ARE YOUR ID CARD PRINTERS LEAVING YOUR ORGANIZATION VULNERABLE?

A preventative guide to avoiding attacks

Entrust Datacard®

Trusted Identities | Secure Transactions

When not properly secured, connected printers can act as an entry point for unauthorized users, i.e., hackers, looking for high-value data. An important part of many corporations, ID printers are often under-secured and overlooked IoT devices, making them a target for cybercriminals. While a recent study revealed that 59 percent of organizations reported an incident of print-related data loss in the past year, you can protect your organization and avoid such attacks.

THE STATE OF THE NETWORK
All connected devices are vulnerable to attacks

Printers have been part of connected ecosystems for decades. Even your basic desktop office printer is connected to an online server. Today, ID card printers are another attractive target for cybercriminals.

A recent study showed that 11 percent of security incidents reported by organizations over the last year were print-security related. Sophisticated cybercriminals are looking to exploit your vulnerabilities, whether that's with your basic desktop printer or more specialized printing operations such as those for secure credential issuance.

For organizations with credential issuance operations for the enterprise and healthcare worlds, a breach to the secure printing environment could spell disaster.

The danger of compromised sensitive issuance data from a secure ID operation is clear, but these attacks don't just target the information transmitted to a printer.

Whether for sport, for ransom, or to gain access to higher-value data, cybercriminals are waiting to exploit the vulnerabilities that are common, even standard, in ID card printers. They can gain access to other databases and networks via a 'hacked' printer, compromising more sensitive information.

A print-related breach could also lead to a DoS attack that shuts down an entire issuance operation for an extended period of time, an equally devastating threat.

"Rest assured, as a security company, Entrust Datacard does regular rounds of internal vulnerability and penetration testing of our products — including ID printers — by qualified third-party assessors."
—Mark Ruchie, Vice President and Chief Information Security Officer, Entrust Datacard

Avoid attacks by creating a secure print environment

Easy for us to say, right? Well, creating a secure print environment is actually very manageable.

First, **look at the security** of your entire printer environment, including all connected elements of both physical and digital issuance and your personalization ecosystem.

Physical security requires securing facilities, employees, personalization software, supplies, card stock and the printers themselves. The range of technology is constantly expanding: Alarms, locks, security cameras, identification badges and access cards all help control who can physically access the spaces of your issuance operation. Also consider hours of operation, separation of duties between staff for appropriate checks and balances, which activities require multiple approvers, and logging of key activities. Remember, any time human activity is required, it's important to provide proper screening and training to prevent internal threats or vulnerabilities to social engineering schemes.

Digital security begins with protecting the software applications used to issue credentials, manage printers in a fleet, manage inventory, or connect with other components of your digital ecosystem. Many traditional applications are likely already behind a firewall to limit access, but externally hosted solutions, i.e., "cloud" software, bring about new challenges in terms of access and network security.

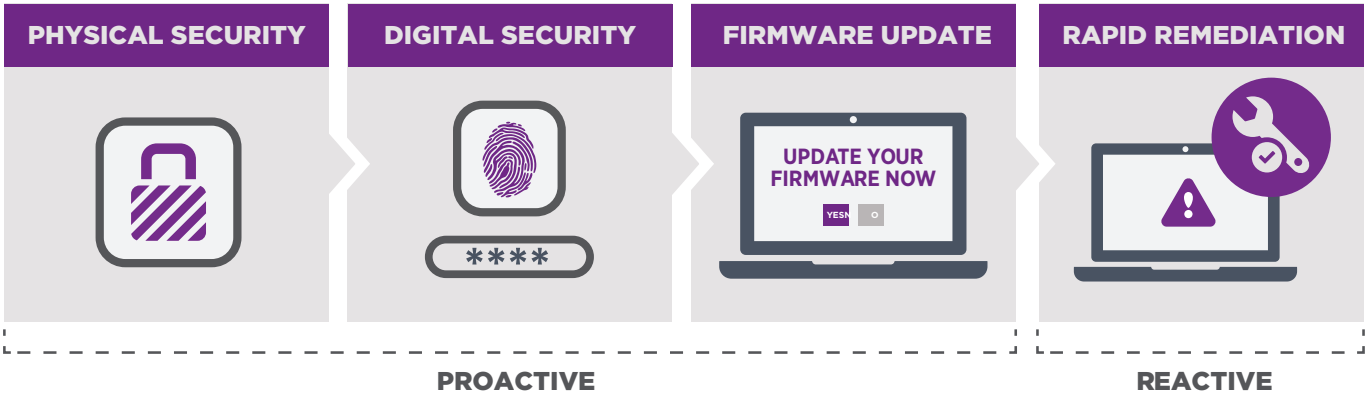
The devices in your ecosystem — including your ID card printers — must be authenticated to prevent sophisticated cybercriminals from gaining access to your entire print network and beyond.

Then **construct a map** of all parts. Include all printer hardware, all software and devices connected to your print network, and how your print environment fits within your larger connected ecosystem.

Next, **prioritize firmware updates.** It is imperative that maintaining up-to-date printer firmware becomes a core component of your printer maintenance protocol — and your overall security strategy. While updates certainly improve functionality and resolve reported issues, they also provide security features and address new security threats. By ensuring your print environment is using the latest printer firmware, you can help protect your printers against ever-evolving threats, while ensuring optimal performance and efficiency.

And finally, **understand what is "normal,"** so that "abnormal" activity can quickly be isolated and neutralized. We call this rapid remediation. Because unfortunately, even proactive security can't always prevent a print-related breach. If an attack does happen, identifying it and limiting its impact is the key to mitigating overall security risks.

PRINTER SECURITY STRATEGY



Security threats are constantly evolving, and to be effective, your security efforts must evolve too. An important step is prioritizing the regular firmware updates for your printer hardware. This will keep you at the leading edge of security for your print environment. Regularly conducting reassessments of the security of your print environment will help identify new vulnerabilities before they turn into breaches.

Outstanding performance, exceptional security: The Entrust Datacard difference

When you get your printer from a security company like Entrust Datacard, as opposed to getting your security from a printer company, you also receive the confidence and trust, as well as outstanding performance and exceptional security, that comes with 50 years of industry experience and innovation.

Our experts are constantly monitoring security threats and vulnerabilities and developing new security measures to keep our printer hardware one step ahead of cybercriminals.

We regularly release printer firmware and driver updates that provide powerful security features — printer locks and alerts, enhanced security logs, updated networking components, and beyond — as well as new functionality and enhancements that drive print productivity. These firmware updates ensure your printer hardware continues to deliver outstanding performance while maintaining exceptional security. **(So please: Update your firmware on a regular basis!)**

Entrust Datacard also has a complete portfolio of authentication and credentialing solutions that help our customers enact optimal physical and logical security — in their print environments and across the entire organization.

WHAT TO DO TO KEEP YOUR PRINTERS SECURE:

- ✔ Change passwords as soon as you set up your printer
- ✔ Disconnect from unused functionality and/or ports
- ✔ Keep firmware updated

"Sure, our printers produce compelling, high-quality cards. But without security, none of that matters. That's why we consider ourselves a security company first."

—Martin Hoff, Product Marketing Manager

About Entrust Datacard Corporation

Consumers, citizens and employees increasingly expect anywhere-anytime experiences — whether they are making purchases, crossing borders, accessing e-gov services or logging onto corporate networks. Entrust Datacard offers the trusted identity and secure transaction technologies that make those experiences reliable and secure. Solutions range from the physical world of financial cards, passports and ID cards to the digital realm of authentication, certificates and secure communications. With more than 2,500 Entrust Datacard colleagues around the world, and a network of strong global partners, the company serves customers in 150 countries worldwide.

For more information about Entrust Datacard® products and services, call **888-690-2424**, email **info@entrustdatacard.com** or visit **entrustdatacard.com.**

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