

*Simple. Serverless. Secure.*

{ Secure **Cloud Printing**  
for Business }

# Secure Cloud Printing for Business

Cloud services can transform how today's businesses work, optimizing processes while reducing capital spending. uniFLOW Online is a secure cloud-based printing solution for small and medium-sized businesses designed to manage entire print environments. The solution aims to reduce overall printing costs and increase security.

**Are you still sourcing and maintaining server hardware for your print infrastructure?**

**Are your employees able to print documents securely?**

**Are you able to provide mobile print solutions to employees?**

**Are you aware of how much users print, copy, scan and fax?**

uniFLOW Online is the solution that will save costs, increase security and productivity and enable central control of all copying and printing.

# The Cloud is evolving

Cloud computing allows businesses to reassess how their products are designed and manufactured, and review how their customers purchase products and how processes and markets work.

Those organizations that embrace cloud services are driven by opportunities to increase flexibility within their markets and to benefit from computing resources whilst spending less. In addition, the cloud can rebalance competition between large and small enterprises by equipping small to medium-sized businesses with previous unavailable technologies.

Global technology leaders predict that cloud computing will be the first of the three most disruptive technologies to impact the global business-to-consumer marketplace over the next years.<sup>1</sup>

## Importance of Cloud Services Continues to Rise<sup>2</sup>

### Cloud investment continues to grow

56% of business and IT leaders plan to invest heavily in cloud technologies

### Cloud develops to a key driver for improving productivity

79% of business and IT leaders expect to achieve significant improvements in productivity through cloud investments

### Cloud services lead to cost savings

58% of business and IT leaders expect significant cost savings by using cloud services

<sup>1</sup> KPMG (October 14, 2015): KPMG Technology Innovation Survey 2015

<sup>2</sup> Oxford Economics / SAP® (2013): Unlocking the cloud



# Challenges for Cloud-based Print Services

Cloud doesn't have to be **game-changing** in order to be useful. Moving local print management to a fully cloud-based system reduces infrastructure management costs significantly in comparison to current platforms. There are a number of practical challenges for business and IT leaders such as:

- **How is system security maintained?** Using cloud-based print services can create data-protection challenges.
- **How to avoid security breaches?** People who share network devices expect their documents to remain private.
- **How can employees print from their mobile devices?** As mobile device use in business grows, printing just from PCs is no longer sufficient.
- **How can an organization maintain an overview of printing costs?** Administrators require comprehensive reporting on user behaviour.



# uniFLOW Online

## Simple, Serverless, Secure

uniFLOW Online has been developed from the ground-up to leverage the benefits of the Microsoft Azure™ cloud platform, providing superior enterprise platform security, scalability and resilience for small to medium-sized businesses.

- **Local print jobs and regional data centers:** Secure print jobs stay within the customer's local network, ensuring that documents are always safe. All data remains within the region; it is not exported to other legal jurisdictions.
- **Increase document security:** By providing secure access to devices, uniFLOW Online ensures confidential documents will not fall into the wrong hands.
- **Increase office productivity:** Employee productivity can be increased by providing mobile printing facilities for users where they are needed.
- **Control and reduce printing and copying costs:** With uniFLOW Online administrators can track and assess printing, copying, fax and scanning costs directly in the cloud and allow costs to be allocated to individual users or departments.

Approximately 40 % of business and IT leaders indicate that security is their primary concern.<sup>3</sup>

<sup>3</sup> Oxford Economics / SAP® (2013): *Unlocking the cloud*

# Unique uniFLOW Technology combined with an innovative Cloud Platform

## { One single Print Queue }

The uniFLOW Universal Driver provides a single print queue that users can print their jobs to regardless of the printer model being used. Print jobs are encrypted and compressed as they are sent directly from the client PC to the printer.

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## { Local Processing of Print Jobs }

It's an innovation in enterprise printing. Installed directly on the PC, the uniFLOW SmartClient processes the user's print jobs and keeps them safe until they are released.

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## { Control Device Authentication }

The Universal Login Manager is installed directly on the ULM-enabled Canon device and communicates directly with uniFLOW Online and the uniFLOW SmartClient. It controls the device authentication process and shows the list of print jobs available to the user. In the case of non-Canon devices, the uniFLOW Release Station takes over this functionality.

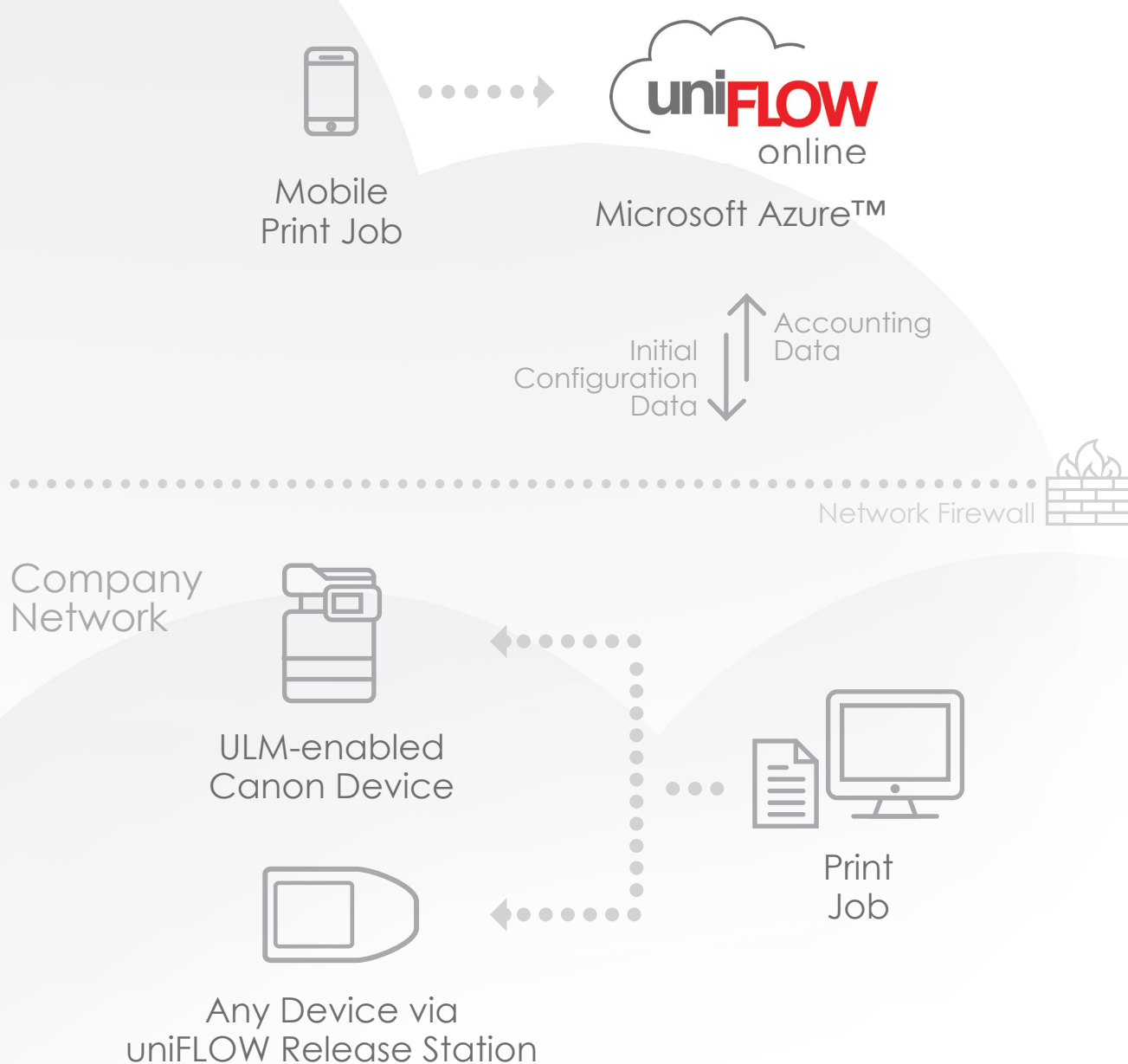
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## { Innovative Cloud Platform }

Using uniFLOW Online's innovative technology there is no requirement for a local server. All configuration and management of the system takes place in the cloud, providing administrators with online reporting tools and dashboards.

Furthermore, uniFLOW Online does not store any user credentials such as passwords. Instead, it uses a claims-based approach to authenticate users, whereby it accepts logon credentials from multiple identity providers. The default provider is Microsoft Azure Active Directory. Alternatively administrators can use Active Directory Federation Services (ADFS) to integrate with e.g. Microsoft Office 365 or their own locally hosted Active Directory®. In addition it is possible to make use of shared web identity providers like Facebook, Google, Yahoo!® or Windows Live ID.

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# Answering Today's Business Needs for Printing







## { Flexible Authentication }

Document security is preserved as a user has to be physically next to a device to gain access to their personal secure print queue. To release print jobs users simply authenticate using their company proximity card or by entering a PIN code respectively user name and password.



## { Print Confidential Documents Securely }

With uniFLOW Online users are able to print confidential documents securely. All print jobs stay in a users' personal secure print queue until the user authenticates at a device and releases them. Print jobs follow users from device to device allowing the release of print jobs on a printer of their own choosing. Users can also alter finishing options directly at the device before printing.



## { Send Print Jobs from Anywhere }

Regardless of location, users can use their smartphones or tablets to print documents securely. All submitted jobs appear in a user's secure print queue and are accounted for, charged and managed correctly. Mobile printing is also offered for guest users.



## { Track Print, Scan and Copy Costs }

uniFLOW Online allows administrators to track their organization's printing, copying, faxing and scanning costs enabling the allocation of costs to a user or department. The uniFLOW Online dashboard displays all valuable information regarding the organization's print, scan and copy environment. In addition, different reports can be created to give detailed user, device and sampling summaries.



## { Cloud-based Infrastructure }

Using uniFLOW Online's innovative technology there is no requirement for a local server. All configuration and management of the system takes place in the cloud, providing administrators online reporting tools and dashboards. For normal print operations even no continuous connection to uniFLOW Online is required.

# Immediate Benefits

In 2015, 12.4% of total data breaches were paper-based.<sup>1</sup>



## { Prevent Unauthorized Use of the Device }

uniFLOW Online enables administrators to restrict printer access to authorized users only. This prevents any breaches of data and misuse as the device is locked so that print, scan, copy and fax functionalities are unavailable to unauthorized visitors or employees.



## { Increase Document Security }

Protecting information is a key to any data loss prevention policy. Should sensitive information e.g. contracts, staff payroll find its way outside an organization its reputation and brand image are likely to be damaged and could incur heavy fines. Using a single driver, uniFLOW Online enables users to print confidential documents securely using any connected device.

Approximately 35% of smartphone and tablet users are currently unable to print from their devices.<sup>2</sup>



## { Improve Office Productivity }

uniFLOW Online enables employees and also visitors if needed to print from mobile devices giving greater flexibility in office workflows. As well as facilitating new working processes the print infrastructure provides enhanced support so users can retrieve print results faster and easier. Print jobs can also be modified on demand before being released, saving valuable time.

A recent study by the IDC showed that “75% of users say the business value (of mobile printing) is similar to PC printing, and another 15% say it's actually greater.”<sup>3</sup>

<sup>1</sup> cf. Identity Theft Resource Center® (ITRC) (25.01.2016): <http://www.idtheftcenter.org/ITRC-Surveys-Studies/2015databreaches.html>

<sup>2</sup> cf. International Data Corporation (IDC) (July 2015): <https://www.idc.com/getdoc.jsp?containerId=prUS25785715>

<sup>3</sup> cf. International Data Corporation (IDC) (July 2015): <https://www.idc.com/getdoc.jsp?containerId=prUS25785715>



## { Gain Control over Costs }

The volume of printing that occurs in an office can be surprising. One of the best ways to cut down unnecessary costs is to ensure users print only what they need. uniFLOW Online's serverless print management solution helps administrators take complete control of printing and copying activities. It can highlight expenditure by users/departments and pinpoint areas where costs can be scaled down. Thanks to its unique technology, immediate financial benefits are realized by the elimination of local print servers and reducing the burden on IT departments.

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## { Reduce the Impact on the Environment }

uniFLOW Online can help to reduce environmental impact and support sustainability initiatives by optimizing printing procedures and improving internal processes that rely heavily on paper. This solution prevents unnecessary paper waste as users can only print what they need. Finishing options can be changed at a device before printing so saving reprinting and false output. uniFLOW Online can help reduce power consumption of the print infrastructure by eliminating 'Always On' print servers across an entire organization.



### { Simple, Serverless, Secure }

uniFLOW Online provides the answer to today's challenges of organizations to reduce IT overheads, improve productivity and security.

**uniFLOW Online means no costs for local servers and their maintenance.**  
**uniFLOW Online enables your employees to print all documents securely.**  
**uniFLOW Online provides mobile printing 24 hours a day, 7 days a week.**  
**uniFLOW Online tracks print and copy costs and records how users print.**