



DEFEND YOUR NETWORK WITH THE WORLD'S MOST SECURE LARGE FORMAT PRINTERS¹

Firewalls alone cannot withstand attacks from sophisticated hackers. You must apply multiple layers of protection at every infrastructure endpoint. Help protect your devices, data, and documents with security solutions from HP.



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Only 22% of companies monitor printers for threats²

“TESTAMENT TO ITS LONG-TERM INVESTMENT IN PRINT SECURITY, HP HAS THE BROADEST AND DEEPEST PORTFOLIO OF SECURITY SOLUTIONS AND SERVICES IN THE MARKET.”

– QUOCIRCA, JAN 2017³

Printer security threats

Recognize hidden risks

Although many IT departments rigorously apply security measures to individual computers, printing and imaging devices are often overlooked and left exposed. When there are unsecured devices present, the entire network can be exposed to a cybersecurity attack.

Understand potential costs

If private information is jeopardized due to unsecured printing and imaging, the ramifications could include identity theft, stolen competitive information, a tarnished brand image and reputation, and litigation. Plus, regulatory and legal noncompliance can result in heavy fines.

HP can help

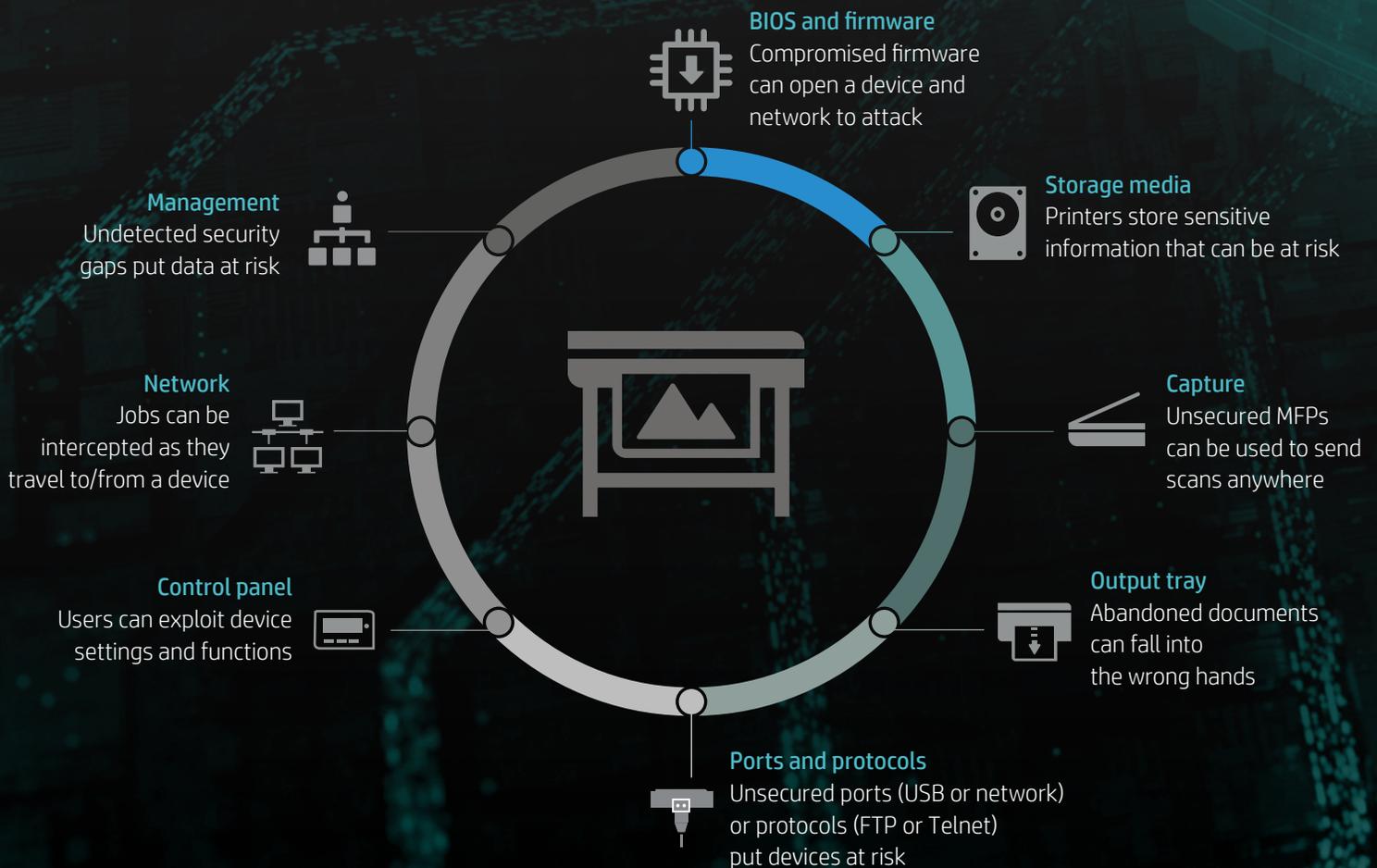
Defend your network with the world’s most secure large-format printers.¹ HP can help you automate device, data, and document protection with a broad portfolio of solutions.

Defend your devices, data, and documents

Critical gaps can occur at multiple points within your imaging and printing environment. Once you understand these vulnerabilities, you can more easily reduce the risks.



IMAGING AND PRINTING VULNERABILITY POINTS





78%

of companies
don't monitor their printers
for security threats²



Protect the device

HP Secure Boot

The BIOS is a set of instructions used to load critical hardware components and initiate firmware during startup. Thanks to HP Secure Boot, the integrity of the code is validated at every boot cycle—helping to safeguard your device from attack.

Whitelisting

Whitelisting automatically checks the firmware during startup to determine if it is authentic and digitally signed by HP. If an anomaly is detected, the device shuts down and notifies IT.

HP Trusted Module Platform (TPM)

The HP Trusted Platform Module (TPM) strengthens protection of encrypted credentials and data stored on your printer or MFP.

LDAP/Kerberos user authentication

These protocols allow to authenticate the printer user through the company directory to ensure that the user only accesses authorized options and information.

Security event logging

Provides full visibility to quickly detect malicious threats. The security log records each event as defined by the audit policies set on each object.

How does it work?

HP JetAdvantage Security Manager runs three core steps during the device security cycle.



One. Check BIOS

Prevents the execution of malicious code during boot-up by allowing only HP-signed, genuine code to be loaded.



Two. Check firmware

Allows only authentic firmware digitally signed by HP to be loaded.



Three. Check settings

After a reboot, HP JetAdvantage Security Manager checks and fixes any affected device security settings.



of organizations reported at least one type of security threat/breach, either external or internal, within the last 18 months²



At rest

Self-encrypted hard drive

Protects sensitive business information stored on the hard drive with built-in encryption.

Secure File Erase

Ensures that no data is left behind in the printer after your files are deleted from the hard disk.

Secure Disk Erase

Erases all information from the printer's hard disk, making it impossible to recover sensitive data.



Protect the data

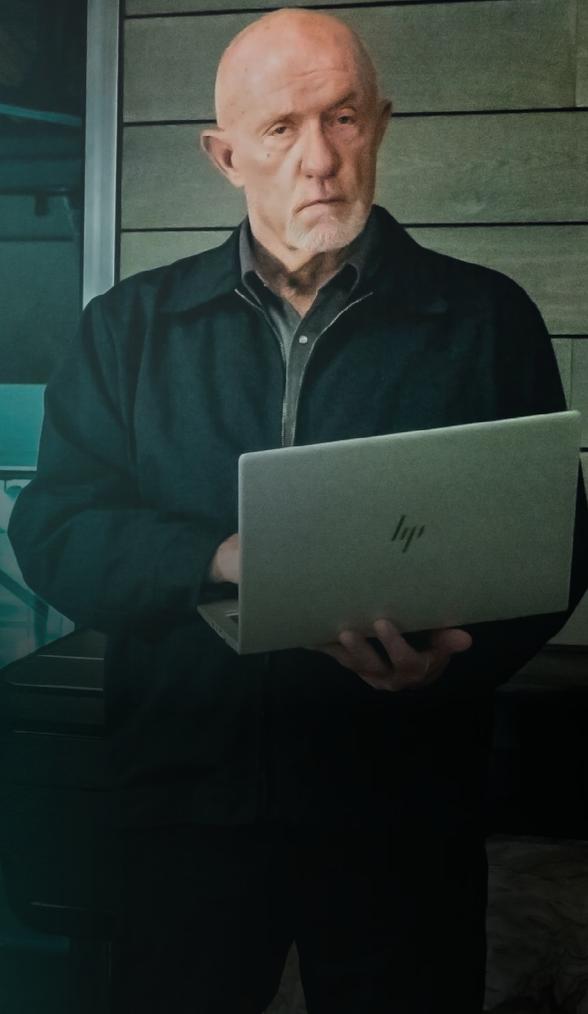
In transit

Encrypted communications

Standard encryption protocols 802.1x or IPSec use encrypted network standards to protect data traveling over the network.



of organizations expect an increase in security threat/breaches over the next 3 years²



Protect
the documents

Pull printing

Celiveo Enterprise is a fully integrated secure printing and tracking solution.⁴ This access control-based function has end-to-end tracking and reporting to protect sensitive information and media, and reduce unclaimed print jobs. It helps boost productivity and keep abandoned documents from falling into the wrong hands. HP DesignJet large-format printers are also compatible with other third-party pull printing solutions.

Encrypted PIN Printing

When users send confidential print jobs, they can assign a PIN to the document on the printer driver. The document will then be held in the printer until the user enters the PIN at the device. This way the user can be sure their confidential document won't be left unattended. With encrypted PIN printing, document data is encrypted when the document is sent to the printer to protect document confidentiality through the network.

	HP HP DesignJet T1700 Printer / Z9* and Z6 PostScript® Printer series	HP HP DesignJet XL 3600 MFP / HP DesignJet T2600 MFP and T1600 Printer Series	CANON imagePROGRAF TX-series TM-series	EPSON SURE COLOR T-series	OCE PW 345 CW 500	KIP 7172	RICOH CW2201 SP
DEVICE	Secure Boot	●	●				
	Whitelisting	●	●				
	TPM ^(a)		●		●		
	LDAP/Kerberos User Authentication ^(a)		●		●	●	●
	Role Based Access Control	●	●	●*	●*	●	●
	Front Panel Access Lock	●	●	●	●	●	● ^(b)
	Security event logging		●		●		
	Disable network ports and protocols ^(a)	●	●	●	●	●	●
	SNMP v3	●	●	●			
	Self-encrypted HDD ^(a)	●	●	● ^(c)	●	●	●
	IPSec	●	●	●	●	●	
TLS/SSL	●	●	●	●	●		
DATA	Secure File Erase	●	●	●	● ^(d)	●	
	Secure Disk Erase	●	●	●	● ^(d)	●	
	802.1x compatibility ^(a)	●	●	●	●		
	NTLM v2 ^(a)	n/a	●	●	●	n/a ^(e)	
	Encrypted PIN printing		●				
DOCUMENT	Integrated pull- printing solution ^(f)	●	●				
	PIN printing ^(a)	●	●				●
FLEET SECURITY MANAGEMENT	Security policy based fleet management ^(a)	●	●				
	SIEM integration		●				

(a) Security features of competitive printers that does reflect in this table is because they are not specified in any of their datasheet/brochure. Not specified in datasheet/brochure
IEEE802.1x enable/disable
(b) IEEE802.1x enable/disable
(c) Not available on the TM
(d) e-shredding / e-shredding [DoD 5220.22-M].
(e) NTLMv1
(f) Celiveo + API Netgard® MFD
(*) Limited to 2 users

Security monitoring and management solutions can help you identify vulnerabilities and establish a unified, policy-based approach to protecting data, reducing risk, and maintaining compliance. Prevent protection gaps and help avoid costly fines.²



Protect your
printing environment

Update devices with the latest firmware/OS

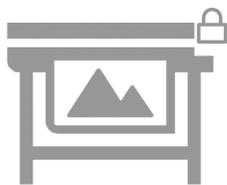
HP JetAdvantage Security Manager helps you reduce cost and resources to establish a fleet-wide security policy, automate device settings remediation, and install and renew unique certificates.⁵ The Instant-on Security feature included with HP JetAdvantage Security Manager automatically configures new devices when added to the network or after a reboot.

Compliance audit reporting of print fleet security

Use HP JetAdvantage Security Manager to create proof-of-compliance reports that demonstrate the application of security policies to printers and the securing of customer data.

Compliance infringement can hurt your business

Unprotected or under-protected endpoints create more opportunity for cybercrime. To help counter the growing threat, government bodies across the globe are implementing strict security regulations that require organizations to better protect customer information. It's crucial to deploy devices and solutions—like HP DesignJet printers and HP JetAdvantage Security Manager—that can help you meet compliance requirements and protect your business information from security threats.



Printers that protect

HP DesignJet series printers

Designed to help reduce risk, improve compliance, and protect your network end-to-end, HP DesignJet series printers provide embedded features and add-on solutions that can help you defend your printers and network.



HP DesignJet XL 3600 MFP series

The most immediate, robust,⁶ MFP for demanding environments.

For more information, please visit: [HP DesignJet XL 3600 MFP series](#)



HP DesignJet T2600 MFP series

A seamless experience for unprecedented collaboration, with the best network protection.¹

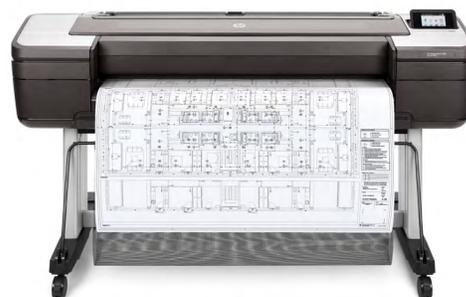
For more information, please visit: [HP DesignJet T2600 MFP series](#)



HP DesignJet T1600 Printer series

Meet deadlines with the fastest print speed, and with a radically simple printing experience.

For more information, please visit: [HP DesignJet T1600 Printer series](#)



HP DesignJet T1700 Printer series

Empowering HP DesignJet printer for CAD/GIS workgroups.

For more information, please visit: [HP DesignJet T1700 Printer series](#)



HP DesignJet Z6 PostScript® Printer series

High-definition prints, fast.
More quality with fewer inks.

For more information, please visit: [HP DesignJet Z6 PostScript® Printer Series](#)



HP DesignJet Z9+ PostScript® Printer series

Professional photo prints fast, simple.
More quality with fewer inks.

For more information, please visit: [HP DesignJet Z9+ PostScript® Printer Series](#)

HP printer portfolio

HP DesignJet
T730 Printer

HP DesignJet
T830 MFP
series

HP DesignJet
T1600 Printer
series

DEVICE

HP Secure Boot

UEFI Secure Boot

Whitelisting

TPM

LDAP/Kerberos User Authentication

Role Based Access Control

Front Panel Access Lock

Security event logging

SNMP v3 compatibility

Self-encrypted HDD

No HDD

IPSec compatibility

TLS/SSL

Secure File Erase

Secure Disk Erase

DATA

802.1x compatibility

NTLMv2

Encrypted PIN printing

IPv4 & IPv6 compatibility

CA/JD certificates

Disable interfaces

PIN printing

DOCUMENT

Integrated Celiveo
Enterprise Solution

Integrated API Netgard® MFD

FLEET

HP Web JetAdmin⁷

SECURITY

MANAGEMENT

HP JetAdvantage
Security Manager

SIEM integration



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THE WORLD'S MOST SECURE
LARGE-FORMAT PRINTERS¹





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Share with your colleagues

1. Applicable to the HP DesignJet T1700 Printer series, HP DesignJet Z9+ PostScript® Printer series, and HP DesignJet Z6 PostScript® Printer series, HP DesignJet XL 3600 Multifunction Printer series, HP DesignJet T2600 Multifunction Printer series, and HP DesignJet T1600 Printer series. Advanced embedded security features are based on HP review of 2019 published embedded security features of competitive printers, as of February 2019.
2. Spiceworks survey of 501 IT decision-makers in North America, EMEA, and APAC, on behalf of HP, June 2018.
3. Quocirca, "Print security: An imperative in the IoT era," [quocirca.com/content/print-security-imperative-iot-era](https://www.quocirca.com/content/print-security-imperative-iot-era), January 2017.
4. The HP DesignJet T1700 Printer series, Z9+ and Z6 PostScript® Printer series, and, HP Pagewide XL printers include the fully integrated Celiveo Enterprise solution.
5. HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit hp.com/go/securitymanager.
6. Based on comparable printers using LED technology and capable of printing 4-6 D/A1 pages per minute and which represent more than 70% of the share of low-volume LED printers in the US and Europe according to IDC as of November, 2018. Fastest first page out and up to 10 times less energy consumption based on internal HP testing for specific use scenarios. Operational costs based on low-volume LED technology under \$17,000 USD in the market as of November, 2018. Operational costs consist of supplies and service costs. For testing criteria, see hp.com/go/designjetxlclaims.
7. HP Web Jetadmin is available for download at no additional charge at hp.com/go/webjetadmin.

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