HP Color LaserJet Pro MFP M277 series



Big on performance. Small on size.

You'd never expect this much performance from such a small package. This loaded MFP and Original HP Toner cartridges with JetIntelligence combine to give you the tools you need to get the job done.





HP Color LaserJet Pro MFP M277dw

Control panel view

Highlights

- Print, copy, scan, fax, web, apps
- Up to 18 ppm A4 black & colour
- First Page Out: < 12 sec black, 13 sec
- Gigabit Ethernet, Wireless (M277dw)
- Automatic two-sided printing (M277dw)
- 7.6 cm colour touchscreen with apps
- <1 watt with Auto-On/Off and Wake on LAN
- Scan-to-email, -folder, -cloud; 50-sheet ADF
- HP ePrint, AirPrint, Google Cloud Print. Wi-Fi Direct/NFC, Mopria-certified, Mobile **Apps**

Accomplish more with your time.

- Create professional-quality colour documents and speed through tasks with super-fast two-sided printing.1,2
- Choose the MFP that's the smallest in its class and prints from sleep mode faster than comparable devices.2
- Access time-saving apps from the 7.6 cm touchscreen and scan directly to email, network folders and the cloud.3
- Easily print Microsoft® Word and PowerPoint® documents now directly from your USB drive.4

Rely on easy mobile printing options.

- Print to this MFP with just a touch of your NFC-enabled mobile device no network needed.5
- Count on wireless direct printing in the office from mobile devices without accessing the company network.6
- Easily print from a variety of smartphones and tablets generally no setup or apps required.7

Get more pages, performance and protection.

- Get more pages than ever before, using Original HP High-Yield Colour Toner cartridges
- Count on professional quality at high speeds high-impact powerful toner works best with your HP printer.
- Get the authentic HP quality you paid for with anti-fraud technology.
- Print right away with preinstalled toner cartridges. Replace them with optional high-yield cartridges.9

Meet everyday IT challenges head-on.

- Safeguard data and easily manage devices with a suite of essential security and management features.
- Easily access, print and share resources with Ethernet and wireless networking.10
- Increase security, restore control and help avoid additional expenses with HP JetAdvantage Private Print.11













Product walkaround

HP Color LaserJet Pro MFP M277dw shown:

- 1. Intuitive 7.6 cm colour touchscreen tilts up for easier viewing
- 2. 50-sheet automatic document feeder (ADF)
- 3. Flatbed scanner handles up to 216 x 356 mm paper
- 4. 100-sheet output bin
- 5. Near field communication (NFC) internal antenna
- 6. Output bin extension
- 7. Power on/off button

- Built-in automatic two-sided printing
 Easy-access USB port for printing and scanning without a computer
 Front door access to Original HP Toner cartridges with JetIntelligence
- 11. Single-sheet priority feed slot
- 12. 150-sheet main input tray 2 13. Hi-Speed USB 2.0 printing port
- 14. Fast Ethernet network port 15. 800 MHz processor, 256 MB RAM

- 16. Built-in wireless networking
 17. Fax "line in" port
 18. Telephone "line out" port
 19. Rear door (provides access for clearing jams)





Series at a glance





Model	HP Color LaserJet Pro MFP M277n	HP Color LaserJet Pro MFP M277dw
Product number	B3Q10A	B3Q11A
Functions	Print, copy, scan, and fax	Print, copy, scan, and fax
Two-sided printing	Manual	Automatic
50-sheet automatic document feeder (ADF)	Yes	Yes
7.6 cm color touchscreen with apps	Yes	Yes
Supported file formats to print directly from Supported file formats to print directly from USB	.ppt, .doc, .pdf, .jpg	.ppt, .doc, .pdf, .jpg
Networking	Fast Ethernet	Fast Ethernet, wireless 802.11b/g/n
Mobile printing capability	HP ePrint, Apple AirPrint, Mopria-certified	NFC touch-to-print, wireless direct printing, HP ePrint, Apple AirPrint, Mopria-certified

Accessories, Supplies and Support

Supplies	CF400A P 201A Black Original LaserJet Toner Cartridge 1,500 pages		
	CF400X HP 201X High Yield Black Original LaserJet Toner Cartridge 2,800 pages CF401A HP 201A Cyan Original LaserJet Toner Cartridge 1,400 pages		
	CF401X HP 201X High Yield Cyan Original LaserJet Toner Cartridge 2,300 pages		
	CF402A HP 201A Yellow Original LaserJet Toner Cartridge 1,400 pages		
	CF402X HP 201X High Yield Yellow Original LaserJet Toner Cartridge 2,300 pages		
	CF403A HP 201A Magenta Original LaserJet Toner Cartridge 1,400 pages		
	CF403X HP 201X High Yield Magenta Original LaserJet Toner Cartridge 2,300 pages		
	CG964A HP Professional Glossy Laser Paper 120 gsm-250 sht/A4/210 x 297 mm		
	CG965A HP Professional Glossy Laser Paper 150 gsm-150 sht/A4/210 x 297 mm		
	CG966A HP Professional Glossy Laser Photo Paper 200 gsm-100 sht/A4/210 x 297 mm		
	CHP340 HP Color Laser Paper 120 gsm-250 sht/A4/210 x 297 mm		
	Q6550A HP Professional Matt Laser Photo Paper-100 sht/A4/210 x 297 mm		
Service and support	UX453E HP 3 year Service Plan with Standard Exchange for Color LaserJet MFP Printers UX435E HP 3 year Service Plan with Next business day Exchange for Color LaserJet MFP Printers (UX453E: all EMEA, UX435E: only Austria, Baltics, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, UK, Czech, Greece, Hungary, Poland, Slovakia)		

Technical specifications

Model	HP Color LaserJet Pro MFP M277n	HP Color LaserJet Pro MFP M277dw
Product number	B3Q10A	B3Q11A
Functions	Print, copy, scan, fax	Print, copy, scan, fax
Print speed ⁷	Up to 18 ppm black (A4); Up to 18 ppm colour (A4); Up to 11 ipm black duplex (A4); Up to 11 ipm colour duplex (A4)	
First page out time ⁸	As fast as 11.5 sec black (A4, ready); As fast as 13 sec colour (A4, ready)	
Print resolution	Up to 600 dpi black; Up to 600 dpi colour; Print resolution technologies: HP ImageREt 3600	
Print technology	Laser	
Print Area	Print margins: Top: 4.3 mm; Bottom: 4.3 mm; Left: 4.3 mm; Right: 4.3 mm; Maximum print area: 207.5 x 347.5 mm	
Print languages	HP PCL 6, HP PCL 5c, HP Postscript Level 3 emulation, PCLm, PDF, URF, Native Office	
Printer Smart Software Features	HP JetAdvantage Private Print, HP ePrint, Apple AirPrint™, Mopria-certified, Instant-on Technology, HP Auto-On/Auto-Off Technology	Touch to print, Wireless Direct Printing, HP JetAdvantage Private Print, Scan to cloud, Sca to network, Scan to email, HP ePrint, Apple AirPrint™, Mopria-certified, Instant-on Technology, HP Auto-On/Auto-Off Technology
Monthly duty cycle	Up to 30,000 pages (A4); Recommended monthly page volume: 250 to 2,500	
Duplex printing	Manual	Automatic (standard)
Fonts and typefaces	84 scalable TrueType fonts. Additional Font Solutions available at http://www.hp.com/go/laserjetfonts	
Processor speed	800 MHz	
Connectivity	Standard: Hi-Speed USB 2.0 port; Built-in Fast Ethernet 10/100/1000 Base-TX network port; Host USB	Standard: Hi-Speed USB 2.0 port; Wireless 802.11b/g/n; Built-in Fast Ethernet 10/100/1000 Base-TX network port; Host USB
Network ready	Standard built-in Ethernet	Standard built-in Ethernet 802.11 b/g/n. Wi-Fi operates as both an AP (with Wi-Fi Direct) and STA
Memory	Standard: 256 MB; Maximum: 256 MB	
Copier settings	Number of copies; Reduce/Enlarge; Lighter/Darker; Optimise; Paper; Multi-page Copy; Collation; Tray Select; Two-sided; Draft Mode; Image Adjustment; Set as New Defaults; Restore Defaults; Maximum number of copies: Up to 99 copies: Copy resolution: Up to 300 x 420 dpi Copier resize: 25 to 400%	
Copy speed ⁹	Up to 18 cpm black (A4); Up to 18 cpm colour (A4)	
Scanner specifications	Scanner type: Flatbed, ADF; Scan technology: Contact Image Sensor (CIS); Scan input modes: Front-panel scan, copy, email, fax or file buttons; HP Scan software; User application via TWAIN or WIA; Twain version: Version 1.9; Duplex ADF scanning: No; Scan isze maximum (flatbed, ADF): 216 x 297 mm; Optical scan resolution: Up to 300 x 300 dpi (colour and mono ADF): Up to 300 x 300 dpi, 600 x 600 dpi, 1200 x 1200 dpi (Flatbed) Scan technology: Contact Image Sensor (CIS) Scan technology: Contact Image Sensor (CIS)	
Scan file format	PDF, searchable PDF, JPG, RTF, TXT, BMP, PNG, TIFF	PDF, searchable PDF, JPG, RTF, TXT, BMP, PNG, TIFF
Scan Type / Technology	Flatbed, ADF	Flatbed, ADF
Scan speed ¹⁰	Up to 21 ppm (monochrome), up to 14 ppm (colour)	Up to 21 ppm (monochrome), up to 14 ppm (colour)
Scannable area	Flatbed: Minimum media size: 54 x 70 mm; Maximum media size: 216 x 297 mm Scannable area (ADF): Minimum media size: 102 x 152 mm; Maximum media size: 216 x 356 mm	
Scanner Advanced Features	HP Scanning software, Scan key on touchscreen for Scan-to-USB flash drive (PDF and JPEG), Scan-to-Email, Scan-to-folder, 50-sheet Automatic Document Feeder (ADF) for unattended scanning of multiple pages, Automatic scan calibration, cropping and image enhancement	HP Scanning software, Scan key on touchscreen for Scan-to-USB flash drive (PDF and JPEG), Scan-to-Email, Scan-to-folder, 50-sheet Automatic Document Feeder (ADF) for unattended scanning of multiple pages, Automatic scan calibration, cropping and image enhancement
Bit depth/ Grey scale levels	30-bit/ 256	
Digital sending	Standard: Scan to email, scan to folder, scan to USB drive	Standard: Scan to email, scan to folder, scan to USB drive
Fax	Yes; 33.6 kbps	Yes; 33.6 kbps
Telecom compliance	ES 203 201; EN 301 489-1 v1.9.2 / EN 301 489-17 V2.2.1 (2012-09); EN 300 328 v1.8.1; IC: RSS 210; EN 62311:2008 / IEC 62311:2007; R&TTE Directive 99/05/EC -European Union; IEC 62311:2007 / EN 62311:2008	
Fax specifications	Fax memory: Up to 400 pages; Fax resolution: Standard: 203 x 96 dpi; Fine: 203 x 192 dpi; Superfine: 300 x 300 dpi; Quick dialing: Up to 120 numbers	
Fax smart software features	Permanent fax memory backup, Auto fax reduction, Auto redialling, Delayed sending, Fax forwarding, TAM interface, Polling, Junk barrier, Distinctive ring detection, Cover page wizard (software only), Block fax, Billing codes, Save and load, Poll receive, Fax activity reports, Dial prefix setting, Receive to PC (not available with Macintosh), Print fax log	
Media types	Paper (brochure, inkjet, plain), photo paper (borderless, HP Premium, panoramic, plus tab), envelopes, labels, cards (greeting, index), transparencies	
Paper size	Custom metric: 76.2 x 127 to 215.9 x 355.6 mm Supported metric: A4, A5, A6, B5, B6, 10 x 15 cm, Postcards (JIS), Envelopes (DL, C5, B5) ADF: A4, 101 x 152 to 216 x 355 mm	Custom metric: 76.2 x 127 to 215.9 x 355.6 mm Supported metric: A4, A5, A6, B5, B6, 10 x 15 cm, Postcards (JIS), Envelopes (DL, C5, B5) ADF: A4, 101 x 152 to 216 x 355 mm

Model	HP Color LaserJet Pro MFP M277n	HP Color LaserJet Pro MFP M277dw	
Product number	B3Q10A	B3Q11A	
Paper handling	Standard input: 150-sheet input tray, multipurpose tray Standard output: 100-sheet output tray ADF: Standard, 50 sheets	Standard input: 150-sheet input tray, multipurpose tray Standard output: 100-sheet output tray ADF: Standard, 50 sheets	
Input capacity	Tray 1: Multipurpose tray (Tray 1): 1 sheet Tray 2: Standard input (Tray 2): 150 sheets Standard/Maximum: Up to 150 sheets in Tray 2	Tray 1: Multipurpose tray (Tray 1): 1 sheet Tray 2: Standard input (Tray 2): 150 sheets Standard/Maximum: Up to 150 sheets in Tray 2	
Output capacity	Standard: Up to 100 sheets; 10 mm stack height; 10 mm stack height Transparancies Maximum: Up to 100 sheets	Standard: Up to 100 sheets; 10 mm stack height; 10 mm stack height Transparancies Maximum: Up to 100 sheets	
Paper weight	52 to 163 g/m² (uncoated/matte, recommended), up to 175 g/m² postcards, 200 g/m² HP Matte; 60 to 163 g/m² (coated/glossy, recommended), up to 175 g/m² postcards, 220 g/m² HP GlossyADF: 60 to 90 g/m²		
Supported network protocols	TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv1, SNMPv2, SNMPv3, HTTP		
Compatible operating systems ¹¹	Windows: Windows 8.1 64-bit, Windows 8 Basic 32-bit and 64-bit, Windows 8 Pro 32-bit and 64-bit, Windows 8 Enterprise 32-bit and 64-bit, Windows 8 Enterprise N 32-bit and 64-bit, Windows 7 (including Starter Edition 32-bit), Windows 7 (including Starter Edition 32-bit), Windows Vista 64-bit; Mac: 05 X 10.7 Lion, 05 X 10.8 Mountain Lion, 05 X 10.9 Mavericks; Mobile Operating Systems: i05, Android, Windows 8 RT; Other: Debian (5.0, 5.0.1, 5.0.2, 5.0.3) (supported by the automatic installer), Fedora (9, 9.0, 10, 10.0, 11.0, 11, 12, 12.0), HPUX 11 and Solaris 8/9, Linux (9.4, 9.5), Red Hat Enterprise Linux 5.0 (supported with a pre-built package), SUSE Linux (10.3, 11.0, 11, 11.1, 11.2), Ubuntu (8.04, 8.04.1 8.04.2, 8.10, 9.04, 9.10, 10.04)		
Compatible network operating systems	32-bit, Windows Server 2008 SP2 32-bit and 64-bit, Windows Server 2008 Terminal Servic only, Windows Server 2008 R2 SP1 64-bit only, Windows Server 2008 Enterprise Edition 64 Standard Edition / Enterprise Edition 32-bit and 64-bit, Windows Server 2003 Enterprise Edition Windows Server 2003/2008 - Cluster Support 32-bit and 64-bit; Citrix MetaFrame XP Pres Presentation Server 3.0, Citrix Microsoft Windows Server 2008 Terminal Services, Citrix MS (32-bit and 64-bit), Citrix MS Windows Server 2008 R2 Terminal Services, Citrix MS Windows	1-bit, Windows Server 2003 Standard Edition 32-bit and 64-bit, Windows Server 2003 R2 dition 32-bit and 64-bit, Windows Server 2003/2008 R2 - Cluster Support 32-bit and 64-bit, entation Server Feature Release 1, 2 and 3 (32-bit and 64-bit), Citrix MetaFrame® Windows Server 2003 Terminal Services, Citrix MS Windows Server 2003 Terminal Services so Server 2008 Terminal Services (32-bit and 64-bit), Citrix Presentation Server 4.0, Citrix on Server 17M 4.5, Citrix XenApp 5.0, Citrix XenApp 5.0, Citrix XenApp 5.0 Feature Pack 2 and 3 pp 6.0, Citrix XenApp 5.5, Citrix XenApp 5.5, Citrix XenApp 5.8, Citrix XenApp 5.8, Citrix XenApp 5.9, Minimum for full Windows 7, 12, 12, 12, 12, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	
Mobile printing capability	HP ePrint, Apple AirPrint™, Mopria-certified, mobile apps	HP ePrint, Wi-Fi Direct Printing, Apple AirPrint™, Mopria-certified, mobile apps	
Minimum system requirements	Windows: Windows 8.1 64-bit, Windows 8 Enterprise 32-bit and 64-bit, Windows 8 Enterprise N 32-bit and 64-bit, Windows 8 For 32-bit and 64-bit, Windows 8 Rose 32-bit and 64-bit, Windows 7 (including Starter Edition 32-bit), Windows 9 Kaster Edition 32-bit, Windows		
Software included	Inbox CD (Windows Partition): HP Installer/Uninstaller, HP PCL 6 print driver, DXP (Device Experience), User Guide, HP Send Fax, HP Device Toolbox, HP Fax Print Driver, HP Fax Setup Wizard, HP Product Improvement Study, HP Scan, HP TWAIN & WIA Scan Drivers, Scan to email setup Wizard, Scan to folder setup Wizard, HP Update, Product Registration Assist, HP Web Services Assist (HP Connected), NET 3.5 SP1 (only installed for older Windows operating systems that lack); Inbox CD (Mac Partition): Welcome Screen (redirects users to http://www.hp.com or OS App Source for HP LaserJet Software)		
Security management	Embedded Web Server: password-protection, secure browsing via SSL/TLS; Network: enable/disable network ports and features, SNMPv1 & SNMPv2 community password change; HF ePrint: HTTPS with certificate validation, HTTP Basic Access Authentication, SASL authentication; LDAP authentication and authorization; Firewall and ACL; SNMPv3		
Printer management	Printer Administrator Resource Kit (Driver Configuration Utility, Driver Deployment Utility, M Imaging and Printing Security Center; HP Utility (Mac); HP Device Toolbox	anaged Printing Administrator); HP Web JetAdmin Software; HP Proxy Agent Software; HP	
Control panel	7.6 cm intuitive touchscreen control panel with colour graphic display; 3 buttons (Home, He	lp, Back)	
Printer dimensions (W x D x H)	Minimum: 420 x 384 x 322 mm Maximum: 420 x 849 x 578 mm	Minimum: 420 x 417 x 322 mm Maximum: 420 x 1002 x 57.8 mm	
Package dimensions (W x D x H)	498 x 398 x 490 mm	498 x 398 x 532 mm	
Printer Weight	15.3 kg	16.3 kg	
Package weight	20.2 kg	21.2 kg	
Operating environment	Temperature: 15 to 30°C; Humidity: 10 to 80% RH		
Storage	Temperature: -20C to 40°C; Humidity: 0 to 95% RH		
Acoustics ⁶	Acoustic power emissions: 6.4 B(A) (printing at 18 ppm); Acoustic power emissions (ready): Inaudible; Acoustic power emissions (active copy): 6.4 B(A) (copying at 18 ppm); Acoustic power emissions (active scan): 6.0 B(A); Acoustic pressure emissions: 50 dB(A)Acoustic pressure emissions bystander (active, printing): 50 dB(A); Acoustic pressure emissions bystander (active copy): 50 dB(A); Acoustic pressure		
Power	Requirements: Input voltage: 220 to 240 VAC (+/- 10%), 50 Hz (+/- 3 Hz) Consumption: 365 watts (print/copy), 10.5 watts (ready), 2.7 watts (sleep), 1.73 watts (Blue Angel sleep), 0.1 watts (auto-off/manual-on), 0.97 watts (HP Auto-Off/Auto-On - Wake on LAN), 0.1 watts (manual-off) Power supply type: Built-in power supply Typical Electricity Consumption (TEC): 1.026 kWh/Week	Consumption: 365 watts (print/copy), 10.5 watts (ready), 2.7 watts (sleep), 2.69 watts (Blue Angel sleep), 0.1 watts (auto-off/manual-on), 0.97 watts (HP Auto-Off/Auto-On - Wake on LAN), 0.1 watts (manual-off)	
Energy savings feature technology	HP Auto-On/Auto-Off Technology; Instant-on Technology		
Typical Electricity Consumption (TEC)	1.026 kWh/Week		
Certifications	CISPR 22:2008 Class B, EN 55022:2010 Class B, EN 55024:2010, EN 61000-3-2:2006 +A1:2009 +A2:2009, EN 61000-3-3:2008		
Warranty	One-year exchange warranty. Warranty and support options vary by product, country and local legal requirements.		
What's in the box	HP Color LaserJet Pro MFP M277n Printer; HP 201A Black Original Laser Jet Cartridge (~1,500 yield) and Introductory HP LaserJet Color cartridges (~700 colour composite (C/Y/M) yield); Installation guide; Printer documentation and software on CD-ROM; Power	HP Color LaserJet Pro MFP M277dw Printer; HP 201A Black Original LaserJet Cartridge (~1,500 yield) and Introductory HP LaserJet Color cartridges (~700 colour composite (L/)/M) yield); Installation guide; Printer documentation and software on CD-ROM; Pow	

Footnotes

Duplex printing is only available for the HP Color Laser Jet Pro M277dw.; ²Comparison based on manufacturers' published specifications (as of November 2014) and includes colour laser multifunction printers (MFPs) with print speed between 11 and 20 pages per minute (ppm).; ³Requires a wireless access point and an Internet connection to the printer. Services require registration. App availability varies by country, language and agreements. For details, visit http://www.hpconnected.com.; ⁴Microsoft and PowerPoint are U.S. registered trademarks of the Microsoft group of companies. Feature works with Microsoft Word and PowerPoint 2003 and later. Only Latin language fonts are supported.; ⁵Feature is only available for the HP Color Laser Jet Pro M277dw. Requires a compatible near-field communications (NFC)-printing-enabled mobile device, see http://www.hp.com/go/nfcprinting, ⁶Feature is only available for the HP Color Laser Jet Pro M277dw. Mobile device must be connected directly to the printer's wireless network prior to printing. Depending on mobile device, an app or driver may also be required. Wireless performance is dependent on physical environment and distance from the access point in the printer.; ⁷Local printing requires mobile device and printer to be on the same wireless network or have a direct wireless connection. Wireless performance is dependent on physical environment and distance from access point. Wireless operations are compatible with 2.4 GHz operations only. Remote printing requires an Internet connection to an IPD Web-connected printer. App or software and HP ePrint account registration may also be required. Wireless broadband use require separately purchased service contract for mobile devices. Check with service provider for coverage and availability in your area. See http://www.hp.com/go/mobileprinting for more details. Some features require purchase of optional module; ⁸Based on cartridge yields for HP 131A compared with HP 201X Ori

Technical specifications disclaimers

'Introductory cartridges included, ~1,500 page yield black and ~700 page yield colour composite (C/Y/M).; 'Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty; 'Replacement 201A cartridge average composite (C/Y/M) declared yield ~1,400 and average black yield ~1,500 pages based on ISO/IEC 19798 and continuous printing. Actual yields vary considerably based on images printed and other factors. For details, see http://www.hp.com/go/learnaboutsupplies.; 'BP SureSupply aletts you when your print cartridge is running low and helps you purchase online or locally through HP or a participating retailer. For more information, visit http://www.hp.com/go/SureSupply. Only available with Original HP supplies. Internet access required.; 'Acoustic values are subject to change. For current information, see hpc.om/support. Configuration tested: M277dw model, simplex printing or copying, A4 paper at an average of 18 ppm; 'Measured using ISO/IEC 24734, excludes first set of test documents. For more information, see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver and document complexity; 'Measured using ISO/IEC 17629. For more information, see http://www.hp.com/go/printerclaims. Exact speed varies depending on the system configuration, software application, driver and document complexity; 'Pirst 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, software application, oriver and document complexity; 'Pirst 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 scan resolution, network conditions, computer performance and application on software applicati

















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