

FROM IDG

Regional Events for Senior IT Leaders



Think Your Network is Safe? Check All of Your Endpoints

Pamela Dill

Sr. Security Advisory, World Wide HP Security Practice **HP Inc.**



Are you concerned about print security?

You should be.

Pam Dill

Sr Security Advisor
MSc MIS, CNDA, CEH, ISO/IEC 27001 LA
WW Security Practice HP, Inc.





Do you know your **print security** risk profile?

A security risk profile provides a clear and concise understanding of how to align risk and security activities with the expectations of the business and its leadership.



Paying Attention to the Endpoint **IT Security Spend** \$75B ver City Media Wisconsin -Citigroup Milwaukee \$60B **JPMC** \$45B \$30B \$15B erican Argen Equifax \$0B Cardsystems Solutions Inc. 2006 2009 2005 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017



In 1956, a 5mb HDD being loaded onto a plane.



The risk is real

It's easy for hackers to break into unsecured printers



"I probe around for a multifunction printer and see that it is configured with default passwords. Great, I am in..."

Peter Kim

Industry-leading Penetration Tester, Hacker, Author



The risk is real

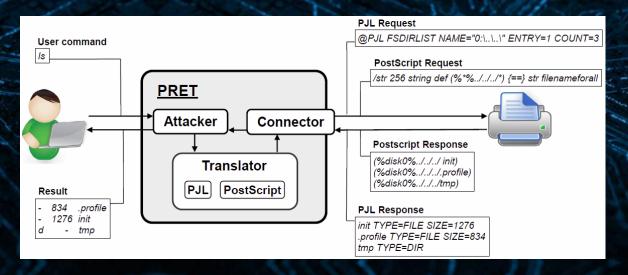
It's easy for hackers to break into unsecured printers

"We've compromised a number of companies using printers as our initial foothold. We move laterally from the printer, find Active Directory, query it with an account from the printer and bingo, we hit GOLD..."



Jens Müller - Exploiting Network Printers

PRinter Exploitation Toolkit (PRET)
Hacking Printers Wiki







Today's printers act a whole lot like PCs

Yet only 16% of companies think printers are a high security risk.*





Hardware



Email



Network access



Firmware and software



Internet



Known Attacks





Device type: gener Hunning: Linux 3.X|4.

MAC Address:

Network Distance

Too many finge

22/tcp oc

OS CPE: cpe:/o:linux

inux_kernel:4

203.0.113.132

441 closed ports

ive specific OS

March 2018



OUTAGE ALERT

The City of Atlanta is currently experincing outages on various internal and customer facing applications, including some applications that customers use to pay bills or access courtrelated information. At this time, our Atlanta Information Management team is working diligently with support from Microsoft to reslove the issue. We are confident that our team of technology professionals will be able to restore applications soon. Our City website, Atlantaga.gov, remains accessible and we will provide updates as we receive them.

Not shown: 998 closed ports

NEW:

Atlanta's recovery highlights the costly mistake of being unprepared

The city of Atlanta says they're prepared to spend upwards of \$1.4M on recovery efforts after the recent ransomware attack in March

The Samsam attack against the city of Atlanta in March was chaotic and crippling. The ransomware, named for the group responsible for development and deployment, left the <u>city scrambling to deal with critical systems</u> that were forced offline, hampering civil services including utility payments and municipal court appointments.

Two months before the Samsam attack, the Atlanta Auditor's Office was concerned about the city's security posture, particularly when it came to risk management.

"While stakeholders perceive that the city is deploying security controls to protect information assets, many processes are ad hoc or undocumented, at least in part due to lack of resources. Dedicating resources to formalize and document information security management processes would prepare the city for certification, and, more importantly, provide assurance that the city is adequately managing and protecting its information assets," the audit report explained.

January 2018 exploit critical vulnerabilities in processors







May 2017 Ransomware hits more than 12,000 drives

Healthcare IT News

Privacy & Security

More than half of hospitals hit with ransomware in last 12 months



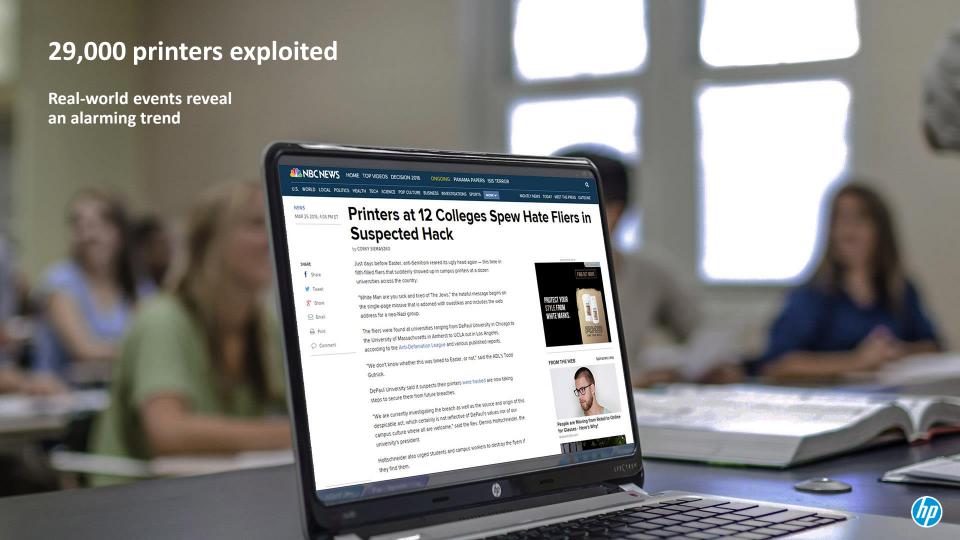
YOUR COMPUTER HAS BEEN LOCKED! This operating system is locked due to the violation of the federal laws of the United States of America! (Article 1, Section 8, Clause 8; Article 202; Article 210 of the Criminal Code of U.S.A. provides for a deprivation of liberty for four to twelve years.) Following violations were detected: Your IP address was used to visit websites containing pornography, child pornography, zoophilia and child abuse. Your computer also contains video files with pornographic content, elements of violence and child pornography! Spam-messages with terrorist motives were also sent from your computer. This computer lock is aimed to stop your illegal activity. To unlock the computer you are obliged to pay a fine of \$200. You have 72 hours to pay the fine, otherwise you will be arrested. You must pay the fine through To pay the fine, you should enter the digits resulting code, which is located on the back of your in the payment form and press

OK (if you have several codes, enter them one after the other and press

OKI







Touchscreen Control Panel of MFP

INCIDENT!

Radiation Leak has occurred. Evacuate Immediately







Topics -

News 🛭

Training -

Resources -

Events

Jobs

TRENDING: Live Webinar @ 1:00 PM ET: HPE's Farshad Ghazi Offers Unique Perspective on Data Security .

\$1.2 Million Penalty in Copier Breach

Affinity Health Plan, OCR Settle Over 2010 Incident

Marianne Kolbasuk McGee (♥HealthInfoSec) • August 14, 2013 ● 0 Comments

















i Get Permission



The latest **HIPAA** data breach settlement serves as a costly reminder that organizations must ensure they properly remove or destroy protected health information from all gear prior to disposal.

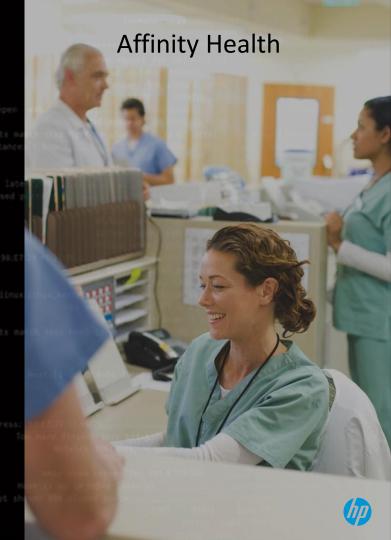
See Also: Addressing the Identity Risk Factor in the Age of 'Need It Now'

Affinity Health Plan, a managed care plan company based in New York, has just agreed to pay federal regulators \$1.2 million to settle a 2010 incident that affected 344,557

individuals whose data was discovered on the hard drives of copy machines that had been returned to a leasing company.

Most is up (0.0054s latency).

Not shown: 998 closed ports



KIM ZETTER SECURITY 10.05.15 7:00 A

HACKING WIRELESS PRINTERS WITH PHONES ON DRONES

SHARE





P

COMMENT S





YOU MIGHT THINK that working on a secured floor in a 30story office tower puts you out of reach of Wi-Fi hackers out to steal your confidential documents.

But researchers in Singapore have demonstrated how attackers using a drone plus a mobile phone could easily intercept documents sent to a seemingly inaccessible Wi-Fi printer. The method they devised is actually intended to help organizations determine cheaply and easily if they have vulnerable open Wi-Fi devices that can be accessed from the sky. But the same technique could also be used by corporate

WIRELESS HACKING

Researchers in Singapore developed a drone with a mobile phone that can detect open wireless printers in close proximity then establish the mobile device as a fake access point that mimics the printer and intercepts documents intended for the real device.



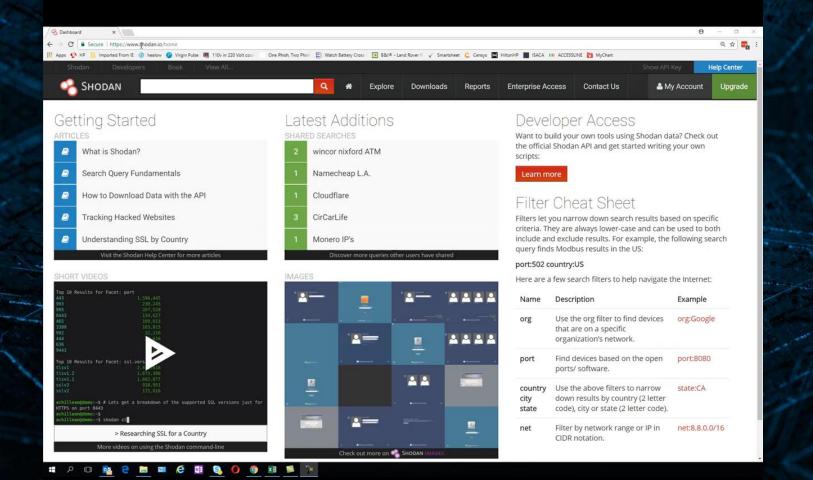
How printing might bug your conference room

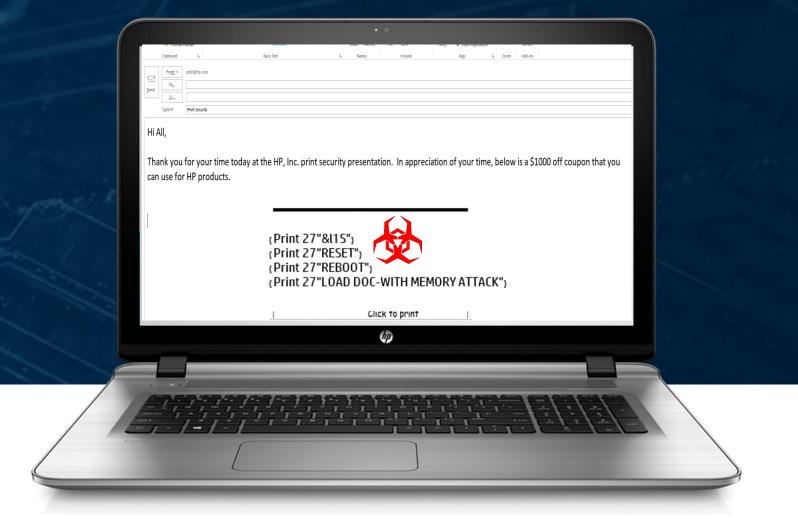














- Consult with print security experts
- Assess your environment
- Define and implement a print security policy

Take Action Now



Improve the security of your imaging and printing environment



Thank You!

Pamela Dill

Sr. Security Advisory, World Wide HP Security Practice *HP Inc.*

