Process Fusion 360

WHITE PAPER

PF360 Print:
Multi-Layer Approach to
Cloud Printing Security

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There are numerous reasons and benefits to moving one's IT infrastructure to the cloud especially when it comes to corporate printing. Since it can result in reduced costs, reduced end-of-life hardware, and software concerns, alleviate long-term contracts and having the need to set aside time and resources to update software. It can also increase business agility, whereby both the business and the IT infrastructure can grow at the same rate. No more having to wait for that new server to be delivered.

Along with all these pros there are bound to be some cons. The main con that prevents organizations from moving to the cloud is security. However, with its multi-faceted approach, Process Fusion 360 Print secures your cloud printing architecture from all angles.

PF360 Print is an innovative product that empowers users with end-to-end secure cloud printing. This whitepaper will discuss the many security features offered by the PF360 Print solution.

256-Bit End-to-End Data Encryption

Encrypting corporate print data is of utmost importance to add an additional layer of security to print traffic as it flows to and from the local network. Without encryption of print data, print traffic is highly susceptible to network sniffing, wherein a device or software may be deployed to capture private network data that is being transmitted across an organization's network and the Internet.

Print data is often encrypted using applications which implement the Internet Printing Protocol to develop encrypted text. Adopting the use of secure connections when routing print traffic, such as SSL/TLS, IPsec, or other encryption methods, is another useful way to ensure complete print security.

With state-of-the-art data protection mechanisms, InfinityCloud ensures that HTTPS print traffic always remains secure and confidential. Using the latest 256-bit encryption which provides military grade protection for all print job traffic travelling between networks, enterprise decision-makers can rest assured that their vital corporate information is safe with PF360 Print.

Cloud Single Sign-On (SSO) and Two-Factor Authentication

For the user's convenience, PF360 Print can be configured to use cloud SSO which provides identity federation. The InfinitySend Agent retrieves the user's credentials and authenticates the user against Azure Active Directory or Google Workspace using the OAuth2 framework. This creates a trust between an organization's domain and InfinityCloud preventing the user from having to sign in multiple times.

To increase security even further, two factor authentication can also be configured such as users not only have to enter their credentials, but they also have to tap their RFID or HID smart card to identify themselves.

SecurePrint: One Virtual Print Queue

User-friendliness, cost-savings, and enhanced security protection are key to the success of any IT solution. Organizations must ensure that their IT systems and related workflows incorporate all three of these features. Printing, however, has developed a reputation of being a source of pain for both employees and IT administrators.

With complicated user interfaces, poor user experience, issues with driver misconfigurations, printer mapping errors, print data security concerns, and high network maintenance costs, printing within many organizations has become a nightmare for everyone involved.

Cloud printing has helped to overcome some of these issues, with organizations moving their infrastructure to the cloud, effectively lowering costs, and eliminating printer mapping and related misconfiguration issues. The SecurePrint queue is a secure virtual print queue that adds a whole new level of security to cloud printing.

Implementing PF360 SecurePrint enables users to send their print jobs to a single virtual print queue when they print from their workstations or mobile devices. This eliminates the hassle of monitoring issues resulting from multiple print queues, with only one print queue now being used by all users. After pressing print from within their user sessions, the selected print jobs are sent to the SecurePrint queue, where they remain until users make their way to either a vPad device or InfinityCloud Connector which is embedded on a printer. SecurePrint forms a part of the PF360 Print secure pull printing solution.

Secure Pull Printing

By deploying PF360 Print Secure Pull Printing solution, enterprise customers can achieve dual print security, as they add user-authenticated pull printing to the existing 256-bit encryption.

Secure pull printing significantly reduces the risk of possible security breaches, or corporate intelligence being stolen, because of hardcopy output containing sensitive corporate date being left at printers without being picked up or being obtained by unauthorized individuals.

With secure pull printing, users are forced to print consciously, and two-factor authentication is required to release their print jobs for printing.

For two-factor authentication, the UniPrint vPad comes with a built-in RFID or HID reader. External card readers are also available for use. Since the vPad is compatible with any printer make and model, standardizing an existing printer fleet is not necessary.

Print Job Statistics

All print jobs that are processed through PF360 Print are logged. These captured print job statistics help monitor printing usage. PF360 Print includes several useful reports to assist administrators with usage trends.

The reports included are the following:
- ✓ Printing activity by date
- ✓ Printing activity by user and date
- ✓ Printing activity by area and date
- ✓ Printing activity by printer and date

The area represents a geographical location. This can be a building on a campus, a floor of a building, a departmental area on a floor, or even what some organizations call a "pod", which can be an area on a floor, within a department.

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These reports which contain the raw data can also be viewed as pie charts and bar graphs. The reports themselves can also be exported to a comma-delimited file which can then be imported into a spreadsheet program and then manipulated to display whatever the administrator wants.

SOC 2, GDPR & ISO 27001 Certified

Process Fusion takes information security seriously and is SOC 2, GDPR and ISO 27001 certified.

Conclusion

While cloud providers, such as Microsoft establish a secure Azure cloud operating environment, they do not guarantee protection against possible print data breaches between the cloud and the network. This is where PF360 Print proves its benefit for any cloud environment. PF360 Print enables secure pull printing and mobile printing from the cloud.

Initially, PF360 Print converts and encrypts all print jobs to secure, 256-bit encrypted PDF print jobs, to build the first line of defense to print data breaches, even before the document is physically printed. With most enterprise print data breaches often occurring at the print stations and being associated with unauthorized hardcopy obtainment, PF360 Print goes on to significantly reduce this risk through its virtual print queue and secure pull printing.

Users often mistakenly leave their printed documents at the printer, out of forgetfulness, leaving sensitive information open to anyone. SecurePrint and secure pull printing prevent this situation altogether. SecurePrint forces users to password-protect their desired print jobs before they initially press Print. Pending print jobs are then delivered to and remain in InfinityCloud, waiting to be released, rather than automatically going through print servers and printing, as takes place in traditional printing environments. After arriving at the print release station and authenticating, users simply enter their secure password before their pending documents are finally released to the printer for retrieval.

For further security, PF360 Print also provides multifactor authentication, consisting of the user being required to authenticate via RFID or HID technology, along with entering the SecurePrint password before their print job is released for printing.

Try Process Fusion 360 Print for a FREE
30-day trial and see how easy cloud printing can be