

5 WAYS TO PROTECT THE DATA IN YOUR OFFICE

#1

**TRUST IN
YOUR OFFICE
SOLUTIONS**

Canon

#1 TRUST IN YOUR OFFICE SOLUTIONS

Not all devices offer the same level of protection for your networks or the data that exists in your office.

- Canon adopts security by design ethos for its products and services; making sure we build security considerations into the design of products and services
- We also qualify the credentials of products and services we recommend from third party suppliers through stringent security tests
- We encourage you to find out more about the advanced security features we include in our office devices

The Risks

A heightened awareness of information security threats to the office have increased buyer concerns over the safety of computer printers and other office equipment.

Risks might arise from the introduction of malware to the operating systems of devices, attacks originating from

printer languages like Postscript, PCL and PDL; or as the result of manufacturers not complying fully with the latest industry standards.

In this brochure, find out about the measures Canon takes to ensure the printer technologies we recommend, are safe for your data.

CANON SOLUTIONS



HOW CANON MITIGATES RISKS POSED TO ITS DEVICES

Configure office devices balance access to features against information security risks



PRINTER LANGUAGES AND DRIVERS

Consider the most appropriate printer control languages for optimised use with minimum risk



INDUSTRY STANDARDS

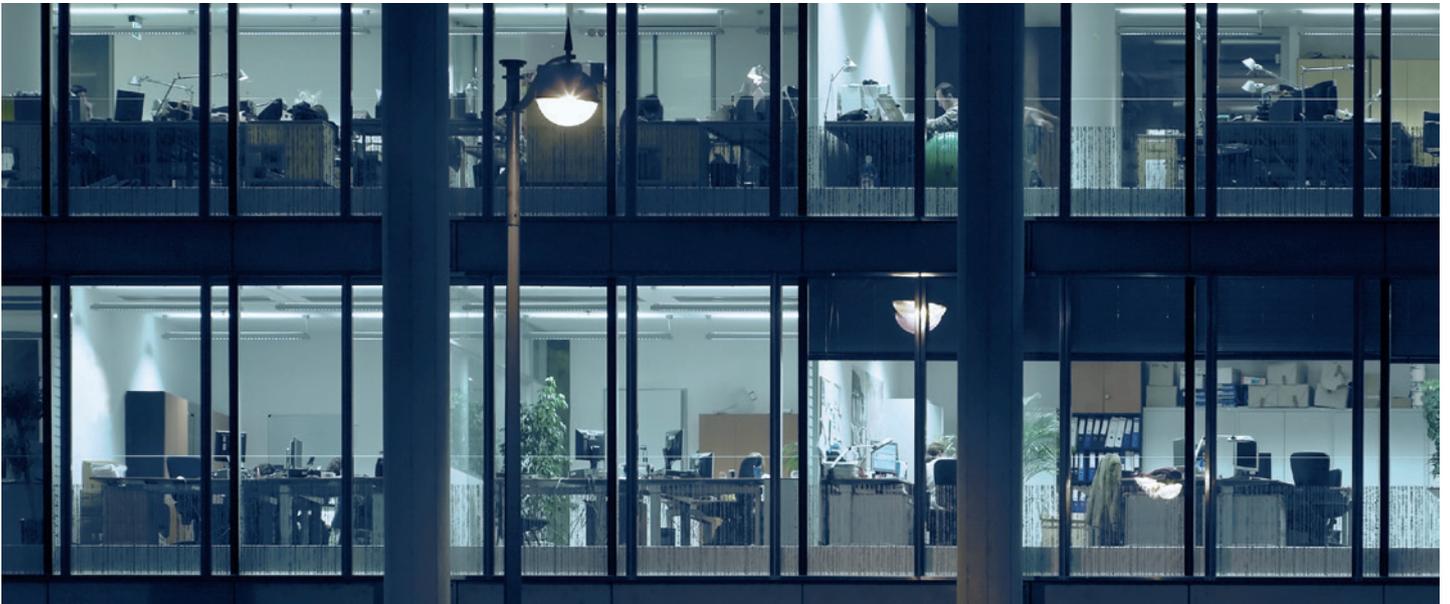
Determine the standards that matter most when it comes to protecting your information, devices and networks



CREATING A DATA SAFE PRINT AND SCAN NETWORK

Explore how a more secure print and scan environment can mitigate device security risks

YOUR OPTIONS



HOW CANON MITIGATES RISKS POSED TO ITS DEVICES

- Optimised device configuration
- Centralised software and firmware updates*
- Access restriction to devices



Mitigate risks from malware

ADOPT A SPECIFICALLY TAILORED DEVICE CONFIGURATION THAT LIMITS DEVICE RISKS

Roll-out of configurations can be centrally managed, so that your service provider can perform this service on your behalf.

ENSURE THAT DEVICES ARE REGULARLY UPDATED

Canon recommends that devices are configured with Canon eMaintenance. This ensures that each device receives the most up-to-date and appropriate updates as they become available.

CHOOSE CANON DEVICES

Canon's range of office MFPs, network printers and scanners adopt strict controls over administrative privileges to prevent unauthorised access to, or manipulation of the device and its operating system.

PRINTER LANGUAGES AND DRIVERS



Businesses can minimise information security risks by selecting safer printer languages and drivers.



UFR II

- Canon proprietary printer language
- Offers higher performance by supporting the features a device has—maximising speed, minimising superfluous programmatic capabilities
- As a proprietary Canon printer language, it is lesser known, providing more protection from hackers

HP PCL

- A de facto industry standard printer language technology widely used for office printing applications, commonly resident in laser printers.

ADOBE POSTSCRIPT

- A powerful language most commonly used for documents with high graphical content demanding rich colour printing, where colour accuracy is important. Several versions of the printer language exist.

THE INDUSTRY STANDARDS WE ADOPT IN OUR DEVICES AND WHY

Industry standards perform an important role in providing consistent technical specifications for benchmarking office devices. They help information security professionals to identify security threats and consistently apply solutions to overcome them.



International standards drive the Information technology industry and dictate security techniques, as well as introduce best practices on evaluating criteria for IT security with the end result of protecting office devices and the information they process and share.

IPSEC COMMS

IPSec communication prevents third parties from intercepting or tampering with IP packets transported over the IP network. Use TLS encrypted communication to prevent sniffing, spoofing, and tampering of data that is exchanged between the machine and other devices such as computers.

IEEE 802.1X AUTHENTICATION

Unauthorised network access is blocked by a LAN switch that only grants access privileges to client devices that are authorised by the authentication server.

IEEE 2600TM-2008/ISO15408

This standard specifies levels of appropriate security defined depending on the operating environment, and security measures are suggested accordingly. Various logs allow you to monitor activity around your device, including blocked communication requests as well as configuring ports as part of your security policy settings.

WI-FI DIRECT

Enable peer-to-peer connection for mobile printing without the mobile device needing access to your network.



A DATA SAFE PRINT AND SCAN NETWORK

Devices are safer on a secure network print and scan environment

With so much focus on end-point devices, it would be easy to think the security of any device depends solely on the protection provided by its intrinsic features.

In reality, while risks of malware attacks targeted towards devices exist, they are far less numerous than other threats to data security—like an employee walking away with a list of customers on a USB memory, or a disgruntled salesperson printing off pages of customer details and walking out the door with them.

Network architects can do much to protect devices beyond the security provisioning of the device itself. For example, thoughtful network infrastructure design, the segregation of networks and virtualisation of print and scan networks, can do much to add further strands of protection and control. Securing mobile access to networks also makes good sense.

SECURE MOBILE & GUEST PRINTING

Canon offers a variety of solutions to enable secure mobile access to document printing, scanning and sharing on networks including for example provision for Direct Wi-Fi connection on imageRUNNER ADVANCE devices negating the need to open network access for guests.

UNIVERSAL DRIVER

Select output management software that adopts a common universal driver for all devices to minimise technology variants. This makes it easier to test and qualify components, while removing dependencies on higher risk printer languages like Postscript™.

USER AUTHENTICATION

We recommend organisations adopt secure release technology that requires users to identify themselves at the device before accessing features. Canon offers a wide range of User Authentication methods including pin-code, NFC, password, contactless card and biometrics.

ACTIVITY MONITORING

Canon Data Loss Prevention (DLP) technologies for printing offer customers a robust way of logging and reporting on user and device behaviours. The act of informing Users that device output activities are being monitored can be an effective way to mitigate risk of internal data breaches.

INTERESTED?

There is no fool-proof plug and play office security solution.

Every business has to determine what represents an acceptable level of risk.

Canon is a pro-active partner to businesses seeking to keep data safe as part of a resilient enterprise information security policy.

One voice

Our information security team is responsible for both Canon's internal information security, and the advice and solutions we offer to our customer.

Our is an ethos of security and privacy by design

When we design or select technologies, products and services for our customers, we consider their likely information security impact on our customers' environment, and incorporate security and measures to enable protection to the desired level.

An inclusive approach

All organisations are different. There is no one-size-fits-all solution when it comes to formulating a appropriate information security approach for your business. At Canon, our approach is to work closely with our customers to build better information security together.

Satisfy the information security expectations of:

- Shareholders
- Staff
- Customers
- Suppliers
- Partners
- Guests
- Channel Partners
- Contractors

Canon Inc.

Canon.com

Canon Europe

canon-europe.com

English Edition

© Canon Europa N.V., 2017

Canon Europe Ltd

3 The Square,
Stockley Park,
Uxbridge,
Middlesex
UB11 1ET
UK

Canon U.K. Ltd

Woodhatch
Reigate
Surrey
RH2 8BF
UK

