40.46
				8 sets		
	2:2	21.41	11.20	30.36		40.44
				8 sets		

Notes
Reports located: <http://www.hp.com/go/printerclaims>

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	9/21/2017 15:03
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/22/2017 14:04

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode	Measurement result
			Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	107.80
			double sided	213.23
B&W	PDF 1.4	200	single sided	107.63
			double sided	211.54

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode	Measurement result		
			Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	65.82	9.36	17.00
			double sided	56.97	16.34	30.00
B&W	PDF 1.4	200	single sided	80.03	3.25	17.00
			double sided	96.64	5.66	30.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode	Measurement result		
			Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	36.65	97.29	107.8
			double sided	41.03	189.24	213.23
B&W	PDF 1.4	200	single sided	36.22	96.3	107.63
			double sided	42.27	187.55	211.54

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Letter

	File format version	Resolution	Scanning Mode	Measurement result			
			Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	22.90	65.82	9.36	17
			double sided	22.90	56.97	16.34	30
B&W	PDF 1.4	200	single sided	25.33	80.03	3.25	17
			double sided	26.66	96.64	5.66	30

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	BuiltIn
	USB Subsystem	USB 2.0/3.0
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	9/21/2017 15:03
Tester	RM
Machine name/model	HP_Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/22/2017 14:04

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	110.73
			double sided	222.01
B&W	PDF 1.4	200	single sided	110.78
			double sided	222.25

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	60.01	8.22	16.00
			double sided	65.44	15.61	31.00
B&W	PDF 1.4	200	single sided	80.00	3.05	16.00
			double sided	99.31	5.52	30.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	37.88	98.3	110.73
			double sided	49.03	197.57	222.01
B&W	PDF 1.4	200	single sided	37.82	98.34	110.78
			double sided	42.32	195.94	222.25

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	22.00	60.01	8.22	16
			double sided	21.90	65.44	15.61	31
B&W	PDF 1.4	200	single sided	25.33	80.00	3.05	16
			double sided	25.33	99.31	5.52	30

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	BuiltIn
	USB Subsystem	USB 2.0/3.0
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - Tabloid

Machine Setup Information	
Test Start Date and Time	9/21/2017 15:03
Tester	RM
Machine name/model	HP Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/22/2017 14:04

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Tabloid

	Scanning Mode		Measurement result	
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	62.44
			double sided	125.03
B&W	PDF 1.4	200	single sided	62.54
			double sided	125.30

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Tabloid

	Scanning Mode		Measurement result			
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	35.82	11.04	10.00
			double sided	42.55	18.81	18.00
B&W	PDF 1.4	200	single sided	41.89	3.79	10.00
			double sided	83.88	6.19	18.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: Tabloid

	Scanning Mode		Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	28.76	55.7	62.44
			double sided	38.76	111.16	125.03
B&W	PDF 1.4	200	single sided	28.26	55.25	62.54
			double sided	40.39	111.3	125.3

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Tabloid

	Scanning Mode		Measurement result				
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	16.57	35.82	11.04	10
			double sided	19.23	42.55	18.81	18
B&W	PDF 1.4	200	single sided	18.46	41.89	3.79	10
			double sided	26.66	83.88	6.19	18

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item	Value	
System	Computer name	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	System devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	BuiltIn
	USB Subsystem	USB 2.0/3.0
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
Others	No use	

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A3

Machine Setup Information	
Test Start Date and Time	9/21/2017 15:03
Tester	RM
Machine name/model	HP_Color LaserJet Managed MFP E87640DN
Colour or B&W	Colour
Configuration (options)	Default
Temperature and Humidity	74 degF / 23 degC 16.6 %rH
Voltage	220V
Test End Date and Time	9/22/2017 14:04

Mode and Setting	Preset Item	Preset Value
		Scanning resolution
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF	Paper feed direction	default (long edge)
Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	63.61
			double sided	127.14
B&W	PDF 1.4	200	single sided	63.57
			double sided	127.38

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	36.95	10.00	10.00
			double sided	45.37	17.89	19.00
B&W	PDF 1.4	200	single sided	47.52	3.57	10.00
			double sided	84.70	5.84	18.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	29.85	56.96	63.61
			double sided	41.45	113.33	127.14
B&W	PDF 1.4	200	single sided	28.88	56.91	63.57
			double sided	40.57	112.88	127.38

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A3

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	200	single sided	18.46	36.95	10.00	10
			double sided	20.90	45.37	17.89	19
B&W	PDF 1.4	200	single sided	21.81	47.52	3.57	10
			double sided	25.33	84.70	5.84	18

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
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