Canon



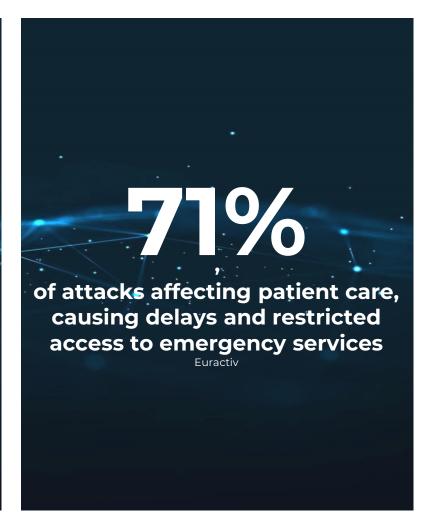
CYBER SECURITY AND YOUR PRINTING INFRASTRUCTURE

Nicolas Moerenhout Marketing Business Developer

CYBERSECURITY IN HEALTHCARE



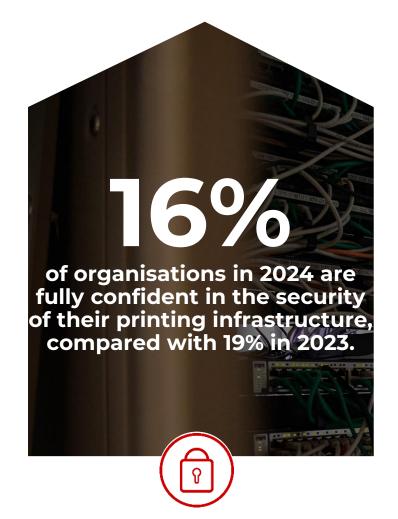








SECURITY AND PRINTING INFRASTRUCTURE







Source: Quocirca Print Security Landscape 2024



SECURITY CHALLENGES

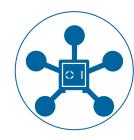


Protect your documents and data



Complying with the law





Securing your network and peripherals



WHAT MAKES CANON UNIQUE

Security Incident Response Team



Product Security Incident Response Team





2 teams, 1 management structure



NIST Cyber Security Framework

CANON DIGITAL TRANSFORMATION SERVICES

Value Add Services

Devices

Business Software

Canon

MANAGED PRINT SERVICES

Enhanced services

Core services

CLOUD-ENABLED DEVICES imageFORCE imagePRESS imageRUNNER ADVANCE DX imageRUNNER i-SENSYS X imageFORMULA MAXIFY

PIXMA



I'TS NOT JUST A PRINTER...

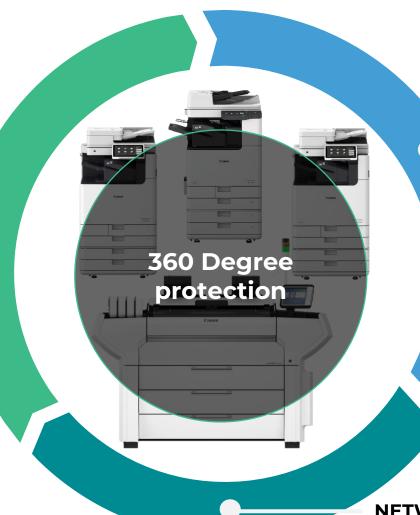


360-DEGREE SECURITY

DOCUMENT Security

Prevent leakage of information from documents

Protect both documents to be printed and scanned from the MFP to prevent information leakage from documents left behind or document tampering.



DEVICE Security

Protect the MFP

Protect MFP systems and data with multiple layers to guard against unknown threats.

NETWORK+CLOUD Security

Protect from wire-tapping /
Protect from spoofing



UNIFIED FIRMWARE PLATFORM



UNIFIED FIRMWARE PLATFORM

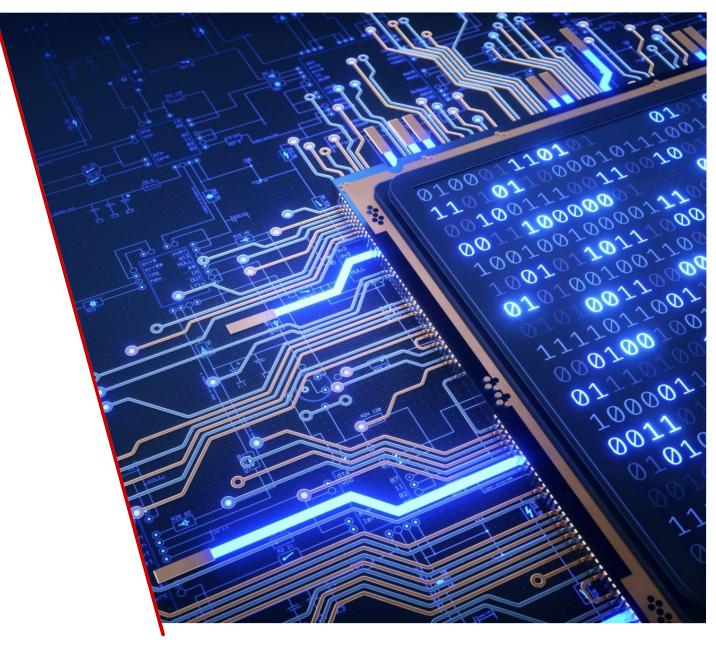
Our peripherals incorporate a unified platform that updates functionality, performance and security throughout the lifecycle of your hardware.



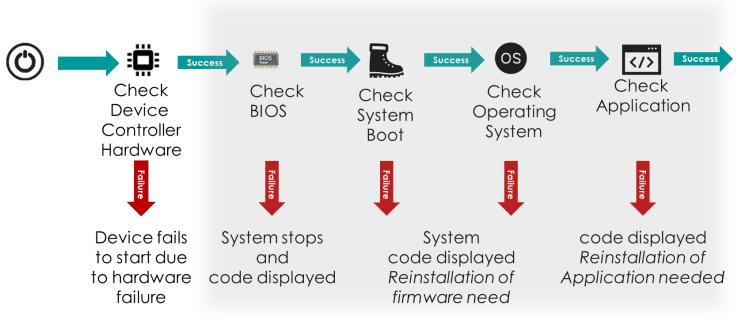


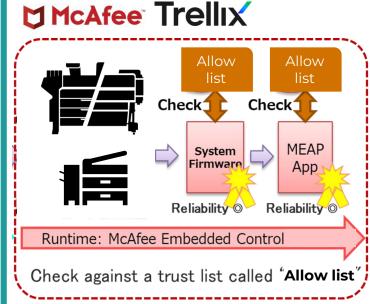


VERIFY SYSTEM AT START-UP



VERIFY SYSTEM AT START-UP AND TRELLIX





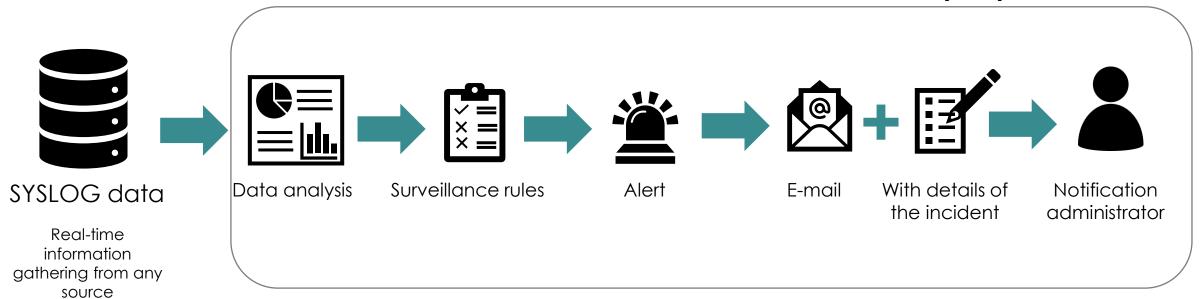


SIEM INTEGRATION



HOW DOES SIEM WORK?

SECURITY INFORMATION EVENT MANAGEMENT (SIEM)





SAN (SUBJECT ALTERNATIVE NAME)

SECURE & EFFICIENT CERTIFICATE FOR SSL / TLS COMMUNICATION

Normal certificates: 1 certificate for 1 domain



























netwdo.europe.com sysdo.canon.com dcs.client.com prt.cgr.com c.global.com





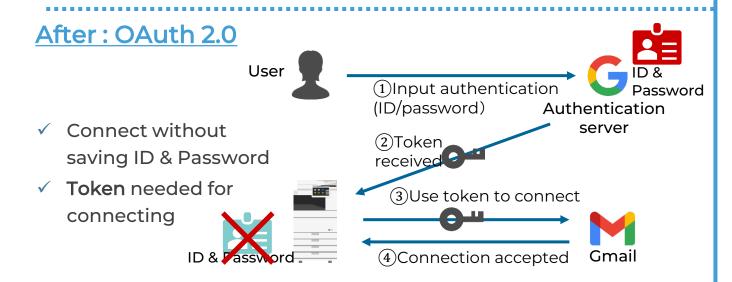
OAUTH 2.0

SUPPORTING CLOUD MAIL SERVERS

Before: Basic Authentication

User ✓ ID & Password is saved in MFP 1)Set authentication (ID/password) and used for ②Use authentication to connect connecting. (3)Connection accepted

ID & Password



WHAT'S THIS?

OAuth 2.0 is an open standard authorization framework

for securely and selectively accessing user resources or data by client applications such as web or mobile apps.

Google and Microsoft officially announced that Basic Authentication is disallowed, and **OAuth 2.0 is mandatory**.

BENEFIT

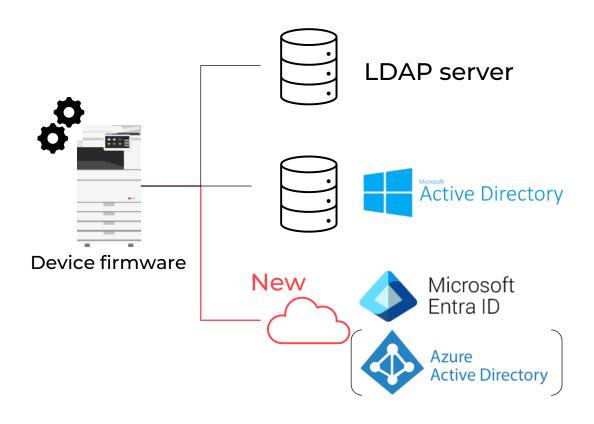
Users can connect MFP with following cloud-based email services.

Microsoft Exchange Online Google Workspace (formerly Google G Suite) *



MICROSOFT ENTRA ID (FORMER AZURE AD)

SUPPORTING CLOUD BASED AUTHENTICATION



WHAT'S THIS?

Microsoft's cloud-based identity and access management services

Simple access to many apps from anywhere with a single authentication (single sign-on)

More than 300,000 organizations use Microsoft Entra ID (Azure AD)

BENEFIT

<u>Single Sign-On</u>: IT administrator can more **easily and securely** manage users by being able to link MFP authentication to their own Azure AD-based systems.





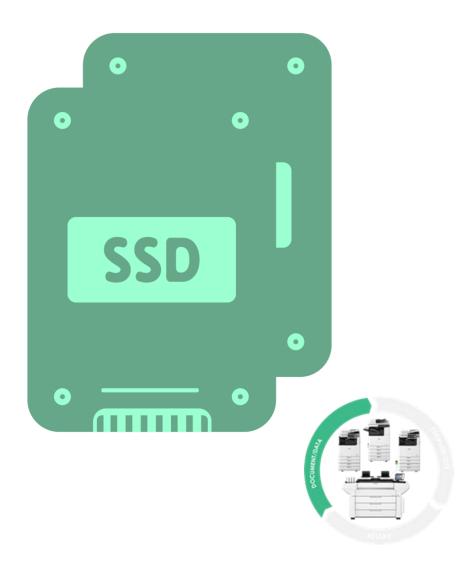
DATA ERASE



DATA ERASE

Canon devices feature DATA Erase, which ensures that data stored on the hard drive is securely erased after each task and at the end of the device's lifecycle.

- Protection of sensitive data: Immediate deletion of temporary files.
- Complete erase at end of life: Secure hard drive reset before the device is taken out of service.





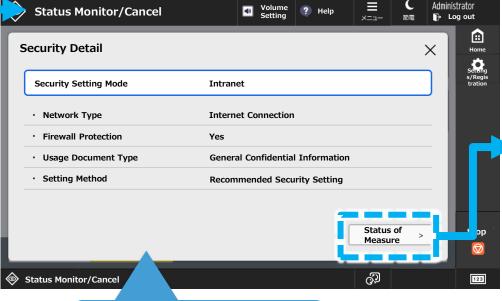
SECURITY SCREEN

Top screen of

Dashboard for Administrators







Customer environment information is displayed

Check the status of security measures

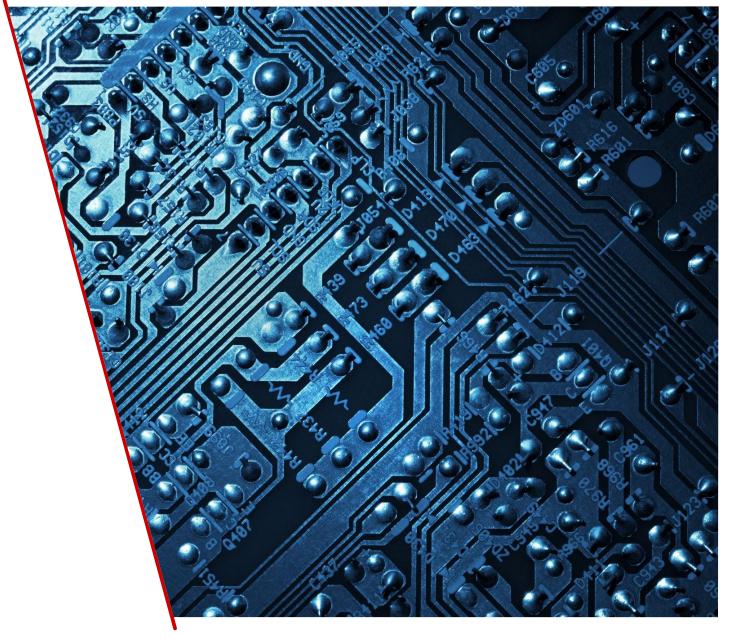
Links to settings guides



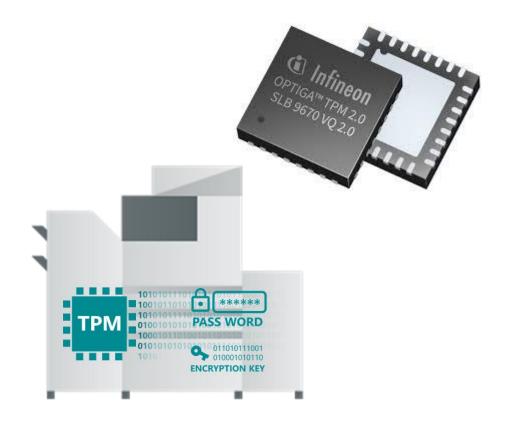




TRUSTED PLATFORM MODULE



TRUSTED PLATFORM MODULE



What is TPM?

Trusted Platform Module

Secure management of "critical data" such as encryption keys stored in the MFD

Store "critical data" encrypted with the TPM

TPM 2.0

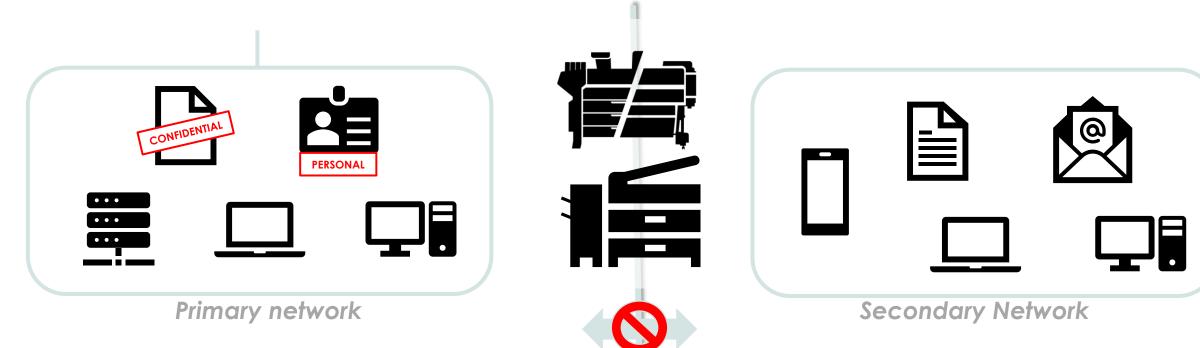
Stronger encryption technology protects critical data



DUAL NETWORK



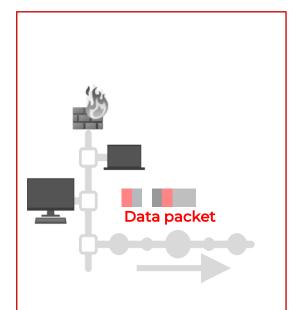
DUAL NETWORK



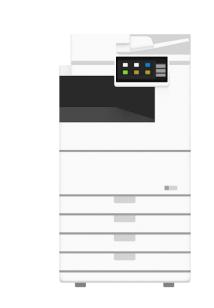
For example, the primary network should be used for secure and confidential information and secondary network for general use

Separation

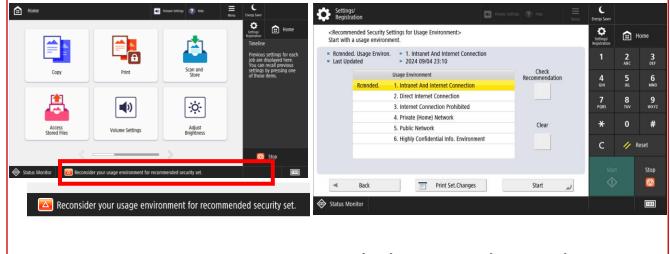
EVOLUTION OF SECURITY SETTINGS NAVIGATOR



STEP 1:
Collect data packets
from network



STEP 2: Automated security settings recommendations





- Prevent missing security settings
- With AI-based assistance, users with no IT knowledge can configure the appropriate security settings
- Seamless flow completed on the device



ALL-ROUND PROACTIVE SECURITY

Secure Print/Forced Hold Print

Prevent loss of documents

NIST Purge data erase

Protection against data leaks

Encrypted PDF

Protect data from unauthorised view

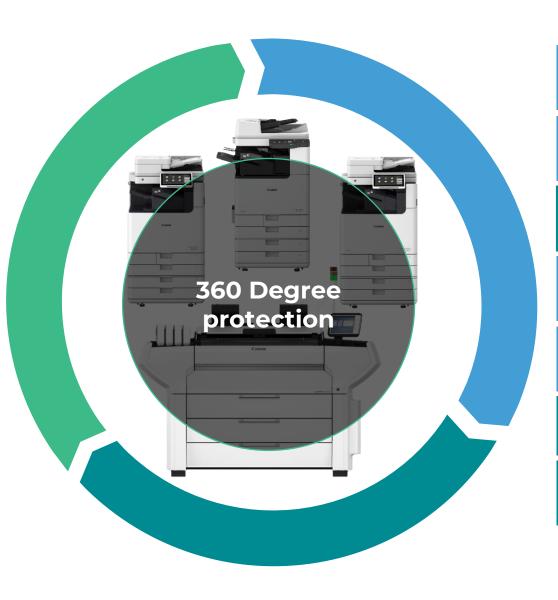
Multi-factor authentication

Access control

0Auth 2.0

Open standard authorisation

Microsoft Entra ID
Cloud based authentication



Verify System at Start-up

Prevent unauthorised changes

Trellix McAfee Embedded Control

Device protection from malware

TPM 2.0

Robust data encryption

FIPS 140 Level 3

Storage data protection

SIEM Integration

Real-time threat detection detection

SAN

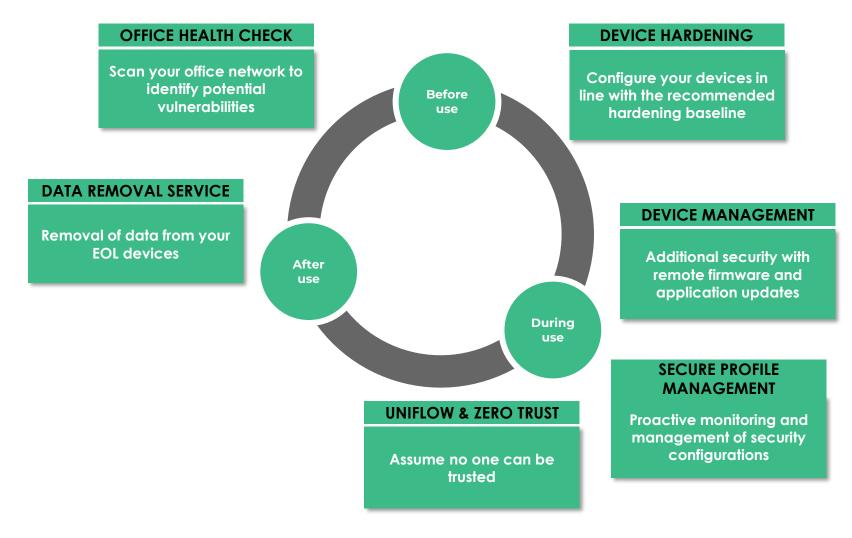
Multi domain certificate

WPA3-SAE Password protection





CANONS INFORMATION SECURITY SERVICES





OFFICE HEALTH CHECK

A security analysis of your IT environment:

✓ Scan

A scan of your IT infrastructure, including of your firewall configuration.

✓ Analysis and validation

Based on the latest known vulnerabilities and guidelines from system vendors.

Reporting

Detailed report, with risk descriptions and concrete recommendations.



DEVICE HARDENING

- Device Hardening Service is a security service for Canon imageRUNNER ADVANCE and imageFORCE devices.
- ✓ 'Hardening' helps to improve a printer's performance and make it resistant to security issues.
- ✓ Our service enhances the security provided as standard from the factory, allowing you to benefit from additional protection.





DEVICE MANAGEMENT SERVICE

- Device Management Service consists of various services such as:
- ✓ Fetching counter readings.
- ✓ Toner management.
- Proactive and remote services.
- **✓** Content Delivery Service.
 - firmware update.
 - security updates.



SECURE PROFILE MANAGEMENT

- ✓ Secure Profile Management focuses on keeping devices secure throughout the contract duration.
- ✓ The agreed configurations and security parameters are constantly monitored.
- ✓ In case of detected changes, the parameters are reset to the pre-agreed configuration.
- ✓ The manner and timing of repair are determined in advance.



UNIFLOW & ZERO TRUST

uniFLOW Online uses industry-leading Zero Trust principles.

Explicit verification

Always authenticate and authorise based on all available data points.

Assume breaches

Verify and analyse to improve threat detection and defence.

Access with the fewest privileges

Limit user access with 'Just-In-Time' and 'Just-Enough-Access'.



DATA REMOVAL SERVICE

Data stored in printers is often overlooked at the end of a contract.

There are three options:

- Secure Data Erase
- 2. Hard Disk Handover
- 3. Hard Disk Destruction

A physical inspection also takes place.

As proof of Data Removal, we provide a certificate.

