

# HP PageWide A3 printers: Claims summary



Color printing is within every business' budget with HP PageWide Technology. Produce low-cost, professional-quality color on sizes up to 11 x 17 inches (A3), and get the results you expect from HP for an exceptional value you can rely on.

The information below is provided to show the substantiation methodology for these and other HP PageWide A3 printer and MFP claims.

## Energy efficiency claims

### Less energy use than in-class lasers

Energy claim based on all TEC data reported on [energystar.gov](http://energystar.gov) as of November 2016. Data normalized to determine energy efficiency of in-class A3 color laser printers with published speeds of 20 to 80 ppm, excluding other HP PageWide products. Subject to device settings. Actual results may vary.

### Best in class energy efficiency

Energy claim based on TEC data reported on [energystar.gov](http://energystar.gov) as of March 2017. Data normalized to determine energy efficiency of in-class A3 color laser printers (\$1,500-\$2,999) and MFPs (\$3,000-\$7,499) as of February 2017, excluding other HP PageWide products. Subject to device settings. Actual results may vary.

### Typical Electricity Consumption (TEC) on a per-page basis

With the TEC measurement, it is difficult to compare the energy consumption of similar products that have differing speeds. As an example, a vendor may have an identical printer model where one is specified to operate at 25 pages per minute (ppm) and the other at 28 ppm. As per the Energy Star® test method the faster printer will inherently have a higher TEC since it has to print more pages. In this example, the 25 ppm printer is based on printing 1,500 pages per week while the 28 ppm printer is based on 1,960 pages per week.

In the table below, TEC is normalized to show the approximate amount of energy used per page to simplify comparing products with different speeds.

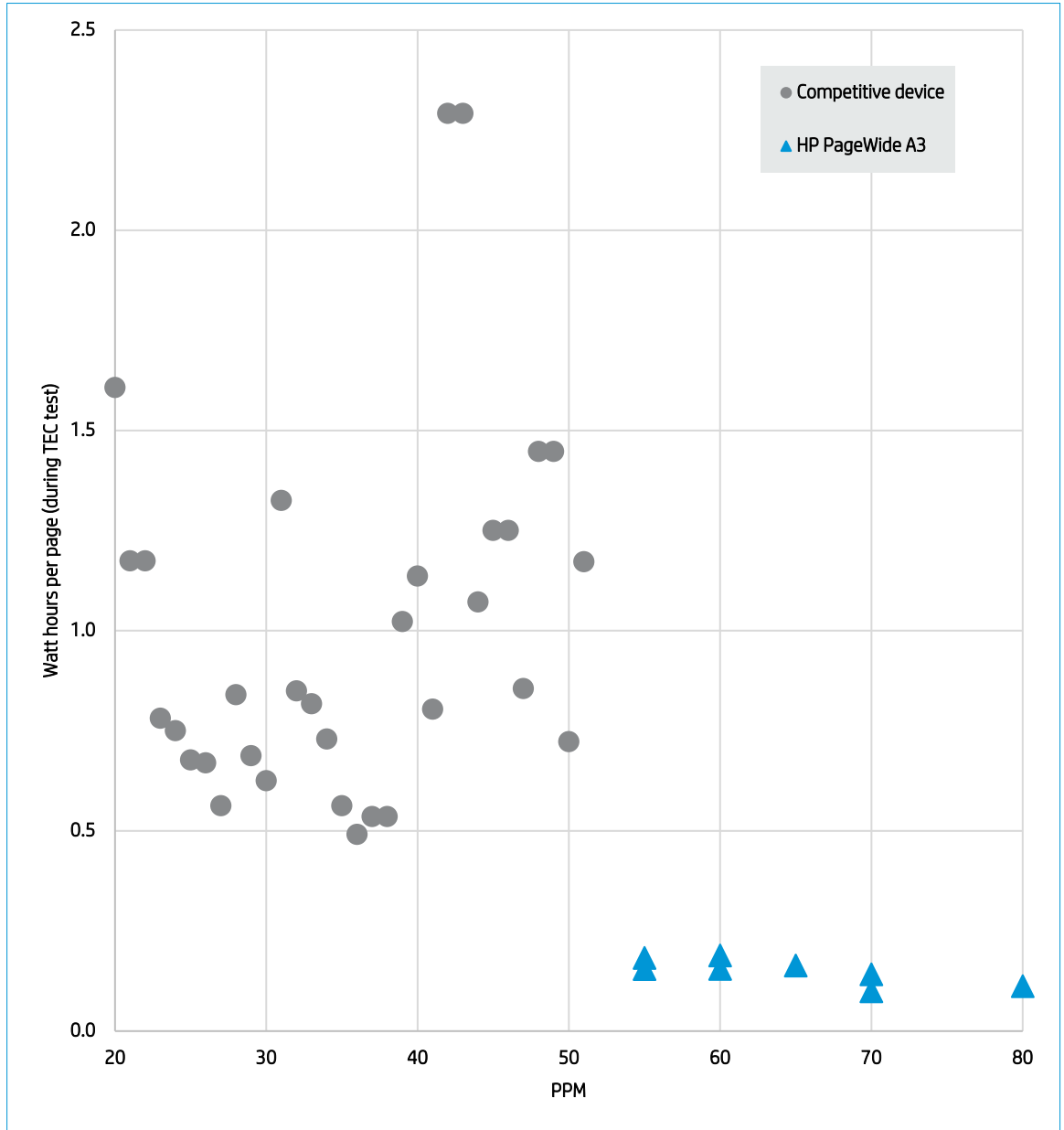
Table 1. Product comparison: Typical Electricity Consumption (normalized, lowest to highest)

Grouped vendor	Model name	Normalized TEC (watt hours per page)
HP	<a href="#">PageWide 75050dw</a>	0.099
HP	<a href="#">PageWide 77760z</a>	0.112
HP	<a href="#">PageWide 77750z</a>	0.142
HP	<a href="#">PageWide 750dw</a>	0.155
HP	<a href="#">PageWide 77740dw</a>	0.155
HP	<a href="#">PageWide 777z</a>	0.164
HP	<a href="#">PageWide 772dw</a>	0.183
HP	<a href="#">PageWide 77740z</a>	0.189

Grouped vendor	Model name	Normalized TEC (watt hours per page)
CANON	IMAGERUNNER ADVANCE C5560i	0.357
CANON	IMAGERUNNER ADVANCE C5550i	0.401
CANON	IMAGERUNNER ADVANCE C5250i	0.465
RICOH GROUP	MP C3003SP	0.491
CANON	IMAGERUNNER ADVANCE C5540i	0.500
CANON	IMAGERUNNER ADVANCE C5240A	0.500
CANON	IMAGERUNNER ADVANCE C5535i	0.526
CANON	IMAGERUNNER ADVANCE C3330i	0.536
RICOH GROUP	MP C3004 SP	0.536
RICOH GROUP	MP C3004A SP	0.536
KONICA MINOLTA	BIZHUB C368	0.563
RICOH GROUP	MP C2504 SP	0.563
CANON	IMAGERUNNER ADVANCE C5235A	0.592
CANON	IMAGERUNNER ADVANCE C5235	0.592
CANON	IMAGERUNNER ADVANCE C3325	0.625
CANON	IMAGERUNNER ADVANCE C3325I	0.625
CANON	IMAGERUNNER ADVANCE C2230	0.625
KYOCERA MITA	TASKALFA 3252CI	0.625
KONICA MINOLTA	BIZHUB C308	0.670
KONICA MINOLTA	BIZHUB C287	0.677
KYOCERA MITA	TASKALFA 2552CI	0.688
XEROX	WORKCENTRE 7845	0.723
RICOH GROUP	MP C2004SP	0.729
KONICA MINOLTA	BIZHUB C258	0.750
KONICA MINOLTA	BIZHUB C227	0.781
SHARP	MX-3050N	0.804
OKI	C911DN	0.817
KYOCERA	TASKalfa 4551ci	0.840
LEXMARK	C950DE	0.849
XEROX	WORKCENTRE 7835	0.855
SHARP	MX-2640N	1.023
XEROX	WORKCENTRE 7830	1.071
SHARP	MX-2615N	1.136
XEROX	PHASER 7800DX	1.172
HP	COLOR LASERJET ENTERPRISE FLOW M880Z	1.174
HP	COLOR LASERJET ENTERPRISE FLOW M880Z+	1.174
XEROX	PHASER 7100DN	1.250
XEROX	PHASER 7100N	1.250
LEXMARK	C925DTE	1.325
DELL	7130CDN	1.447
XEROX	PHASER 7500DN	1.447
XEROX	PHASER 7500N	1.447
HP	COLOR LASERJET ENTERPRISE M750N	1.563
HP	COLOR LASERJET ENTERPRISE M750DN	1.563

Grouped vendor	Model name	Normalized TEC (watt hours per page)
HP	LASERJET ENTERPRISE 700 COLOR M775F	1.607
HP	LASERJET ENTERPRISE 700 COLOR M775DN	1.607
HP	LASERJET ENTERPRISE 700 COLOR M775Z	1.607
HP	COLOR LASERJET MANAGED MFP M775FM	1.607
HP	COLOR LASERJET CP5225DN	1.667
XEROX	WORKCENTRE 7220	2.292
XEROX	WORKCENTRE 7220T	2.292

Figure 1. Product comparison: Normalized TEC, A3 color devices (from ENERGY STAR Database, 4/6/17)



## Cost per page claims

### Lowest cost per color page

Lowest cost per color page claim applies to devices that are not sold under contract: Comparison of HP PageWide A3 devices with the majority of in-class color ink/laser MFPs (\$3,000-\$7,499 and €2,820 - €7,049), and color ink/laser single function printers (\$1,500-\$2,999 and €1,410- € 2,819) as of January/February 2017; market share as reported by IDC as of Q4 2016. Cost per page (CPP) reported by gap intelligence Pricing & Promotions Report January/February 2017, comparisons for devices/supplies not sold under contract are based on published specifications of the manufacturers' highest-capacity cartridges, inclusive of long life consumables and page yield. Average HP yield based on ISO/IEC 24711 and continuous printing in default mode. Actual yield varies based on content of printed pages and other factors. For more information, see [hp.com/go/learnaboutequipment](http://hp.com/go/learnaboutequipment) and [hp.com/go/PageWideClaims](http://hp.com/go/PageWideClaims).

Table 2. Product comparison: Cost-per-page including long life consumables

Grouped vendor	Model name	Transactional pricing HP PW Color CPP + long life consumables
HP	PageWide Pro 750 dn/dw	\$0.072 / € 0.053
HP	PageWide Pro 772zs	\$0.072 / € 0.053
HP	PageWide Pro 772dn/dw	\$0.072 / € 0.053
HP	PageWide Pro 777z	\$0.072 / € 0.053
HP	PageWide Pro 777hc	\$0.072 / € 0.053
Grouped vendor	Average savings for HP PageWide vs. listed printers (ink/toner + long life consumables)	
CANON	IMAGERUNNER ADVANCE C2230	-72%
CANON	IMAGERUNNER ADVANCE C3325	-70%
CANON	IMAGERUNNER ADVANCE C3325I	-70%
CANON	IMAGERUNNER ADVANCE C3330I	-82%
CANON	IMAGERUNNER ADVANCE C5235	-66%
CANON	IMAGERUNNER ADVANCE C5235I	-80%
CANON	IMAGERUNNER ADVANCE C5240I	-77%
CANON	IMAGERUNNER ADVANCE C5250I	-76%
CANON	IMAGERUNNER ADVANCE C5535I	-86%
CANON	IMAGERUNNER ADVANCE C5540I	-86%
CANON	IMAGERUNNER ADVANCE C5550I	-86%
CANON	IMAGERUNNER ADVANCE C5560I	-86%
DELL	7130CDN	-23%
DEVELOP	INEO +227	-76%
DEVELOP	INEO +258	-74%
DEVELOP	INEO+ 308	-80%
EPSON	ACULASER C9300DN	-49%
EPSON	ACULASER C9300N	-49%
HP	COLOR LASERJET CP5225DN	-50%
HP	COLOR LASERJET ENTERPRISE M750DN	-35%
HP	COLOR LASERJET ENTERPRISE M750N	-35%
HP	COLOR LASERJET ENTERPRISE FLOW M880Z	-75%
HP	COLOR LASERJET ENTERPRISE FLOW M880Z+	-75%
HP	COLOR LASERJET ENTERPRISE M750N	-35%
HP	LASERJET ENTERPRISE 700 COLOR M775DN	-85%
HP	LASERJET ENTERPRISE 700 COLOR M775F	-80%
HP	LASERJET ENTERPRISE 700 COLOR M775Z	-82%

Grouped vendor	Average savings for HP PageWide vs. listed printers (ink/toner + long life consumables)	
KONICA MINOLTA	BIZHUB C227	-80%
KONICA MINOLTA	BIZHUB C258	-81%
KONICA MINOLTA	BIZHUB C287	-71%
KONICA MINOLTA	BIZHUB C308	-80%
KONICA MINOLTA	BIZHUB C368	-69%
KYOCERA DOC SOLUTIONS	TASKALFA 4551CI	-73%
KYOCERA MITA	TASKALFA 2552CI	-74%
KYOCERA MITA	TASKALFA 3252CI	-75%
LEXMARK	C925DTE	-57%
LEXMARK	X950DE	-74%
OKI	C911DN	-20%
OLIVETTI	D-COLOR MF254	-76%
RICOH	MP C3003SP	-79%
RICOH	MP C3004 SP	-66%
RICOH	MP C3004A SP	-66%
RICOH GROUP	MP C2004SP	-70%
RICOH GROUP	MP C2504 SP	-71%
RICOH GROUP	MP C3004 SP	-66%
SHARP	MX-2614N	-82%
SHARP	MX-2640N	-78%
SHARP	MX-3050N	-66%
TOSHIBA	E-STUDIO 2000AC	-71%
TOSHIBA	E-STUDIO 2050C	-69%
TOSHIBA	E-STUDIO 2500AC	-69%
TOSHIBA	E-STUDIO 2550C	-65%
XEROX	PHASER 7100DN	-46%
XEROX	PHASER 7100N	-46%
XEROX	PHASER 7500	-34%
XEROX	PHASER 7500DN	-34%
XEROX	PHASER 7800DN	-26%
XEROX	WORKCENTRE 7220	-82%
XEROX	WORKCENTRE 7220T	-71%
XEROX	WORKCENTRE 7830	-78%
XEROX	WORKCENTRE 7835	-76%
XEROX	WORKCENTRE 7845	-77%

## Consumables claims

### High-yield cartridges

High-yield cartridges are not included in printer purchase; purchase separately. Comparison is based on ISO 24711 cartridge yields for HP 990 series High Yield Original PageWide Cartridges compared with HP 990 series Original PageWide Cartridges. Learn more at [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies).

### General office mode

Comparison based on printing in Professional Mode.

### Fewer parts / Less maintenance

Fewer service parts claim based on BLI analysis of leading in-class A3 MFPs as of August 2016; calculations use publicly available and/or published manufacturer rated yields for long-life consumables and assume 600,000 pages printed (using a 60% black/40% color ratio); market share as reported by IDC as of Q3 2016. Learn more at [hp.com/go/learnaboutsupplies](http://hp.com/go/learnaboutsupplies).

**Table 3. Long life consumables that may be required for HP PageWide A3 printers**

Model name	Long life consumables
HP PageWide Pro 700 series	<a href="#">Printhead wiper kit</a> <a href="#">Service fluid container kit</a> <a href="#">Tray roller kit</a> <a href="#">Printhead assembly with service module</a>

**Table 4. Long life consumables required by most laser-class devices (quantities/types vary by brand and model)**

Long life consumables
Toner collection unit
Fuser maintenance kits
Drum units
Transfer maintenance kits
Waste container
Transfer belt unit
Transfer roller
Cleaning units
Fuser
Developer
Air filter
Fixing belt
Charge wire

## Print speed claims

### Up to 50% faster than competitors

Comparison of HP PageWide A3 devices with the majority of in-class color ink/laser MFPs (\$3,000-\$7,499 and €2,820-€7,049), and color ink/laser single function printers (\$1,500-\$2,999 and €1,410-€2,819) as of April 2017; market share as reported by IDC as of Q4 2016, excluding other HP PageWide products. HP PageWide speeds based on General Office mode and exclude first page. Learn more at [hp.com/go/printerspeeds](http://hp.com/go/printerspeeds).

**Table 5. Print speeds: Single-function A3 devices (\$1,500-\$2,999 and €1,410-€2,819)**

Vendor	Model name	Mono PPM	Color PPM
HP	<a href="#">PageWide Pro 750 dn/dw</a>	55	55
RICOH	SP C841M	55	55
RICOH	SP C841	55	55
FUJI XEROX	DOCUPRINT C5005D	55	50
FUJI XEROX	DOCUPRINT C5000D	55	50
OKI	C911DN	50	50

Vendor	Model name	Mono PPM	Color PPM
RICOH	IPSIO SP C831	50	50
CANON	LBP-9900C	50	45
KYOCERA DOC SOLUTIONS	LS-C8600DN	45	45
LEXMARK	C950DE	50	45
RICOH	SP C840M	45	45
RICOH	SP C840	45	45
XEROX	PHASER 7800DN	45	45
FUJI XEROX	DOCUPRINT C4000D	40	40
NEC	MULTIWRITER 9600C	40	40
RICOH	IPSIO SP C830	40	40
RICOH	IPSIO SP C830M	40	40
RICOH	AFICIO SP C830DN	40	40
CASIO	SPEEDIA GE6000	38	38
DELL	7130CDN	35	35
EPSON	LP-S9000	35	35
OKI	COREFIDO C841DN	35	35
XEROX	PHASER 7500DN	35	35
CASIO	SPEEDIA GE5000-Z	32	32
CASIO	SPEEDIA GE5500	32	32
RICOH	IPSIO SP C810 ME V2	32	32
LEXMARK	C925DTE	31	31
CANON	LBP-5910	32	30
EPSON	ACULASER C9300DN	30	30
EPSON	ACULASER C9300N	30	30
HP	COLOR LASERJET ENTERPRISE M750DN	30	30
HP	COLOR LASERJET ENTERPRISE M750N	30	30
OKI	C831DN	32	30
OKI	ES8431	30	30
XEROX	PHASER 7100DN	30	30
XEROX	PHASER 7100N	30	30
CANON	LBP841CDN	26	26
CANON	LBP9100CDN	20	20
HP	COLOR LASERJET CP5225DN	20	20
HP	COLOR LASERJET CP5225N	20	20
HP	COLOR LASERJET CP5225	20	20
FUJI XEROX	DOCUPRINT C2255	25	14

Table 6. Print speeds: Multi-function A3 devices (\$3,000-\$7,499 and €2,820-€7,049)

Vendor	Model name	Mono PPM	Color PPM
HP	<a href="#">PageWide Pro 772zs</a>	55	55
HP	<a href="#">PageWide Pro 772dn/dw</a>	55	55
HP	<a href="#">PageWide Pro 777z</a>	65	65
HP	<a href="#">PageWide Pro 777hc</a>	65	65
CANON	IMAGERUNNER ADVANCE C5560I	60	60
CANON	IMAGERUNNER ADVANCE C5550I	50	50

Vendor	Model name	Mono PPM	Color PPM
KYOCERA DOC SOLUTIONS	TASKALFA 5052CI	50	50
LEXMARK	X950DE	50	45
HP	COLOR LASERJET ENTERPRISE FLOW M880Z	45	45
CANON	IMAGERUNNER ADVANCE C5540I	40	40
XEROX	WORKCENTRE 7845	40	40
KONICA MINOLTA	BIZHUB C368	36	36
CANON	IMAGERUNNER ADVANCE C5535I	35	35
CANON	IMAGERUNNER ADVANCE C5235I	35	35
CANON	IMAGERUNNER ADVANCE C5235	35	35
XEROX	WORKCENTRE 7835	35	35
KYOCERA DOC SOLUTIONS	TASKALFA 3252CI	32	32
AURORA	ADC307	30	30
CANON	IMAGERUNNER ADVANCE C3330I	30	30
DEVELOP	INEO+ 308	30	30
HP	LASERJET ENTERPRISE 700 COLOR M775DN	30	30
HP	LASERJET ENTERPRISE 700 COLOR M775F	30	30
HP	LASERJET ENTERPRISE 700 COLOR M775Z	30	30
KONICA MINOLTA	BIZHUB C308	30	30
RICOH	MP C3004 SP	30	30
RICOH	MP C3004A SP	30	30
SHARP	MX-3050N	30	30
SHARP	MX-3060N	30	30
XEROX	WORKCENTRE 7830	30	30
KONICA MINOLTA	BIZHUB C287	28	28
SHARP	MX-2614N	28	26
CANON	IMAGERUNNER ADVANCE C3325	25	25
DEVELOP	INEO +258	25	25
FUJI XEROX	DOCUCENTRE-V C2265	25	25
KONICA MINOLTA	BIZHUB C258	25	25
KYOCERA DOC SOLUTIONS	TASKALFA 2552CI	25	25
RICOH	MP C2504 SP	25	25
SHARP	MX-2517FN	25	25
KONICA MINOLTA	BIZHUB C227	22	22
CANON	IMAGERUNNER ADVANCE C3320	20	20
FUJI XEROX	DOCUCENTRE-V C2263 CP	20	20
RICOH	MP C2004SP	20	20
TOSHIBA	E-STUDIO 2000AC	20	20
XEROX	WORKCENTRE 7220	20	20
RICOH	MP C1803 SPF	18	18



## Clean room claims

### Meets standard for ISO class 5 cleanrooms

Evaluation according to standard ISO 146441:1999.

As there are no recognized particle release requirements for printing systems to be used in clean room applications, HP established an indicator-type test to evaluate the qualification of HP printing systems for such environments. A single device of the printing series is tested in a 32 m<sup>3</sup> dynamic environmental chamber in accordance with ASTM D6670 and with an air exchange rate of one air change per hour. The number of particles is determined in the size range of 0.5 µm or greater to 5.0 µm or greater in diameter in the empty chamber as well as before (ready phase), during, and after printing (printing phase). To establish the background level, 120 particle measurements were conducted at 1-minute intervals in the empty chamber. Subsequently, one series device was placed in the chamber and a 24-hour equilibration period followed. In the ready phase, 16 particle measurements were made at 1-minute intervals prior to printing, with the device just powered on. For the printing phase, testing is based on the device printing a single 10-page print job. During and after printing, particle numbers were collected for 240 measurements at 1-minute intervals.

On this basis, HP compares the measured particle concentrations with the ISO standard 14644-1:1999 to classify the clean room status of the chamber environment. Although this standard does not apply to products to be used in clean rooms, it does enable a classification of respective environments with a product in use.

Please note that there is no clean room certification for printing systems available. But for well-grounded purchase decisions, customers need testing results of the devices' particle contribution to indoor air. For this reason HP offers this clean room printing information for the HP PageWide series of office printers when operated as intended with original HP printing supplies.

## Miscellaneous claims

### Print Microsoft® Word and PowerPoint® files from USB

Feature works with Microsoft Word and PowerPoint 2003 and later. Only Latin language fonts are supported.

### Wireless printing

Wireless performance is dependent on physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz routers only.

### NFC Touch-to-print

Requires a compatible NFC-printing-enabled mobile device. For a list of compatible NFC-printing-enabled mobile devices, see [hp.com/go/nfcprinting](http://hp.com/go/nfcprinting).

### Bluetooth Low Energy

Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.

### HP Universal Print Driver

The HP Universal Print Driver is available for download at no additional charge at [hp.com/go/upd](http://hp.com/go/upd).

### Optional proximity card reader

Additional solution such as HP Access Control or HP JetAdvantage Private Print is required to use optional proximity card reader.

### HP JetAdvantage Security Manager

Requires separate purchase. For details, see [hp.com/go/securitymanager](http://hp.com/go/securitymanager).

### HP Web Jetadmin

HP Web Jetadmin is available for download at no additional charge at [hp.com/go/webjetadmin](http://hp.com/go/webjetadmin).

### HP JetAdvantage On Demand

Based on an HP assessment of print manufacturers SaaS offerings as of September 1, 2016, no other print manufacturer offers a single platform for user and app management. Requires Internet access. Supported browsers include Microsoft Internet Explorer® 9–11, Google Chrome™ 9 and newer, Mozilla® Firefox® 4 and newer, and Safari® 5 and newer. Compatible with select HP LaserJet, PageWide, OfficeJet Pro, and Digital Sender Flow devices that can connect to the Internet. May require a firmware upgrade. Learn more at [hp.com/go/jetadvantageondemand](http://hp.com/go/jetadvantageondemand).

### HP Color Access Control

Color-access-control capabilities vary from device to device. HP Color Access Control available only on HP PageWide Pro devices with a 4.3-inch touchscreen. Learn more at [hp.com/go/pagewidebusiness](http://hp.com/go/pagewidebusiness).

### Extensibility through Hardware Integration Pocket (HIP)

Solutions deployed through the Hardware Integration Pocket (HIP) may require additional purchase. For a select list of supported solutions, see [hp.com/go/gsc](http://hp.com/go/gsc).

### HP Planet Partners

Program availability varies. For more information, visit [hp.com/recycle](http://hp.com/recycle).

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