ISO/IEC 24734 Printing Productivity Report: Office Category
Full Detailed Test Report - LETTER
HP LaserJet MFP M132snw

Test Start Date and Time: 9/22/2016 10:40
Tester: Barry
Machine name/model: HP LaserJet MFP M132snw
Colour or B&W: B&W
FW Version: 20160908
Temperature and Humidity: 75 degF / 24 degC 25.0 %rH
Voltage: 220V

Test End Date and Time: 11/5/2018 19:46

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Version</td>
<td>40.2.1082</td>
</tr>
<tr>
<td>Media/Quality Setting</td>
<td>Default / Default</td>
</tr>
<tr>
<td>Simplex B&amp;W Settings</td>
<td>Default</td>
</tr>
<tr>
<td>Duplex B&amp;W Settings</td>
<td>Default</td>
</tr>
<tr>
<td>Setting</td>
<td>N set count Application</td>
</tr>
<tr>
<td>Collating function</td>
<td>Activated (application)</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Size Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding Tray</td>
<td>2</td>
</tr>
<tr>
<td>Paper Exit</td>
<td>Standard Exit Tray</td>
</tr>
<tr>
<td>Paper Sending Tray</td>
<td>Standard Tray (duplex)</td>
</tr>
<tr>
<td>Duplexing Unit (Yes/No)</td>
<td>No</td>
</tr>
<tr>
<td>Paper Manufacturer</td>
<td>HP / Xerox</td>
</tr>
<tr>
<td>Paper Weight</td>
<td>20lb / 75 g/m2</td>
</tr>
<tr>
<td>Paper Size</td>
<td>Letter / A4</td>
</tr>
<tr>
<td>Paper type/name</td>
<td>HP Multipurpose Ultra White / HP Office</td>
</tr>
</tbody>
</table>

Printing device and settings

Simplex - Average

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>15.42</td>
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</tr>
<tr>
<td>Simplex - Word</td>
<td>14.71</td>
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<tr>
<td>Simplex - Excel</td>
<td>15.01</td>
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</table>

Duplex - Average

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Duplex - Adobe Reader</td>
<td>23.29</td>
<td></td>
</tr>
<tr>
<td>Duplex - Word</td>
<td>22.63</td>
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</tr>
<tr>
<td>Duplex - Excel</td>
<td>22.2</td>
<td></td>
</tr>
</tbody>
</table>

B&W mode (optional for color device)

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>23.26</td>
<td></td>
</tr>
<tr>
<td>Simplex - Word</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Simplex - Excel</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Summary Report: LETTER

Office Category Test for B&W Device

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.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>14.03</td>
<td></td>
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<tr>
<td>Simplex - Word</td>
<td>13.81</td>
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<tr>
<td>Simplex - Excel</td>
<td>14.51</td>
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</table>

B&W mode

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>23.26</td>
<td></td>
</tr>
<tr>
<td>Simplex - Word</td>
<td>22.63</td>
<td></td>
</tr>
<tr>
<td>Simplex - Excel</td>
<td>22.2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mode</th>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>23.26</td>
<td></td>
</tr>
<tr>
<td>Simplex - Word</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Simplex - Excel</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Test System Parameters

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer</td>
<td>Dell OptiPlex 7020 Small Form Factor</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Core i5-4590 3.3 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>8 GB</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>Dell 1TB 7200 RPM Sata 6.0GB/s</td>
</tr>
<tr>
<td>Video Card</td>
<td>AMD Radeon HD 7450 1GB</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7 SP1</td>
</tr>
<tr>
<td>Adobe Reader</td>
<td>10.1.0.2772</td>
</tr>
<tr>
<td>Microsoft Office</td>
<td>2010 SP1</td>
</tr>
</tbody>
</table>

Test Files and location: Office category files, hard drive
## ISO/IEC 24734 Printing Productivity Report: Office Category

### Full Detailed Test Report - A4

**HP LaserJet MFP M132snw**

Test Start Date and Time: 9/22/2016 10:40
Tester: Barry
Machine Name/Model: HP LaserJet MFP M132snw
Colour or B&W: B&W
FW Version: 20160908
Temperature and Humidity: 75 degF / 24 degC  25.0 %rH
Voltage: 220V
Test End Date and Time: 11/5/2018 19:46

### Printing Device and Settings

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Version</td>
<td>40.2.1082</td>
</tr>
<tr>
<td>Media/Quality Setting</td>
<td>Default / Default</td>
</tr>
<tr>
<td>Simplex B&amp;W Settings</td>
<td>Default</td>
</tr>
<tr>
<td>Duplex B&amp;W Settings</td>
<td>Default</td>
</tr>
<tr>
<td>Setting N set count</td>
<td>Application</td>
</tr>
<tr>
<td>Collating Function</td>
<td>Activated (application)</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Size Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding Tray</td>
<td>2</td>
</tr>
<tr>
<td>Output Orientation</td>
<td>Default (face down)</td>
</tr>
<tr>
<td>Paper Manufacturer</td>
<td>HP / Xerox</td>
</tr>
<tr>
<td>Paper Weight</td>
<td>20lb / 75 g/m2</td>
</tr>
<tr>
<td>Paper Size</td>
<td>Letter / A4</td>
</tr>
<tr>
<td>Paper type/name</td>
<td>HP Multipurpose Ultra White / HP Office</td>
</tr>
</tbody>
</table>

### FSOT (seconds) ESAT (ipm)

<table>
<thead>
<tr>
<th>Mode</th>
<th>1 set only</th>
<th>1 set only + 30sec</th>
<th>1 set + 30sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex - Adobe Reader</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Simplex - Word</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Simplex - Excel</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Duplex - Adobe Reader</td>
<td>15.59</td>
<td>15.39</td>
<td>15.39</td>
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<td>Duplex - Word</td>
<td>15.38</td>
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<td>Duplex - Excel</td>
<td>15.34</td>
<td>15.64</td>
<td>15.64</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Chipset</td>
<td>Intel Core i7 -3770, 3.4 GHz</td>
</tr>
<tr>
<td>System Board</td>
<td>Intel C216 Chipset Family SMBus Host Controller</td>
</tr>
<tr>
<td>System Memory</td>
<td>4 GB</td>
</tr>
<tr>
<td>Hard Drive Subsystem</td>
<td>Standard disk drive (Seagate)</td>
</tr>
<tr>
<td>Video Subsystem</td>
<td>AMD Radeon HD 6350</td>
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<td>Optical Drive</td>
<td>HP DVD ADH16aCSHR ATA</td>
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<tr>
<td>TCP/IP</td>
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<tr>
<td>Operating System</td>
<td>Windows 7 64 Bit</td>
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<td>Printing Applications</td>
<td>Microsoft Office 2010</td>
</tr>
<tr>
<td>PF License Method</td>
<td>Office 2010</td>
</tr>
<tr>
<td>Media Driver</td>
<td>Office category Fax, Hard Drive</td>
</tr>
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</table>
### ISO/IEC 24734 Printing Productivity Report: Office Category

**Feature Performance Full Report - Office Feature Performance Test**

#### HP LaserJet MFP M132snw

<table>
<thead>
<tr>
<th>Test Start Date and Time</th>
<th>9/22/2016 10:40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tester</td>
<td>Barry</td>
</tr>
<tr>
<td>Machine name/model</td>
<td>HP LaserJet MFP M132snw</td>
</tr>
<tr>
<td>Colour or B&amp;W</td>
<td>B&amp;W</td>
</tr>
<tr>
<td>FW Version</td>
<td>20160908</td>
</tr>
<tr>
<td>Temperature and Humidity</td>
<td>75 degF / 24 degC  25.0 %rH</td>
</tr>
<tr>
<td>Voltage</td>
<td>220V</td>
</tr>
<tr>
<td>Test End Date and Time</td>
<td>11/5/2018 19:46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Version</td>
<td>40.2.1082</td>
</tr>
<tr>
<td>Media/Quality Setting</td>
<td>Default / Default</td>
</tr>
<tr>
<td>Simplex B&amp;W Settings</td>
<td>Default</td>
</tr>
<tr>
<td>Duplex B&amp;W Settings</td>
<td>Default</td>
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<tr>
<td>Setting</td>
<td>N set count</td>
</tr>
<tr>
<td>Collating function</td>
<td>Activated (application)</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Size Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding Tray</td>
<td>2</td>
</tr>
<tr>
<td>Paper Exit</td>
<td>Standard Exit Tray</td>
</tr>
<tr>
<td>Output Orientation</td>
<td>Default (face down)</td>
</tr>
<tr>
<td>Duplexing Unit</td>
<td>No</td>
</tr>
<tr>
<td>Paper Manufacturer</td>
<td>HP / Xerox</td>
</tr>
<tr>
<td>Paper Weight</td>
<td>20lb / 75 g/m2</td>
</tr>
<tr>
<td>Paper Size</td>
<td>Letter / A4</td>
</tr>
<tr>
<td>Paper type/name</td>
<td>HP Multipurpose Ultra White / HP Office</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FSOT (base)</th>
<th>FSOT (feature)</th>
<th>ESAT (base)</th>
<th>ESAT (feature)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplex</td>
<td>Simplex</td>
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<tr>
<td>Simplex</td>
<td>Simplex</td>
<td>Simplex</td>
<td>Simplex</td>
</tr>
</tbody>
</table>

#### 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 IP address changes.
**ISO/IEC 17629 First Print Out Time Report: Office Category**

**Full Detailed Test Report - LETTER**

**HP LaserJet MFP M132snw**

**Test Start Date and Time** 9/22/2016 10:40

**Tester** Barry

**Machine name/model** HP LaserJet MFP M132snw

**Colour or B&W** B&W

**FW Version** 20160908

**Configuration (options)** Default

**Controller** 12000

**Voltage** 220V

**Temperature and Humidity** 75 degF / 24 degC  25.0 %rH

**Printer Model** HP LaserJet MFP M132snw

**Test End Date and Time** 11/5/2018 19:46

**Item**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDL and driver version 40.2.1082</td>
</tr>
<tr>
<td>Print Quality mode default B&amp;W</td>
</tr>
<tr>
<td>B&amp;W settings default</td>
</tr>
<tr>
<td>Paper feed orientation Short Edge</td>
</tr>
<tr>
<td>Paper exit Standard exit tray</td>
</tr>
<tr>
<td>Output orientation Standard (Face up or face down)</td>
</tr>
</tbody>
</table>

**ISO First Page Out Time Summary Report: Office Category**

**Summary Report: LETTER**

**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 test.

**ISO First Page Out Time Report: Office Category**

**Detailed Report: LETTER**

**B&W Mode**

<table>
<thead>
<tr>
<th>Color Mode</th>
<th>Word (seconds)</th>
<th>Excel (seconds)</th>
<th>Adobe Reader (seconds)</th>
<th>Average (seconds)</th>
<th>Delay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPOT from Ready - Simplex</td>
<td>6.57</td>
<td>6.76</td>
<td>6.91</td>
<td>6.75</td>
<td>49 Seconds</td>
</tr>
<tr>
<td>FPOT from Ready - Duplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOT from Sleep - Simplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Recovery Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Warm-up Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOT from Sleep - Duplex</td>
<td>7.35</td>
<td>61 Minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery Time</td>
<td>0.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPOT from Off - Simplex</td>
<td>74.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Warm-up Time</td>
<td>67.26</td>
<td></td>
<td></td>
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</table>

**Color Mode**

<table>
<thead>
<tr>
<th>Color Mode</th>
<th>Word (seconds)</th>
<th>Excel (seconds)</th>
<th>Adobe Reader (seconds)</th>
<th>Average (seconds)</th>
<th>Delay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPOT from Sleep - Simplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOT from Sleep - Duplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOT from Sleep (15 minutes)</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Recovery Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Warm-up Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOT from Sleep (15 minutes)</td>
<td>7.35</td>
<td>61 Minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery Time</td>
<td>0.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPOT from Off - Simplex</td>
<td>74.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warm-up Time</td>
<td>67.26</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**HP Data Table**

**Detailed Report: LETTER**

**B&W Mode**

<table>
<thead>
<tr>
<th>Color Mode</th>
<th>FPOT Avg (secs)</th>
<th>FPOT (secs) Iteration 1</th>
<th>FPOT (secs) Iteration 2</th>
<th>FPOT (secs) Iteration 3</th>
<th>Application</th>
<th>Delay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPOT from Sleep</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td></td>
</tr>
<tr>
<td>FPOT from Sleep (15 minutes)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td></td>
</tr>
<tr>
<td>FPOT from Sleep (15 minutes)</td>
<td>7.35</td>
<td>7.33</td>
<td>7.37</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td>61 Minutes</td>
</tr>
<tr>
<td>Recovery Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td></td>
</tr>
<tr>
<td>Warm-up Time</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td></td>
</tr>
</tbody>
</table>

**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) Page counts were collected after completion of the test.
4) Details for FPOT from Sleep are shown below.
5) Details for FPOT from Sleep (15 minutes) are shown below.

**Test System Parameters**

**Item**

<table>
<thead>
<tr>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory</td>
</tr>
<tr>
<td>Video Subsystem</td>
</tr>
<tr>
<td>System Date Set</td>
</tr>
<tr>
<td>Video Subsystem</td>
</tr>
<tr>
<td>System Clock</td>
</tr>
<tr>
<td>Dynamic RAM</td>
</tr>
<tr>
<td>Processor</td>
</tr>
<tr>
<td>Operating System</td>
</tr>
<tr>
<td>Thermal Properties</td>
</tr>
<tr>
<td>Operating System</td>
</tr>
<tr>
<td>Memory</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
<tr>
<td>Printer Driver</td>
</tr>
</tbody>
</table>
## ISO/IEC 17629 First Print Out Time Report: Office Category

### Full Detailed Test Report - A4

**HP LaserJet MFP M132snw**

**Test Start Date and Time:** 9/22/2016 10:40

**Tester:** Barry

**Machine name/model:** HP LaserJet MFP M132snw

**Colour or B&W:** B&W

**FW Version:** 20160908

**Configuration (options):** Default

**Controller:** 12000

**Temperature and Humidity:** 75 degF / 24 degC  25.0 %rH

**Voltage:** 220V

**Test End Date and Time:** 11/5/2018 19:46

### Printing Device and Settings

<table>
<thead>
<tr>
<th>Mode and Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDL and driver version</td>
<td>40.2.1082</td>
</tr>
<tr>
<td>Print Quality mode</td>
<td>default</td>
</tr>
<tr>
<td>B&amp;W settings</td>
<td>default</td>
</tr>
<tr>
<td>Paper feed orientation</td>
<td>Short Edge</td>
</tr>
<tr>
<td>Paper type setting</td>
<td>Standard cassette</td>
</tr>
<tr>
<td>Paper path</td>
<td>Standard exit tray</td>
</tr>
</tbody>
</table>

### Printing Device and Application Settings

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Path</td>
<td>Standard exit tray</td>
</tr>
</tbody>
</table>

### ISO First Page Out Time Summary Report: Office Category

#### Summary Report: A4

**B&W**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Iteration 1</th>
<th>Iteration 2</th>
<th>Iteration 3</th>
<th>Application</th>
<th>Delay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPOF from Ready - Simplex</td>
<td>6.86</td>
<td>7.10</td>
<td>7.10</td>
<td>Adobe Reader</td>
<td>49 Seconds</td>
</tr>
<tr>
<td>FPOF from Ready - Duplex</td>
<td>7.47</td>
<td>7.46</td>
<td>7.46</td>
<td>Adobe Reader</td>
<td>61 Minutes</td>
</tr>
</tbody>
</table>

**Color Mode**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Iteration 1</th>
<th>Iteration 2</th>
<th>Iteration 3</th>
<th>Application</th>
<th>Delay Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPOF from Sleep - Simplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td>N/A</td>
</tr>
<tr>
<td>FPOF from Sleep - Duplex</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Adobe Reader</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### HP Data Table

#### Detailed Report: A4

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer</td>
<td>HP Compaq Elite 8300 Small Form Factor</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Core i7 -3770, 3.4 GHz</td>
</tr>
<tr>
<td>System Chip Set</td>
<td>Intel C216 Chipset Family SMBus Host Controller</td>
</tr>
<tr>
<td>System Board</td>
<td>System devices, default system BIOS</td>
</tr>
<tr>
<td>System Memory</td>
<td>4 GB</td>
</tr>
<tr>
<td>Hard Drive Subsystem</td>
<td>Standard disk drive (Seagate)</td>
</tr>
<tr>
<td>Video Subsystem</td>
<td>AMD Radeon HD 6350</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>HP DVD ADH16aCSHR ATA</td>
</tr>
<tr>
<td>I/O Subsystem</td>
<td>Builtin</td>
</tr>
<tr>
<td>USB Subsystem</td>
<td>USB 2.0/3.0</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7 Business/Ultimate, 64 bit, Build 7601, SP</td>
</tr>
<tr>
<td>Microsoft Office 2010 SP2</td>
<td></td>
</tr>
<tr>
<td>Adobe Reader 10.1.4</td>
<td></td>
</tr>
<tr>
<td>Test Date</td>
<td>9/22/2016</td>
</tr>
<tr>
<td>Test User</td>
<td>10/1000</td>
</tr>
</tbody>
</table>

---

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/support](http://www.hp.com/support).
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.

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ISO/IEC 29183 Copy Productivity Report
Full Detailed Test Report - LETTER
HP LaserJet MFP M132snw

**Machine Setup Information**

<table>
<thead>
<tr>
<th>Test Start Date and Time</th>
<th>11/6/2018 18:42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tester</td>
<td>Barry</td>
</tr>
<tr>
<td>Machine name/model</td>
<td>HP LaserJet MFP M132snw</td>
</tr>
<tr>
<td>Colour or B&amp;W</td>
<td>B&amp;W</td>
</tr>
<tr>
<td>FW Version</td>
<td>20160908</td>
</tr>
<tr>
<td>Configuration (options)</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Temperature and Humidity</td>
<td>75 degF / 24 degC 25.0 %rH</td>
</tr>
<tr>
<td>Test End Date and Time</td>
<td>11/7/2018 16:16</td>
</tr>
</tbody>
</table>

**Pre-set Item**

<table>
<thead>
<tr>
<th>Pre-set Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
</tr>
<tr>
<td>Output Resolution</td>
</tr>
<tr>
<td>Output Quality</td>
</tr>
<tr>
<td>Copying Mode</td>
</tr>
<tr>
<td>Auto Density Adjustment</td>
</tr>
<tr>
<td>Collating function</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
</tr>
<tr>
<td>Paper Type Setting</td>
</tr>
<tr>
<td>Paper Path</td>
</tr>
<tr>
<td>Paper Feeding</td>
</tr>
<tr>
<td>Paper Exit</td>
</tr>
<tr>
<td>Temporary Stop</td>
</tr>
<tr>
<td>Fixing Capability</td>
</tr>
<tr>
<td>Image Quality Stability</td>
</tr>
<tr>
<td>Capacity of Paper</td>
</tr>
<tr>
<td>Others</td>
</tr>
</tbody>
</table>

**Paper**

<table>
<thead>
<tr>
<th>Paper Type/name</th>
<th>HP Multipurpose Ultra White / HP Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Type</td>
<td>HP / Xerox</td>
</tr>
<tr>
<td>Paper Weight</td>
<td>20lb / 75 g/m2</td>
</tr>
<tr>
<td>Paper Size</td>
<td>Letter / A4</td>
</tr>
</tbody>
</table>

**Summary Report: Letter**

<table>
<thead>
<tr>
<th>sFCOT (secs)</th>
<th>sESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B&amp;W</td>
<td>6.9</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Target</th>
<th>sFCOT (secs)</th>
<th>sEFTP (ipm)</th>
<th>sESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1copy 1copy+30sec 1copy+4minutes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B&amp;W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>6.91</td>
<td>8.68</td>
<td>20.53</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
<td>13 sets</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>6.9</td>
<td>8.7</td>
<td>20.5</td>
</tr>
</tbody>
</table>

**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
## Machine Setup Information

<table>
<thead>
<tr>
<th>Test Start Date and Time</th>
<th>11/6/2018 18:42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tester</td>
<td>Barry</td>
</tr>
<tr>
<td>Machine name/model</td>
<td>HP LaserJet MFP M132snw</td>
</tr>
<tr>
<td>Colour or B&amp;W</td>
<td>B&amp;W</td>
</tr>
<tr>
<td>FW Version</td>
<td>20160908</td>
</tr>
<tr>
<td>Configuration (options)</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Temperature and Humidity</td>
<td>75 degF / 24 degC 25.0 %rH</td>
</tr>
</tbody>
</table>

## Pre-set Item Pre-set Value

<table>
<thead>
<tr>
<th>Mode</th>
<th>Pre-set Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Resolution</td>
<td>Default</td>
</tr>
<tr>
<td>Output Quality</td>
<td>Default</td>
</tr>
<tr>
<td>Copying Mode</td>
<td>Colour for Colour and B&amp;W for B&amp;W</td>
</tr>
<tr>
<td>Auto Density Adjustment</td>
<td>Default</td>
</tr>
<tr>
<td>Collating function</td>
<td>Set in Control Panel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paper</th>
<th>Pre-set Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Type Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding</td>
<td>Tray 2</td>
</tr>
<tr>
<td>Paper Exit</td>
<td>Default</td>
</tr>
<tr>
<td>Face Up Exit</td>
<td>Default (face down)</td>
</tr>
</tbody>
</table>

| Temporary Stop                 | Pre-set Value |
| Fixing Capability              | Default       |
| Image Quality Stability        | Default       |
| Capacity of Paper              | Default       |
| Others                         | None          |

| Paper                          | Pre-set Value |
| 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

<table>
<thead>
<tr>
<th></th>
<th>sFCOT</th>
<th>sESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B&amp;W</td>
<td>7.3</td>
<td>21.9</td>
</tr>
</tbody>
</table>

### Notes

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

<table>
<thead>
<tr>
<th>Target</th>
<th>sFCOT (secs)</th>
<th>sEFTP (ipm)</th>
<th>sESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1copy</td>
<td>1copy+30sec</td>
<td>1copy+4minutes</td>
</tr>
<tr>
<td>B&amp;W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>7.32</td>
<td>8.20</td>
<td>19.44</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>13 sets</td>
</tr>
<tr>
<td></td>
<td>21.93 (21.9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes

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**: 9/26/2016 15:52
- **Tester**: Barry
- **Machine name/model**: HP LaserJet MFP M132snw
- **Colour or B&W**: B&W
- **FW Version**: 20160908
- **Configuration (options)**: Not Specified
- **Temperature and Humidity**: 75 degF / 24 degC  25.0 %rH

- **Test End Date and Time**: 11/6/2018 15:46

<table>
<thead>
<tr>
<th>Pre-set Item</th>
<th>Pre-set Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Resolution</td>
<td>Default</td>
</tr>
<tr>
<td>Output Quality</td>
<td>Default</td>
</tr>
<tr>
<td>Copying Mode</td>
<td>Default</td>
</tr>
<tr>
<td>Auto Density Adjustment</td>
<td>Default</td>
</tr>
<tr>
<td>Collating function</td>
<td>Activated (if not activated in default mode)</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Type Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding</td>
<td>Standard cassette</td>
</tr>
<tr>
<td>Paper Exit</td>
<td>Standard exit tray</td>
</tr>
<tr>
<td>Face Up Exit</td>
<td>Default</td>
</tr>
<tr>
<td>Fixing Capability</td>
<td>Default</td>
</tr>
<tr>
<td>Image Quality Stability</td>
<td>Default</td>
</tr>
<tr>
<td>Capacity of Paper</td>
<td>Default</td>
</tr>
<tr>
<td>Others</td>
<td>Default</td>
</tr>
</tbody>
</table>

- **Paper Manufacturer**: HP / Xerox
- **Paper Weight**: 20lb / 75 g/m2
- **Paper Size**: Letter / A4

ISO/IEC 24735 Copy Productivity Report

**Detailed Report**: LETTER

<table>
<thead>
<tr>
<th>Copying Mode</th>
<th>FSOT (secs)</th>
<th>EFTP (ipm)</th>
<th>ESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 set only</td>
<td>1 set only</td>
<td>1 set + 30sec</td>
</tr>
<tr>
<td><strong>Color Mode</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B&amp;W mode</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:1</td>
<td>27.55</td>
<td>8.71</td>
<td>17.44</td>
</tr>
<tr>
<td>1:2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Reports located: http://www.hp.com/go/printerclaims
### ISO/IEC 24735 Copy Productivity Report

#### Full Detailed Test Report - A4

**Machine Setup Information**

<table>
<thead>
<tr>
<th>Test Start Date and Time</th>
<th>9/26/2016 15:52</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tester</td>
<td>Barry</td>
</tr>
<tr>
<td>Machine name/model</td>
<td>HP LaserJet MFP M132snw</td>
</tr>
<tr>
<td>Colour or B&amp;W</td>
<td>B&amp;W</td>
</tr>
<tr>
<td>FW Version</td>
<td>20160908</td>
</tr>
<tr>
<td>Configuration (options)</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Temperature and Humidity</td>
<td>75 degF / 24 degC 25.0 %rH</td>
</tr>
<tr>
<td>Test End Date and Time</td>
<td>11/6/2018 15:46</td>
</tr>
</tbody>
</table>

**Pre-set Item & Pre-set Value**

<table>
<thead>
<tr>
<th>Pre-set Item</th>
<th>Pre-set Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Resolution</td>
<td>Default</td>
</tr>
<tr>
<td>Output Quality</td>
<td>Default</td>
</tr>
<tr>
<td>Copying Mode</td>
<td>Default</td>
</tr>
<tr>
<td>Auto Density Adjustment</td>
<td>Default</td>
</tr>
<tr>
<td>Collating function</td>
<td>Activated (if not activated in default mode)</td>
</tr>
<tr>
<td>Paper Sending Direction</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Type Setting</td>
<td>Default</td>
</tr>
<tr>
<td>Paper Feeding</td>
<td>Standard cassette</td>
</tr>
<tr>
<td>Paper Exit</td>
<td>Standard exit tray</td>
</tr>
<tr>
<td>Face Up Exit</td>
<td>Default</td>
</tr>
<tr>
<td>Fixing Capability</td>
<td>Default</td>
</tr>
<tr>
<td>Image Quality Stability</td>
<td>Default</td>
</tr>
<tr>
<td>Capacity of Paper</td>
<td>Default</td>
</tr>
<tr>
<td>Others</td>
<td>Default</td>
</tr>
</tbody>
</table>

**Paper**

- Manufacturer: HP / Xerox
- Weight: 20lb / 75 g/m²
- Size: Letter / A4

### Table: FSOT (secs) & EFTP (ipm)

<table>
<thead>
<tr>
<th>Copying Mode</th>
<th>FSOT (secs)</th>
<th>EFTP (ipm)</th>
<th>ESAT (ipm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 set only</td>
<td>1 set only</td>
<td>1 set + 30sec</td>
</tr>
<tr>
<td>Colour Mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B&amp;W mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:1</td>
<td>28.34</td>
<td>8.46</td>
<td>15.77</td>
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<tr>
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#### Notes

**ISO/IEC 17991 Scanning Productivity Report**

**Test Start Date and Time**: 11/8/2018 18:56

**Tester**: Susan

**Machine name/model**: HP LaserJet MFP M132snw

**Colour or B&W**: B&W

**Configuration (options)**: Default

**Temperature and Humidity**: 75 degF / 24 degC  25.0 %rH

**Voltage**: 220V

**Test End Date and Time**: 11/11/2018 18:30

---

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

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

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

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

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**Test System Parameters**

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<tr>
<td>System</td>
<td>HP Compaq Elite 8300 Small Form Factor</td>
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<tr>
<td>Processor</td>
<td>Intel Core i7 -3770, 3.4 GHz</td>
</tr>
<tr>
<td>System Chip Set</td>
<td>Intel C216 Chipset Family SMBus Host Controller</td>
</tr>
<tr>
<td>System Board</td>
<td>System devices, default system BIOS</td>
</tr>
<tr>
<td>System Memory</td>
<td>4 GB</td>
</tr>
<tr>
<td>Hard Drive Subsystem</td>
<td>Standard disk drive (Seagate)</td>
</tr>
<tr>
<td>Video Subsystem</td>
<td>AMD Radeon HD 6350</td>
</tr>
<tr>
<td>Optical Drive</td>
<td>HP DVD A DH16aCSHR ATA</td>
</tr>
<tr>
<td>I/O Subsystem</td>
<td>Built-in</td>
</tr>
<tr>
<td>USB Subsystem</td>
<td>Windows 7 Business/Ultimate, 64 bit, Build 7901, SP 1</td>
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<tr>
<td>Operating System</td>
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**Scanning Device Connection**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Location of network folder</td>
<td>PC</td>
</tr>
<tr>
<td>Transfer Protocol</td>
<td>SMB</td>
</tr>
<tr>
<td>Hub</td>
<td></td>
</tr>
<tr>
<td>Network Speed</td>
<td>TCP 10/100 Mbit Ethernet</td>
</tr>
<tr>
<td>Connection Cable</td>
<td>Cat5 Straight cable</td>
</tr>
<tr>
<td>Wireless router</td>
<td>No use</td>
</tr>
<tr>
<td>Others</td>
<td>No use</td>
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## Test System Parameters

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
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<tbody>
<tr>
<td>Computer name</td>
<td>HP Compaq Elite 8000 Small Form Factor</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Core i7-3770, 3.4 GHz</td>
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## Scanning System Parameters

### Machine Setup Information
- **Test Start Date and Time:** 11/8/2018 18:56
- **Tester:** Susan
- **Machine name/model:** HP LaserJet MFP M132snw
- **Colour of B/W:** B/W
- **Configuration (options):** Default
- **Temperature and Humidity:** 75 degF / 24 degC, 25.0 %rH
- **Voltage:** 220V

### Machine Setup Information
- **Test End Date and Time:** 11/11/2018 18:30

#### Preset Item
<table>
<thead>
<tr>
<th>Preset Item</th>
<th>Preset Value</th>
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<tbody>
<tr>
<td>Scanning resolution</td>
<td>default (200 dpi)</td>
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<tr>
<td>Colour or grey scale/B/W</td>
<td>default (colour)</td>
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<tr>
<td>Duplex / simplex</td>
<td>default (simplex)</td>
</tr>
<tr>
<td>Original page size</td>
<td>default (44)</td>
</tr>
<tr>
<td>Paper feed orientation</td>
<td>default (long edge)</td>
</tr>
<tr>
<td>Scan destination</td>
<td>default (shared network)</td>
</tr>
<tr>
<td>Memory file type</td>
<td>default (PDF-multi)</td>
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<tr>
<td>Print scan quality adjustment</td>
<td>default (factory preset setting)</td>
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<tr>
<td>Paper feed direction</td>
<td>default (long edge)</td>
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<tr>
<td>Output orientation</td>
<td>default (simplex)</td>
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<tr>
<td>Scanning unit</td>
<td>default (duplex ADF)</td>
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### ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

<table>
<thead>
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<th>Summary Report: A4</th>
<th>Measurement result</th>
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### ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

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