

Defend your network



With secure large format printing from HP



Firewalls alone can't withstand attacks from hackers. You need outstanding protection including the world's most secure large format printer¹ from HP to help protect your devices, data, documents, and network.

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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 business information, a tarnished brand image and reputation, litigation, and loss of business productivity and efficiency. 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, document, and network protection with a broad portfolio of solutions.

Defend your devices, data, documents, and network

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

Imaging and printing vulnerability points



Threats to your device

Control panel
Users can exploit device settings and functions.

Default password
Printers can come from the factory with simple default passwords that can be easily compromised.

BIOS and firmware
Compromised firmware can open a device and network to an attack.



Threats to your data

Data at rest
Printers store sensitive data that can be at risk.

Capture
Unsecured MFPs can be used to send scans anywhere.

Data in transit
Jobs can be intercepted as they travel to/from a device.



Threats to your documents

Output tray
Abandoned documents can fall into the wrong hands.

Ports and protocols
Unsecured ports (USB or network) or protocols (FTP or Telnet) put devices at risk.

Management
Undetected security gaps put data at risk.

Protect your 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 safeguard your device from attacks.

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 Connection Inspector

The HP Connection Inspector inspects outbound network connections typically abused by malware, determines what is normal, and stops suspicious activity. If the printer is compromised, it will automatically trigger a system restart.

HP Trusted Platform Module (TPM)

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

Protect your device

Unique admin password

All printers have a unique admin password by default, so your printer is always password-protected even without setup.

LDAP/Kerberos user authentication

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

HP Smartcard solution

Help protect confidential information and control printing access by requiring users to use two-factor authentication at the printer.

Role-based access control

Role-based access control allows the administrator to restrict user access to sensitive areas and printer settings by configuring different roles and assigning them to such users.

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.

Run-time Intrusion Detection

Run-time Intrusion Detection continuously monitors the kernel memory and detects corruption or tampering attempts. Once detected, the device will self-heal by rebooting into a good state.

HP Sure Start

HP Sure Start is an advanced hardware-enforced solution providing comprehensive firmware and firmware setting security.

Protect your data



At rest



Self-encrypted hard disk

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



Secure file erase

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



Secure disk erase

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

In transit



Encrypted communications

Standard encryption protocols 802.1x or IPSec use encrypted network standards to protect data traveling over the network when printing from drivers or submitters.

Protect your documents



Pull printing



Pull printing is a function that provides 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 large format printers are also compatible with other third-party pull printing solutions.



HP Common Access Card (CAC)¹

Enhance security and improve productivity with unified printer authentication across your organization.



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.

Protect your network

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



Protect your devices and network using HP JetAdvantage Security Manager



HP JetAdvantage Security Manager² helps you reduce cost and resources to establish a fleet-wide security policy, automate device settings remediation, and install and renew unique certificates. The Instant-on security feature included with HP JetAdvantage Security Manager² automatically configures new devices when added to the network or after a reboot.

HP Command Center (HPCC) is a cloud solution that allows IT admins to create a security policy for onboarded devices. Using HPCC, they can assess and, if necessary, remediate device security settings to comply with pre-established company security policies.

Compliance audit reporting of print fleet security



Use HP JetAdvantage Security Manager² on premise and HPCC in the cloud 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 Manager²—that can help you meet compliance requirements and protect your business information from security threats.

Exceptional protection. Simple and secure.

HP Wolf Security^{3,4} now extends to large format HP DesignJet printers and plotters.



To help print businesses like yours address future vulnerabilities and risks, HP Wolf Security delivers integrated endpoint protection and resiliency that starts at the hardware level and extends across software.

It's a breed of endpoint security,³ rooted in zero trust principles, that is continually evolving to help you stay ahead of modern threats.

Improve your security posture—with ease

While HP Wolf Security offers exceptional protection, it also enables systems to defend themselves and self-heal. Deploy and manage systems easily without compromising the breadth and depth of your security coverage.



HP WOLF SECURITY

Defend your growing business

Detect

Automatically detect issues or threats before you can spot them yourself.

Protect

Protect your business and maintain momentum with strong security that keeps you ahead of cyberthreats.

Recover

Automatically recover from attacks without burdening busy IT teams.

Three different levels of protection

New HP DesignJet printers with HP Wolf Security have varying degrees of protection already built into them. By purchasing an HP Wolf secure printer, you are sure to have the appropriate level of security for your needs.



HP Wolf Essential Security

Lay a secure foundation with hardware-powered protection.

HP Wolf Pro Security

Safeguard your business with proactive protection against cyber threats.

HP Wolf Enterprise Security

Stay ahead of evolving security threats while supporting hybrid work.

How does self-healing work?

HP Security Manager runs a four-step security check cycle to keep your device secure.



Check operating code (BIOS) HP Secure Boot

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



Check firmware Whitelisting

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



Check printer setting HP JetAdvantage Security Manager²

After a reboot, inspects and fixes any affected device security settings.



Continuous monitoring HP Connection Inspector

Continuously monitors outbound network connections to prevent malware intrusion and automatically stop malicious activity.

Printers that protect, detect, and recover

HP large format printers

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



HP DesignJet T850/T950

Printer series

The world's easiest A3-A1 printing experience to maximize your team's agility.⁵

For more information, please visit:

[HP DesignJet T850/T950 Printer series](#)



HP DesignJet XL 3800

Multifunction Printer

Defend your network and data with the world's most secure large-format printer⁶, including HP Wolf Enterprise.

For more information, please visit:

[HP DesignJet XL 3800 MFP](#)



HP printer portfolio

	HP DesignJet T850/T950 Printer series	HP DesignJet XL 3800 Multifunction Printer	
Device	HP Secure Boot	✓	✓
	UEFI Secure Boot		✓
	HP Connection Inspector		✓
	Whitelisting	✓	✓
	Unique admin password	✓	✓
	TPM		✓
	Run-time intrusion detection		✓
	Sure start		✓
	LDAP/Kerberos user authentication	✓	✓
	Role-based access control		✓
	Front panel access lock		✓
	Security event logging	✓	✓
	SNMP v3 compatibility	✓	✓
	Self-encrypted HDD		✓
Removable HDD		✓	
Data	No HDD	✓	
	IPSec compatibility	✓	✓
	TLS/SSL (g)	✓	✓
	Secure file erase		✓
	Secure disk erase		✓
	802.1x compatibility	✓	✓
	NTLM v2		✓
	Encrypted PIN printing		✓
	IPv4a and IPv6 compatibility	✓	✓
	Document	CA/JD certificates	✓
Disable interfaces		✓	✓
HP CAC ¹			✓
PIN printing		✓	✓
Fleet security management	Integrated Celiveo Enterprise Solution		✓
	HP Web JetAdmin	✓	✓
	HP Security Manager/HP Command Center	✓	✓
	SIEM integration	✓	✓

Competitive comparison

	RICOH CW 22001 SP/RICOH IM CW 2200	KIP 600 Series	KIP 7171	Canon CW 3600	Epson T5400	Canon PW 3500 series	Canon IPF TZ-Series TZ-30000	Canon IPF TM- Series 300/305	Epson SC-T Series T5700D
Device	Secure Boot ^(a)	☑		☑		☑	☑		☑
	Connection Inspector ^(a)	☑							
	Whitelisting ^(a)	☑			☑	☑		☑ ^(h)	
	Unique admin password ^(a)	☑	☑	☑		☑	☑	☑	☑
	TPM ^(a)	☑			☑		☑	☑	☑
	Run-time intrusion detection				☑		☑		
	Sure start				☑		☑		
	LDAP/Kerberos user authentication	☑			☑		☑		☑
	Role-based access control ^(a)	☑	☑	☑	☑		☑	☑ ^(f)	☑ ^(g)
	Front panel access lock ^(a)	☑	☑	☑	☑	☑	☑	☑	☑
	Security event logging ^(a)	☑			☑		☑		☑
	Disable network ports and protocols ^(a)	☑			☑	☑	☑	☑	☑
	SNMP v3 compatibility ^(a)				☑	☑	☑	☑	☑
	Self-encrypted HDD ^(a)	☑	☑	☑	☑			☑	☑
	Removable HDD		☑	☑	☑	☑	☑	☑	☑
	IPSec compatibility ^(a)	☑	☑	☑	☑	☑	☑	☑	☑
TLS/SSL ^(a)	☑	☑	☑	☑	☑	☑	☑	☑	
Data	Secure file erase ^(a)	☑	☑	☑ ^(b)	☑ ^(b)		☑	☑	☑
	Secure disk erase ^(a)	☑		☑ ^(b)	☑ ^(b)		☑	☑	☑
	802.1x compatibility ^(a)	☑			☑		☑	☑	☑
	NTLM v2 ^(a)	☑			☑ ^(c)	☑		☑	
Document	Encrypted PIN printing ^(a)	☑			☑		☑ ^(e)	☑ ^(e)	☑
	Integrated pull printing solution ^{(a)(d)}	☑	☑	☑ ^(e)	☑ ^(e)		☑	☑	☑
	PIN printing ^(a)	☑ ^(e)	☑ ^(a)	☑	☑		☑	☑	☑
Fleet	Security policy-based fleet management ^(a)								
	SIEM integration ^(a)	☑			☑		☑		☑

(a) Security features of competitive printers that are not reflected in this table is because they are not specified in any of their datasheets/brochures

(b) e-shredding/e-shredding [DoD 5220.22-M]

(c) NTLMv1

(d) Celiveo + API Netgard® MFD

(e) Only Netgard

(f) It is not possible to configure different roles and assign them to different users; only administrator password

(g) Menu access level is able to configure by multiple PINs

(h) Printer's serial number is used as the password

Legal footnotes and disclaimers

1. Supports US Govt NIPRNet Solution and US Govt SIPRNet Solution.
2. HP JetAdvantage Security Manager must be purchased separately. To learn more, please visit hp.com/go/securitymanager
3. HP Security is now HP Wolf Security. Security features vary by platform, please see product data sheet for details.
4. All HP DesignJet printers have varying levels of security, but only select printers can claim HP Wolf Security. These include the HP DesignJet XL 3800 MFP, HP DesignJet T850 Printer/T850 MFP, and HP DesignJet T950 Printer/T950 MFP. HP Wolf Security will become a standard feature on future HP DesignJet products.
5. Based on test results using HP Click with the HP DesignJet T850. This solution enables printing in fewer steps compared to main competitor printing solutions. Printing a 5-page mixed job set with A1 and A3 takes 3 steps using HP Click vs. 12 steps with competitor A and 8 steps with competitor B. Testing performed by Sogeti, April 2023. Detailed test report is available upon request.
6. Based on comparison of published security specifications commissioned by HP and performed by Sogeti in February 2023. Comparison of HP DesignJet XL 3800 security features and competitors from different manufacturers that represent the majority of TDP low volume market share worldwide as of February 2023. Further details available upon request.

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