# ISO/IEC 24734 Printing Productivity Report: Office Category Full Detailed Test Report - LETTER

| ruii Detaileu Test Report - LETTER |  |
|------------------------------------|--|
| Kyocera ECOSYS FS-4200DN           |  |

| Test Start Date and Time | 12/19/2014 6:43             |
|--------------------------|-----------------------------|
| Tester                   | KN                          |
| Machine name/model       | ECOSYS FS-4200DN            |
| Colour or B&W            | B&W                         |
| FW Version               | 2LV_3F00.012.003 2014.06.24 |
| Temperature and Humidity | 76 degF / 24 degC, 22 %rH   |
| Voltage                  | 110V                        |
| Test End Date and Time   | 12/22/2014 14:20            |

|         | Item                    | Value  |
|---------|-------------------------|--|
|         |                         |  |
|         | Driver Version          |  |
| Mode    | Media/Quality Setting   |  |
| and     | Simplex B&W Settings    | Default  |
|         | Duplex B&W Settings     | Default  |
| Setting | Setting N set count     | Application                                    |
|         | Collating function      | Activated (application)                        |
|         | Paper Sending Direction | Default  |
|         | Paper Size Setting      | Default  |
| Paper   | Paper Feeding           | Tray 2   |
| Path    | Paper Exit              | Standard Exit Tray                             |
|         | Output Orientation      | Default (face down)                            |
|         | Duplexing Unit (Yes/No) | Yes  |
|         | Paper Manufacturer      | HP / Xerox                                     |
| Paper   | Paper Weight            | 20lb / 75 g/m2                                 |
| raper   | Paper Size              | Letter / A4                                    |
|         | Paper type/name         | HP Multipurpose Colorlok / Xerox Business 4200 |

| Summary Report: Letter |  |
|------------------------|--|
| Summary Report: Letter |  |
|                        |  |
|                        |  |

| Office Category Test for B&W Device |   | FSOT (seconds) | ESAT (ipm) |  |
|-------------------------------------|---|----------------|------------|--|
| DOW                                 | Simplex   | 12.5           | 52.3       |  |
| B&W Duplex                          |   | 13.5           | 39.8       |  |
| 3) For more information see ht      | r settings were default mode.  nt driver was set to "print in B/W".  tp://www.hp.com/go/printerclaims.  to follow device if the IP address changes. |                |            |  |

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| Detailed Repo | rt: LETTER        |                       |                       |                              |                             |               |
|---------------|-------------------|-----------------------|-----------------------|------------------------------|-----------------------------|---------------|
|               | Office            | FSOT (secs)           |                       | EFTP (ipm)                   |                             | ESAT (ipm)    |
|               | Category<br>Test  | 1 set only<br>(1 set) | 1 set only<br>(1 set) | 1 set + 30sec<br>(# of sets) | 1 set + 4min<br>(# of sets) | 1 set + 30sec |
|               | Simplex - Adobe   |                       |                       |                              |                             |               |
|               | Reader            |                       | (1 set)               |                              |                             |               |
|               | Simplex - Word    |                       |                       |                              | $\setminus$                 |               |
|               | Simplex - Word    |                       | ( 1 set )             |                              | $\langle$                   |               |
|               | Simplex - Excel   |                       |                       |                              | $\setminus$                 |               |
| Color Mode    | Simplex - Excel   |                       | (1 set)               |                              | $\langle$                   |               |
| Color Wode    | Simplex - Average |                       |                       |                              |                             |               |
|               | Duplex - Adobe    | N/A                   | N/A                   | N/A                          | $\sim$                      | N/A           |
|               | Reader            |                       | N/A                   | N/A                          | $\sim$                      | 1471          |
|               | Duplex - Word     | N/A                   | N/A                   | N/A<br>N/A                   | >                           | N/A           |
|               |                   |                       | N/A                   |                              | >                           |               |
|               | Duplex - Excel    | N/A                   | N/A<br>N/A            | N/A<br>N/A                   | >                           | N/A           |
|               | Duplex - Average  | N/A                   | N/A                   | N/A                          | >                           | N/A           |
|               | Simplex - Adobe   |                       | 18.70                 | 42.30                        | 50.35                       |               |
|               | Reader            | 12.83                 | (1 set)               | ( 8 sets )                   | ( 57 sets )                 | 52.59         |
|               | Simplex - Word    | 12.17                 | 19.70                 | 43.19                        | $\mathbb{N}$                | 52.33         |
|               |                   |                       | (1 set)               | ( 8 sets )                   | $\langle$                   |               |
|               | Simplex - Excel   | 12.22                 | 19.62                 | 42.94                        | ><                          | 52.20         |
| B&W mode      |                   |                       | ( 1 set )             | ( 8 sets )                   | $\setminus$                 |               |
|               | Simplex - Average | 12.5                  | 19.3                  | 42.8                         | 50.3                        | 52.3          |
| (optional for | Duplex - Adobe    | 14.00                 | 15.60                 | 31.26                        | $\sim$                      | 39.96         |
| color device) | Reader            | 1 1.00                | (1 set)               | ( 7 sets )                   | $\sim$                      | 59.90         |
|               | Duplex - Word     | 13.22                 | 16.44                 | 31.52                        | >                           | 39.76         |
|               | •                 |                       | (1 set)               | ( 7 sets )                   | >                           |               |
|               | Duplex - Excel    | 13.28                 | 16.36<br>( 1 set )    | 31.62<br>( 7 sets )          | >                           | 39.76         |
|               | Duplex - Average  | 13.5                  | 16.1                  | 31.4                         | >                           | 39.8          |
| Notes         | /worago           | . 5.0                 |                       |                              | $\sim$                      | 20.0          |

- 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/gop/inforcialms.
  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                  | 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 Kyocera ECOSYS FS-4200DN

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|------------|--------------------------|-----------------------------|
| Frinting u | <u> </u>                 |                             |
|            | Test Start Date and Time | 12/19/2014 6:43             |
|            | Tester                   | KN                          |
|            | Machine name/model       | ECOSYS FS-4200DN            |
|            | Colour or B&W            | B&W                         |
|            | FW Version               | 2LV_3F00.012.003 2014.06.24 |
|            | Temperature and Humidity | 76 degF / 24 degC, 22 %rH   |
|            | Voltage                  | 110V                        |
|            | Test End Date and Time   | 12/22/2014 14:20            |

|         | Item                    | Value  |
|---------|-------------------------|--|
|         | Driver Version          | v5.0.0.0                                       |
| Mode    | Media/Quality Setting   | Default / Default                              |
| and     | Simplex B&W Settings    | Default  |
|         | Duplex B&W Settings     | Default  |
| Setting | Setting N set count     | Application                                    |
|         | Collating function      | Activated (application)                        |
|         | Paper Sending Direction | Default  |
|         | Paper Size Setting      | Default  |
| Paper   | Paper Feeding           | Tray 2   |
| Path    | Paper Exit              | Standard Exit Tray                             |
|         | Output Orientation      | Default (face down)                            |
|         | Duplexing Unit (Yes/No) | Yes  |
|         | Paper Manufacturer      | HP / Xerox                                     |
| Donor   | Paper Weight            | 20lb / 75 g/m2                                 |
| Paper   | Paper Size              | Letter / A4                                    |
|         | Paper type/name         | HP Multipurpose Colorlok / Xerox Business 4200 |

| Summary Report: A | 1                          |                |            |
|-------------------|----------------------------|----------------|------------|
| Office Ca         | tegory Test for B&W Device | FSOT (seconds) | ESAT (ipm) |
| B&W               | Simplex                    | 12.8           | 50.3       |
|                   | Duplex                     | 14.0           | 38.6       |
|                   |                            |                |            |

- Notes

  1) All printing device and driver settings were default mode.
  2) For the BW 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 Repo               | ort: A4                   |                       |                       |                              |                             |               |
|-----------------------------|---------------------------|-----------------------|-----------------------|------------------------------|-----------------------------|---------------|
|                             | Office                    | FSOT (secs)           |                       | EFTP (ipm)                   |                             | ESAT (ipm)    |
|                             | Category<br>Test          | 1 set only<br>(1 set) | 1 set only<br>(1 set) | 1 set + 30sec<br>(# of sets) | 1 set + 4min<br>(# of sets) | 1 set + 30sec |
|                             | Simplex - Adobe<br>Reader |                       | (1 set)               |                              |                             |               |
|                             | Simplex - Word            |                       | (1 set)               |                              | $\gg$                       |               |
| Colour                      | Simplex - Excel           |                       | (1 set)               |                              | $\gg$                       |               |
| Wode                        | Simplex - Average         |                       |                       |                              |                             |               |
|                             | Duplex - Adobe<br>Reader  | N/A                   | N/A<br>N/A            | N/A<br>N/A                   | $\gg$                       | N/A           |
|                             | Duplex - Word             | N/A                   | N/A<br>N/A            | N/A<br>N/A                   | $\gg$                       | N/A           |
|                             | Duplex - Excel            | N/A                   | N/A<br>N/A            | N/A<br>N/A                   | $\gg$                       | N/A           |
|                             | Duplex - Average          | N/A                   | N/A                   | N/A                          | $\sim$                      | N/A           |
|                             | Simplex - Adobe<br>Reader | 13.15                 | 18.23<br>( 1 set )    | 40.99<br>( 8 sets )          | 46.62<br>( 55 sets )        | 50.52         |
|                             | Simplex - Word            | 12.13                 | 19.78<br>(1 set)      | 37.69<br>( 8 sets )          | ( 00 300)                   | 50.39         |
| B&W mode                    | Simplex - Excel           | 12.83                 | 18.70<br>(1 set)      | 41.02<br>( 8 sets )          | >                           | 50.09         |
|                             | Simplex - Average         | 12.8                  | 18.9                  | 39.9                         | 46.6                        | 50.3          |
| (optional for color device) | Duplex - Adobe<br>Reader  | 14.28                 | 15.38<br>(1 set)      | 29.08<br>( 6 sets )          | $\sim$                      | 38.52         |
| ,                           | Duplex - Word             | 13.59                 | 16.10<br>(1 set)      | 29.72<br>( 6 sets )          | $\gg$                       | 38.52         |
|                             | Duplex - Excel            | 13.95                 | 15.70<br>(1 set)      | 29.64<br>( 6 sets )          |                             | 38.78         |
|                             | Duplex - Average          | 14.0                  | 15.7                  | 29.4                         | $\sim$                      | 38.6          |

- Notes

  J 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 thry-lowen by compleyorinterclaims.

  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)                   |  |  |
|                         | AMD Radeon HD 6350                              |  |  |
| Optical Drive           | HP DVD A DH16aCSHR ATA                          |  |  |
| I/O Subsystem           |   |  |  |
| 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 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

Kyocera ECOSYS FS-4200DN

| Printing device and settings | 3                         |
|------------------------------|---------------------------|
| Test Start Date and Time     | 12/17/2014 15:57          |
| Tester                       | KN                        |
| Machine name/model           | ECOSYS FS-4200DN          |
| Colour or B&W                | B&W                       |
| Configuration (options)      | default                   |
| Controller                   | Not Specified             |
| Printing device page count   | 3260                      |
| Printing supplies page count | Not Specified             |
| Temperature and Humidity     | 77 degF / 25 degC, 22 %rH |
| Voltage                      | 110V                      |
| Test End Date and Time       | 1/29/2015 3:56            |

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

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

| Summary Report: Letter |         |                           |
|------------------------|---------|---------------------------|
|                        | •       | FPOT from Ready (seconds) |
| B&W                    | Simplex | 8.6                       |
| Davv                   | Duplex  | 12.5                      |
| Notes                  |         |                           |

Notes

J All printing device and driver settings were default mode.

D For the B/W results, the print driver was set to 'print in B/W'.

For more information see thtp://www.thp.com/goprinterclaims.

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P or more information see thtp://www.thp.com/goprinterclaims.

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| ISO First Page Out Time Report: Office Category |                           |                   |                    |                              |                      |            |
|---|---------------------------|-------------------|--------------------|------------------------------|----------------------|------------|
|   |                           |                   |                    |                              |                      |            |
| Detailed Report:                                | LETTER                    |                   |                    |                              | +                    |            |
|   |                           | Word<br>(seconds) | Excel<br>(seconds) | Adobe<br>Reader<br>(seconds) | Average<br>(seconds) | Delay Time |
|   | FPOT from Ready - Simplex |                   |                    |                              |                      |            |
|   | FPOT from Ready - Duplex  |                   |                    |                              |                      |            |
| Color Mode                                      | FPOT from Sleep - Simplex | ><                | ><                 |                              | ><                   |            |
|   | Recovery Time             | > <               |                    |                              | > <                  | > <        |
|   | FPOT from Off - Simplex   | > <               |                    |                              | > <                  | ><         |
|   | Warm-up Time              | $>\!\!<$          | ><                 |                              | ><                   | ><         |
|   | FPOT from Ready - Simplex | 8.31              | 8.47               | 9.00                         | 8.60                 | 50 Seconds |
|   | FPOT from Ready - Duplex  | 12.15             | 12.33              | 12.89                        | 12.46                | 50 Seconds |
| B&W Mode  | FPOT from Sleep - Simplex | ><                | ><                 | 26.92                        | ><                   |            |
|   | Recovery Time             | > <               |                    | 17.9                         | > <                  | > <        |
|   | FPOT from Off - Simplex   | > <               |                    | 69.66                        | > <                  | > <        |
|   | Warm-up Time              |                   |                    | 60.66                        |                      |            |

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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. Test System Parameters

Intel Core i7 -3770, 3.4 GHz
Intel Core i7 -3770, 3.4 GHz
Intel C216 Chipset Family SMBus Host Controller
system devices, default system BIOS Computer Processor System Chip Set System Board Test System Memory Hard Drive Subsystem 4 GB Standard disk drive (Seagate) System /ideo Subsystem AMD Radeon HD 6350 HP DVD A DH16aCSHR ATA Optical Drive I/O Subsystem USB Subsystem Builtin USB 2.0/3.0 Printing

| Device TCP/IP Connection |          | TCP/IP                  | 10/1000   |  |  |
|--------------------------|----------|-------------------------|---|--|--|
|                          |          | Operating System        | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |  |  |
|                          |          | Printing Applications   | Microsoft Office 2010 SP2                             |  |  |
| Software                 | Software |                         | Adobe Reader 10.1.4                                   |  |  |
|                          |          | Print Driver            | v5.0.0.0  |  |  |
|                          |          | Test files and location | Office category files, hard drive                     |  |  |

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

Full Detailed Test Report - A4
Kyocera ECOSYS FS-4200DN

| Printing device and settings | Printing device and settings |  |  |
|------------------------------|------------------------------|--|--|
| Test Start Date and Time     | 12/17/2014 15:57             |  |  |
| Tester                       | KN                           |  |  |
| Machine name/model           | ECOSYS FS-4200DN             |  |  |
| Colour or B&W                | B&W                          |  |  |
| Configuration (options)      | default                      |  |  |
| Controller                   | Not Specified                |  |  |
| Printing device page count   | 3260                         |  |  |
| Printing supplies page count | Not Specified                |  |  |
| Temperature and Humidity     | 77 degF / 25 degC, 22 %rH    |  |  |
| Voltage                      | 110V                         |  |  |
| Test End Date and Time       | 1/29/2015 3:56               |  |  |

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

# ISO First Page Out Time Summary Report: Office Category

| Summary Report: A4 |         |                           |
|--------------------|---------|---------------------------|
|                    |         | FPOT from Ready (seconds) |
| B&W                | Simplex | 8.8                       |
| Davv               | Duplex  | 12.9                      |

- 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 configued 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: | Δ4  |                   |                    |                              |                      |            |
| Dotallou Hoporti |   |                   |                    |                              |                      |            |
|                  |   | Word<br>(seconds) | Excel<br>(seconds) | Adobe<br>Reader<br>(seconds) | Average<br>(seconds) | Delay Time |
|                  | FPOT from Ready - Simplex                       |                   |                    |                              |                      |            |
|                  | FPOT from Ready - Duplex                        |                   |                    |                              |                      |            |
| Colour Mode      | FPOT from Sleep - Simplex                       | ><                | ><                 |                              | ><                   |            |
|                  | Recovery Time                                   | $>\!<$            | ><                 |                              | ><                   | ><         |
|                  | FPOT from Off - Simplex                         | > <               | > <                |                              | > <                  | > <        |
|                  | Warm-up Time                                    | > <               | ><                 |                              | > <                  | ><         |
|                  | FPOT from Ready - Simplex                       | 8.35              | 8.94               | 9.15                         | 8.82                 | 50 Seconds |
|                  | FPOT from Ready - Duplex                        | 12.35             | 13.01              | 13.23                        | 12.87                | 50 Seconds |
| B&W Mode         | FPOT from Sleep - Simplex                       | ><                | ><                 | 26.95                        | ><                   |            |
|                  | Recovery Time                                   | > <               | > <                | 17.8                         | > <                  | > <        |
|                  | FPOT from Off - Simplex                         | > <               |                    | 90.91                        | > <                  | $\geq <$   |
| Notee            | Warm-up Time                                    | > <               | > <                | 81.75                        | > <                  | > <        |

- 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/gop/interctaims.
  4) Port monitor not configued to follow device if the IP address changes.
  5) Page counts were collected after completion of the tests.

|                                  | 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                   |  |
| Test                             | System Memory           | 4 GB  |  |
| System                           | 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   |  |
| Printing<br>Device<br>Connection | TCP/IP                  | 10/1000   |  |
|                                  | Operating System        | Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1 |  |
| Software                         | Printing Applications   | Microsoft Office 2010 SP2                             |  |
|                                  | Filling Applications    | Adobe Reader 10.1.4                                   |  |
|                                  | Print Driver            | v5.0.0.0  |  |
|                                  | Test files and location | Office category files, hard drive                     |  |