

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Managed MFP E82650dn	
Printing device and settings	
Test Start Date and Time	5/3/2023 9:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 32.1 %RH
Voltage	220V
Test End Date and Time	5/4/2023 15:40

Item	Value
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
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/m ²
Paper Size	LTR / A4 / LGL / LGR / A3
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	10.02	50.39
	Duplex	15.44	50.46

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010.

Detailed Report: LETTER						
Office Category	Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	10.21	23.51 (1 set)	44.09 (8 sets)	49.30 (52 sets)	50.42
	Simplex - Word	10.26	23.38 (1 set)	43.56 (8 sets)		50.39
	Simplex - Excel	9.59	25.02 (1 set)	44.57 (8 sets)		50.38
	Simplex - Average	10.02	23.97 (1 set)	44.07 (8 sets)	49.3	50.39
	Duplex - Adobe Reader	15.90	15.08 (1 set)	38.98 (8 sets)		50.48
	Duplex - Word	15.54	15.44 (1 set)	39.18 (8 sets)		50.46
	Duplex - Excel	14.88	16.10 (1 set)	39.66 (8 sets)		50.46
	Duplex - Average	15.44	15.54 (1 set)	39.27 (8 sets)		50.46

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010.

Test System Parameters	
Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 1700K@3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	N/A
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Managed MFP E82650dn	
Printing device and settings	
Test Start Date and Time	5/3/2023 9:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 32.1 %RH
Voltage	220V
Test End Date and Time	5/4/2023 15:40
Item	
Value	
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
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 gm ²
Paper Size	LTR / A4 / LGL / LGR / A3
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	10.04	50.38
	Duplex	15.55	50.42
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 https://www.hp.com/us-en/printers/printing-speed-test-reports.html .			
4) Port monitor not configured to follow device if the IP address changes.			
5) Productivity has been determined in accordance to ISO/IEC 24734:2010			

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)	1 set + 4min (# of sets)		
Colour Mode	Simplex - Adobe Reader		(1 set)				
	Simplex - Word		(1 set)				
	Simplex - Excel		(1 set)				
	Simplex - Average						
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A	
	Duplex - Word	N/A	N/A	N/A		N/A	
	Duplex - Excel	N/A	N/A	N/A		N/A	
	Duplex - Average	N/A	N/A	N/A		N/A	
B&W mode (optional for color device)	Simplex - Adobe Reader	10.27	23.37 (1 set)	43.72 (8 sets)	49.32 (53 sets)	50.38	
	Simplex - Word	10.27	23.36 (1 set)	43.81 (8 sets)		50.37	
	Simplex - Excel	9.58	25.04 (1 set)	44.57 (8 sets)		50.39	
	Simplex - Average	10.0	23.92 (1 set)	44.03 (8 sets)	49.3	50.38	
	Duplex - Adobe Reader	16.01	14.98 (1 set)	36.90 (8 sets)		50.44	
	Duplex - Word	15.60	15.38 (1 set)	39.08 (8 sets)		50.42	
	Duplex - Excel	15.04	15.98 (1 set)	39.60 (8 sets)		50.42	
	Duplex - Average	15.6	15.44 (1 set)	39.19 (8 sets)		50.42	
	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 https://www.hp.com/us-en/printers/printing-speed-test-reports.html .							
4) Port monitor not configured to follow device if the IP address changes.							
5) Productivity has been determined in accordance to ISO/IEC 24734:2010							

Test System Parameters	
Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 1700K@3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	N/A
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - Tabloid

Printing device and settings	
Test Start Date and Time	5/3/2023 9:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 32.1 %rH
Voltage	220V
Test End Date and Time	5/4/2023 15:40
Item	Value
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
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 gm/2
Paper Size	LTR / A4 / LGL / LGR / A3
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Tabloid			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
B&W	Simplex	16.39	26.89
	Duplex	22.65	26.94

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Detailed Report: Tabloid						
Office Category	Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	16.60	14.45 (1 set)	22.91 (5 sets)	26.10 (29 sets)	26.89
	Simplex - Word	16.98	14.14 (1 set)	22.77 (5 sets)		26.89
	Simplex - Excel	15.58	15.40 (1 set)	23.32 (5 sets)		26.89
	Simplex - Average	16.39	14.66 (1 set)	23.00 (5 sets)	26.10	26.89
	Duplex - Adobe Reader	23.66	10.12 (1 set)	20.20 (5 sets)		26.94
	Duplex - Word	22.78	10.52 (1 set)	20.52 (5 sets)		26.94
	Duplex - Excel	21.50	11.14 (1 set)	20.84 (5 sets)		26.94
	Duplex - Average	22.65	10.59 (1 set)	20.52 (5 sets)		26.94

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters	
Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 1700K@3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	N/A
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A3

HP LaserJet Managed MFP E82650dn

Printing device and settings	
Test Start Date and Time	5/3/2023 9:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 32.1 %rH
Voltage	220V
Test End Date and Time	5/4/2023 15:40

Item	Value
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
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	LTR / A4 / LGL / LGR / A3
Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A3			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	10.02	26.88
	Duplex	15.44	26.94

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Detailed Report: A3						
Office Category	Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	16.62	14.44 (1 set)	22.92 (5 sets)	26.11 (29 sets)	26.87
	Simplex - Word	17.05	14.07 (1 set)	22.75 (5 sets)		26.90
	Simplex - Excel	15.61	15.37 (1 set)	23.28 (5 sets)		26.88
	Simplex - Average	16.43	14.62 (1 set)	22.98 (5 sets)	26.11	26.88
	Duplex - Adobe Reader	23.72	10.10 (1 set)	20.18 (5 sets)		26.94
	Duplex - Word	22.84	10.50 (1 set)	20.52 (5 sets)		26.94
	Duplex - Excel	21.55	11.12 (1 set)	20.50 (5 sets)		26.94
	Duplex - Average	22.71	10.57 (1 set)	20.53 (5 sets)		26.94

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if the IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters	
Item	Value
Computer	HP Z2 Tower G8 Workstation
Processor	Intel Core i7 1700K@3600GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	16 GB
Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	N/A
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/100
Operating System	Win 10 Enterprise 64 Bit (21H2)
Printing Applications	Microsoft Office Word 2021
	Acrobat Reader DC
Print Driver	Microsoft Office Excel 2021
Print Driver	Not Specified
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

Printing device and settings	
Test Start Date and Time	5/3/2023 9:19
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Temperature and Humidity	76 degF / 24 degC 32.1 %rH
Voltage	220V
Test End Date and Time	5/4/2023 15:40

Item	Value
Driver Version	HP Smart Universal Printing (V4), 2.7.1.1569
Media/Quality Setting	Default / Default
Simplex B&W Settings	Print in Grayscale
Duplex B&W Settings	Print in Grayscale
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	LTR / A4 / LGL / LGR / A3
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	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Simplex, Colour	Simplex		
A5, Portrait Feed, Duplex, Colour	Duplex		
Legal, Simplex, Colour	Simplex		
Legal, Duplex, Colour	Duplex		
A4, 1200 dpi, Simplex, Colour	Simplex		
Letter, 1200 dpi, Simplex, Colour	Simplex		
A4, HP High Speed, Simplex, Colour	Simplex		
Letter, HP High Speed, Simplex, Colour	Simplex		
A4, General Office, Simplex, Colour	Simplex		
Letter, General Office, Simplex, Colour	Simplex		
A5, Landscape Feed, Simplex, B/W	Simplex	92%	100%
A5, Portrait Feed, Simplex, B/W	Simplex		
A5, Portrait Feed, Duplex, B/W	Duplex		
Legal, Simplex, B/W	Simplex	65%	60%
Legal, Duplex, B/W	Duplex	53%	60%
A4, 1200 dpi, Simplex, B/W	Simplex		
Letter, 1200 dpi, Simplex, B/W	Simplex		
A4, General Office, Simplex, B/W	Simplex		
Letter, General Office, Simplex, B/W	Simplex		

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

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			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ppm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour						
A5, Portrait Feed, Simplex, Colour						
A5, Portrait Feed, Duplex, Colour						
Legal, Simplex, Colour						
Legal, Duplex, Colour						
A4, 1200 dpi, Simplex, Colour						
Letter, 1200 dpi, Simplex, Colour						
A4, HP High Speed, Simplex, Colour						
Letter, HP High Speed, Simplex, Colour						
A4, General Office, Simplex, Colour						
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	15.16	50.4	16.59	50.4	92%	100%
A5, Portrait Feed, Simplex, B/W	15.16	50.4				
A5, Portrait Feed, Duplex, B/W	15.16	50.4				
Legal, Simplex, B/W	15.06	50.39	23.42	30.3	65%	60%
Legal, Duplex, B/W	15.06	50.39	28.55	30.3	53%	60%
A4, 1200 dpi, Simplex, B/W	15.16	50.4				
Letter, 1200 dpi, Simplex, B/W	15.06	50.39				
A4, General Office, Simplex, B/W	15.16	50.4				
Letter, General Office, Simplex, B/W	15.06	50.39				

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 4) Port monitor not configured to follow device if IP address changes.
 - 5) Productivity has been determined in accordance to ISO/IEC 24734:2010

Test System Parameters		
Item	Value	
Test System	Computer	HP Z2 Tower GB Workstation
	Processor	Intel Core i7 11700K@3600GHZ
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	NA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCPI/P (CP)/P 10/1000	
Software	Operating System	Win 10 Enterprise 64 Bit (21H2)
	Printing Applications	Microsoft Office Word 2021 Acrobat Reader DC Microsoft Office Excel 2021
	Print Driver	Not Specified
	Test files and location	Office category files, hard drive

ISO/IEC 17629:2013 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER
HP LaserJet Managed MFP E82650dn

Printing device and settings	
Test Start Date and Time	5/2/2023 10:21
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	76 degF / 25 degC 30.6 %rH
Voltage	220V
Test End Date and Time	6/22/2023 11:22

Item	Value
Mode and Setting	
PDL and driver version	HP Smart Universal Printing (V4), 2.7.1.1569
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)
B&W	Simplex	6.01
	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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
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.
7) Productivity has been determined in accordance to ISO/IEC 17629:2010

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					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.53	5.81	5.68	6.01	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			10.84		76 Minutes
	Recovery Time			5.2		
	FPOT from Off - Simplex			87.58		
	Warm-up Time			81.90		

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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
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.
7) Productivity has been determined in accordance to ISO/IEC 17629:2010

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	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	10.84	10.86	10.82	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	9.16	9.13	9.18	N/A	Adobe Reader	15 Minutes

Test System Parameters		
Item	Value	
Test System	Computer	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop system devices, default system BIOS
	System Board	
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	
Software	Operating System	Win 10 Enterprise 64 Bit (21H2)
	Printing Applications	Microsoft Office 2021 Adobe Reader DC
	Print Driver	HP Smart Universal Printing (V4), 2.7.1.1569

ISO/IEC 17629:2013 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Managed MFP E82650dn

Printing device and settings		
Test Start Date and Time	5/2/2023 10:21	
Tester	LEP	
Machine name/model	HP LaserJet Managed MFP E82650dn	
Colour or B&W	B&W	
FW Version	2506068_035016	
Configuration (options)	Default	
Controller	NA	
Printing device page count	Not Specified	
Printing supplies page count	Not Specified	
Temperature and Humidity	76 degF / 25 degC 30.6 %rH	
Voltage	220V	
Test End Date and Time	6/22/2023 11:22	

Item	Value
Mode and Setting	
PDL and driver version	HP Smart Universal Printing (V4), 2.7.1.1569
Print Quality mode	default
B&W settings	default
Paper	
Paper feed orientation	Short Edge
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		
		F POT from Ready (seconds)
B&W	Simplex	6.02
	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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 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.
 - 7) Productivity has been determined in accordance to ISO/IEC 17629:2010

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					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			N/A		
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	6.54	5.83	5.68	6.02	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			10.85		76 Minutes
	Recovery Time			5.2		
	FPOT from Off - Simplex			89.26		
	Warm-up Time			83.58		

- 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 <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 - 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.
 - 7) Productivity has been determined in accordance to ISO/IEC 17629:2010

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	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Sleep (15 minutes) HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	
B&W Mode	FPOT from Sleep	10.85	10.83	10.86	N/A	Adobe Reader	76 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	9.55	9.41	9.68	N/A	Adobe Reader	15 Minutes

Test System Parameters		
Item	Value	
Test System	Computer	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop system devices, default system BIOS
	System Board	16 GB
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builitin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Win 10 Enterprise 64 Bit (21H2)
	Printing Applications	Microsoft Office 2021
	Print Driver	Adobe Reader DC HP Smart Universal Printing (V4), 2.7.1.1569

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP LaserJet Managed MFP E82650dn

Machine Setup Information	
Test Start Date and Time	5/4/2023 11:16
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	76 degF / 25 degC 46.4 %rH
Test End Date and Time:	11/2/2023 10:27

	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)
B&W	3.72	50.37

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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	
B&W	A	3.72	16.12	43.71 29 sets	49.67 220 sets	50.37
	B					
	C					
	D					
	Average		3.72	16.12	43.71	49.67

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

HP LaserJet Managed MFP E82650dn

Machine Setup Information	
Test Start Date and Time	5/4/2023 11:16
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	76 degF / 25 degC 46.4 %rH
Test End Date and Time:	11/2/2023 10:27

	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)
B&W	3.66	50.39

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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	
B&W	A	3.66	16.39	45.46 29 sets	49.69 220 sets	50.39
	B					
	C					
	D					
	Average	3.66	16.39	45.46	49.69	50.39

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>. 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

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	5/8/2023 9:38
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	77 degF / 25 degC 35.2 %rH
Test End Date and Time:	11/3/2023 18:26
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	LTR / A4 / LGL / LGR / A3

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		(1 set)			
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	9.74	24.65	44.53 8 sets	49.21 53 sets	50.42
	1:2	16.14	14.88	38.74 8 sets	47.98 52 sets	50.42
	2:2	15.99	15.00	38.94 8 sets	48.28 52 sets	50.42
Notes						
Reports located: https://www.hp.com/us-en/printers/printing-speed-test-reports.html .						
Productivity has been determined in accordance to ISO/IEC 24735:2010						

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	5/8/2023 9:38
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
FW Version	2506068_035016
Configuration (options)	Not Specified
Temperature and Humidity	77 degF / 25 degC 35.2 %rH
Test End Date and Time:	11/3/2023 18:26
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	LTR / A4 / LGL / LGR / A3

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		(1 set)			
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	9.67	24.81	44.64 8 sets	49.41 52 sets	50.39
	1:2	16.11	14.88	38.80 8 sets	48.24 52 sets	50.44
	2:2	16.00	15.00	39.02 8 sets	48.26 52 sets	50.44
Notes						
Reports located: https://www.hp.com/us-en/printers/printing-speed-test-reports.html						
Productivity has been determined in accordance to ISO/IEC 24735:2010						

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	5/9/2023 13:49
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	77 degF / 25 degC 36.0 %rH
Voltage	220V
Test End Date and Time	5/10/2023 10:50

Mode and Setting	Preset Item	Preset Value
	Scanning resolution	default (200 dpi)
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-path	Paper feed direction	default (long edge)
	Output orientation	default
	Scanning unit	default (duplex ADF)

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

Summary Report: Letter

	Scanning Mode		Measurement result	
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	200	single sided	93.71
			double sided	185.12
B&W	PDF 1.4	200	single sided	94.22
			double sided	185.53

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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

Summary Report: Letter

	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	80.43	3.70	13.00
			double sided	158.12	6.62	26.00
B&W	PDF 1.4	200	single sided	81.70	2.99	14.00
			double sided	157.43	5.22	25.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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

Summary Report: Letter

	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	50.36	88.27	93.71
			double sided	66.29	173.78	185.12
B&W	PDF 1.4	200	single sided	51.40	89.2	94.22
			double sided	66.47	173.68	185.53

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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

Summary Report: Letter

	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	29.28	80.43	3.70	13
			double sided	33.41	158.12	6.62	26
B&W	PDF 1.4	200	single sided	29.64	81.70	2.99	14
			double sided	33.46	157.43	5.22	25

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
	Value	
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builitin
	USB Subsystem	USB 2.0/3.0
Operating System	Win 10 Enterprise 64 Bit (21H2)	
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
	Connction 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	5/9/2023 13:49
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	77 degF / 25 degC 36.0 %rH
Voltage	220V
Test End Date and Time	5/10/2023 10:50

Mode and Setting	Preset Item	Preset Value	
		Scanning resolution	default (200 dpi)
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-path		Paper feed direction	default (long edge)
		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	95.74
			double sided	189.59
B&W	PDF 1.4	200	single sided	95.64
			double sided	187.68

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	82.67	3.81	14.00
			double sided	160.88	6.58	26.00
B&W	PDF 1.4	200	single sided	82.61	2.97	14.00
			double sided	159.06	5.16	25.00

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	51.06	90.38	95.74
			double sided	66.85	177.21	189.59
B&W	PDF 1.4	200	single sided	51.00	90.28	95.64
			double sided	68.18	175.64	187.68

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	29.49	82.67	3.81	14
			double sided	33.67	160.88	6.58	26
B&W	PDF 1.4	200	single sided	29.44	82.61	2.97	14
			double sided	33.94	159.06	5.16	25

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
	Item	Value
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (21H2)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol Transfer Protocol	IPV4 SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connction 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	5/9/2023 13:49
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	77 degF / 25 degC 36.0 %rH
Voltage	220V
Test End Date and Time	5/10/2023 10:50

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	52.53
			double sided	103.89
B&W	PDF 1.4	200	single sided	52.83
			double sided	104.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	45.71	3.60	8.00
			double sided	88.14	6.82	14.00
B&W	PDF 1.4	200	single sided	45.79	2.94	8.00
			double sided	88.99	6.34	15.00

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	35.60	49.79	52.53
			double sided	51.77	97.25	103.89
B&W	PDF 1.4	200	single sided	35.76	49.88	52.83
			double sided	51.60	97.6	104

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	23.58	45.71	3.60	8
			double sided	29.28	88.14	6.82	14
B&W	PDF 1.4	200	single sided	23.64	45.79	2.94	8
			double sided	29.26	88.99	6.34	15

Notes

- 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
- 2) For the B/W results, the device scan setting is set to "Scan in B/W".
- 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

Test System Parameters		
	Item	Value
System	Computer name	HP Z2 Tower G8 Workstation
	Processor	Intel Core i7 11700K@3600GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	16 GB
	Hard Drive Subsystem	Samsung SSD PCIe NVMe TLC M.2 SSD 512GB
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	Operating System	Win 10 Enterprise 64 Bit (21H2)
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
	Connction 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	5/9/2023 13:49
Tester	LEP
Machine name/model	HP LaserJet Managed MFP E82650dn
Colour or B&W	B&W
Configuration (options)	Default
Temperature and Humidity	77 degF / 25 degC 36.0 %rH
Voltage	220V
Test End Date and Time	5/10/2023 10:50

Mode and Setting	Preset Item	Preset Value	
	Scanning resolution	default (200 dpi)	
	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-path	Paper feed direction	default (long edge)
		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	53.73
			double sided	106.50
B&W	PDF 1.4	200	single sided	53.98
			double sided	106.53

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	46.44	3.81	8.00
			double sided	90.56	7.34	15.00
B&W	PDF 1.4	200	single sided	46.58	3.17	8.00
			double sided	90.86	6.10	15.00

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
 3) Productivity has been determined in accordance to ISO/IEC 17991:2010

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	36.00	50.66	53.73
			double sided	51.94	99.52	106.5
B&W	PDF 1.4	200	single sided	36.06	50.83	53.98
			double sided	52.17	99.83	106.53

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
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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	23.73	46.44	3.81	8
			double sided	29.36	90.56	7.34	15
B&W	PDF 1.4	200	single sided	23.80	46.58	3.17	8
			double sided	29.51	90.86	6.10	15

Notes
 1) For more information see <https://www.hp.com/us-en/printers/printing-speed-test-reports.html>.
 2) For the B/W results, the device scan setting is set to "Scan in B/W".
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	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (21H2)
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	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use