Embedded Applets for Canon Devices
Device-integrated Functionality available across Platforms

Today, many organizations operate with a mixed fleet of printers, scanners and multifunctional devices. uniFLOW embedded applets, available for a range of Canon devices, provide a device-integrated solution via the built-in screen and device keypad providing the end user with a convenient, single user interface.
uniFLOW brings secure print and scan technology to all your Canon devices:

- Secure printing and scanning with the uniFLOW Embedded Applet for **Canon MEAP**
- Secure printing with the uniFLOW Embedded Applet for **Canon Compact Multi-Functional Printer**
- Secure printing with the uniFLOW Embedded Applet for **Canon Single Function Printer**
- Document Process Automation on **Canon Document Scanners**
- Secure printing with the uniFLOW Embedded Applet for **Océ Large Format Printers**
Canon imageRUNNER ADVANCE

Canon imageRUNNER ADVANCE printers operate over a MEAP platform, enabling the installation of the uniFLOW applet on the printer. The large intuitive color touch screens maximize the full capabilities of uniFLOW. With the uniFLOW Embedded Applet for Canon MEAP, users can print, copy and scan in a secure and managed way.

### Multiple Authentication Options

With uniFLOW, device access can easily be controlled. Users can choose from multiple authentication options e.g. card login, username/password, PIN code, job code and anonymous login, in order to securely release print jobs from their personal secure print queue.

### Easy Printing for Guests

Guest users are also able to print documents simply by sending an email. uniFLOW then generates a response containing a job code allowing the guest to login to a device to release print jobs. The guest queue can also be configured to allow guest users to change finishing options at the Canon device.

### Unified Printing and Scanning

With uniFLOW, users will have the same user interface for both printing and scanning. Once logged on, users can select their secure print queue or their personalized scan workflows, creating a unified user experience.
{ Personal **Secure Print Queue** }

The secure printing functionality allows users to release print jobs conveniently at any device, within the organization, that is connected to uniFLOW. All print jobs are stored in a user’s personal secure print queue from where they can release or delete them. After a pre-defined time, jobs can automatically be deleted and cost savings are available for review in the uniFLOW print reports. If the re-print functionality is enabled, users can view what has previously been printed and reprint them again at the device screen.

![Secure Print Queue](image1)

{ Change **Finishing Options** at the Device }

Before releasing a print job, users still have the opportunity to determine how each job should be printed by changing finishing options e.g. duplex, color mode or paper type directly via the device screen.

{ Personalized **Scan Workflows** }

In general, users may have different scanning requirements according to their job role. With uniFLOW, the administrator can grant different access rights to workflows for single users and groups. These workflows follow the user around the organization.

![Scan Workflows](image2)
Convenient **Scan Interface**

After deciding on a scan workflow, an intuitive scan interface is displayed to start the scan process. When scanning is completed, a preview of the documented is generated, allowing the user to verify the scan job before sending it to the appropriate document storage.

**UI Customization Options**

The look and feel of any Canon imageRUNNER ADVANCE can be customized to reflect corporate identity. uniFLOW is supplied with four built-in user interfaces from which the administrator can select their preferred interface. When adapting the user interface, it is also possible to differentiate between customization of the login screen and the secure print/scan screen.
Canon Compact Multi-Functional Printers

Canon Compact Multi-Functional Printers (CMFP) are imageRUNNER and i-SENSYS/ imageCLASS office printers which do not operate over a MEAP platform. The uniFLOW applet is embedded into the firmware of the product, enabling the devices to connect to uniFLOW.

{ Multiple Authentication Options }  
With uniFLOW, user access to Canon imageRUNNER devices can easily be controlled, from the complete CMFP functionality or down at the application level, which restricts access to the Print My Jobs application. Users benefit from multiple authentication options e.g. card login, username/password, PIN code and department ID login to securely release their print jobs.

{ Logging on with an empty Budget }  
If a user has exhausted their printing allowance, the system can be pre-configured to allow logon and continued used of the device so that they are not prevented from printing completely.
Personal **Secure Print Queue**

The Print My Jobs functionality of the uniFLOW Embedded Applet for CMFP provides users with the convenience of releasing their jobs at any device within the organization connected to uniFLOW. All submitted print jobs are stored in the user’s personal secure print queue. Depending on pre-set “Print Job Confirmation” settings, there is the option to have the job list displayed on the screen. The administrator can also decide if the price per job is listed.

**Auto Release of Print Jobs**

If previously defined, print jobs can automatically be released after logon without having to open the Print My Job application, allowing for faster print job retrieval.

Multi-Level **Cost Center Selection**

With uniFLOW, all costs related to printing, scanning or copying can be allocated to specific users, departments or cost center. Every organization has the option to assign costs to multiple hierarchical levels of cost centers, providing the ability to charge costs back to the appropriate customer, a project code or even sub-divide departments by job role. Users can even change the cost center directly at the device.
Canon **Single Function Printers**

MEAP-enabled Canon Single Function Printers (SFP) are i-SENSYS/ imageCLASS office printers which operate over a MEAP platform. A uniFLOW applet can be installed on the printer in the form of a MEAP application, enabling a secure release printing solution for single function printers.

{ **Secure Access** to your Canon SFP }

With uniFLOW, user access to Canon MEAP-enabled SPFs can be restricted therefore increasing the organization’s security. Users can authenticate at the laser printer using the MiCard card reader or via PIN code login.

{ **Personal Secure Print Queue** }

With the uniFLOW secure printing functionality for MEAP-enabled SFPs, users can release their jobs at any device within the organization connected to uniFLOW. Once the user is logged on, the secure print queue is displayed from which users can select the print job to be released or deleted, thus ensuring document security at all times.
## Key Benefits

Differences in functionality between the Canon office printers are illustrated in the following table.

### { Core Functionality }

<table>
<thead>
<tr>
<th>Feature</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device locking</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
<tr>
<td>Copy accounting</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
<tr>
<td>Print accounting</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
<tr>
<td>Single-level cost center selection</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Multi-level cost center selection</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
</tbody>
</table>

### { Device Authentication }

<table>
<thead>
<tr>
<th>Authentication Method</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIN code</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
<tr>
<td>Username/ password</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Job code</td>
<td>✓</td>
<td>⇐</td>
<td>⇐</td>
</tr>
<tr>
<td>Card login - supported card readers (direct connection)</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
<tr>
<td>MiCard Multi/ HID/ HITAG</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MiCard PLUS/ MiCard PLUS-2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Anonymous login</td>
<td>✓</td>
<td>⇐</td>
<td>⇐</td>
</tr>
<tr>
<td>Card registration on device</td>
<td>✓</td>
<td>⇐</td>
<td>⇐</td>
</tr>
<tr>
<td>Customizable login screen</td>
<td>✓</td>
<td>⇐</td>
<td>⇐</td>
</tr>
<tr>
<td>Device function restriction based on user login</td>
<td>✓</td>
<td>✓</td>
<td>⇐</td>
</tr>
</tbody>
</table>

### { Secure Print Job Submission }

<table>
<thead>
<tr>
<th>Submission Method</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submit via uniFLOW Universal Driver</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Driverless printing from OS X® using Apple AirPrint®</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Submit via email/ web browser</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Submit via native uniFLOW app</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Submit via Apple AirPrint®</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Submit via Google Cloud Print™</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

[✓] = Supported  [✗] = Not Available
### Secure Print Release

<table>
<thead>
<tr>
<th>Feature</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic job release after authentication</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Individual job selection/deletion on device</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Thumbnail preview</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Change job options before release</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Print shared jobs from archive</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

### Native Device Scanning

<table>
<thead>
<tr>
<th>Feature</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan to me via iSend</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Scan to Folder via iSend</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Scan to email</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

### uniFLOW Scanning

<table>
<thead>
<tr>
<th>Feature</th>
<th>imageRUNNER ADVANCE</th>
<th>CMFP</th>
<th>MEAP-enabled SFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>uniFLOW scan engine features</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>uniFLOW scan workflows</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

For information about supported devices, please refer to the NT-ware DIF portal.
Added Value for your Canon Office Printers

**Controlled access to devices with user authentication**, restricting unauthorized use and increasing security within the organization.

**Controlled release of jobs from a personal secure print queue** ensures documents do not get mixed up with colleagues’ documents.

**Finishing options can be accessed directly at the device** ensuring the correct output is achieved, reducing costly misprints.

**Access to multi-level cost center selection at the device** ensures charges and/or costs are allocated correctly.

**Increased productivity with personalized scan workflows** for processing and distribution of scanned documents.

**The ability to customize the user interface** to enhance and promote the company’s corporate identity.
Canon **Document Scanner**

Canon imageFORMULA ScanFront and Canon imageFORMULA DR scanners can benefit from uniFLOW advanced scanning capabilities. Developing scan processes from simply imaging paper to true information capture, a uniFLOW-enabled document scanner provides users with secure, role-specific scanning workflows and image processing options.

**{ Fully personalized Scan Workflows }**

Users can securely scan, process and distribute information directly where it needs to go, reducing or even eliminating manual processing and filing. Workflows follow users between Canon document scanners and Canon imageRUNNER ADVANCE devices, offering the same user experience regardless of the device.

**{ Process and distribute }**

Features include data entry, barcode or OCR-based data extraction and the ability to validate data against external databases or built-in field rules. With additional features such as document fingerprint, form handling and document conversion, the information capture potential is endless. Users can then easily distribute documents to a variety of destinations including Microsoft SharePoint®/SharePoint® Online, Therefore™/Therefore™ Online, RightFax or Hyland OnBase® as well as to popular cloud-based destinations such as Microsoft OneDrive®/OneDrive® for Business, Google Drive™ or Dropbox.

**{ Centralized Management }**

The process of deploying and managing scan workflows is as simple as running a wizard which the administrator can use to provide destination details, processing and conversion settings and user interactions. New workflows automatically appear on all connected scan devices, and using built-in Access Control Lists, they can be displayed to specific users, user groups or the entire organization.
Added Value for your Canon Document Scanner

**Personalized workflows**, following users from Canon imageRUNNER ADVANCE devices to Canon document scanners, ensuring users see only those scan processes relevant to their job role.

**Controlled access to devices with user authentication** via proximity card, PIN code or a username/password combination as well as anonymous login.

**Optical character recognition** supporting over 130 languages and **advanced image processing options** including despeckle, deskew, blank page removal and black border removal.

**Powerful scan workflows** with optional field validation, rules or automatic data lookups as well as batch scanning, document separation and barcode recognition.

**Save files in various destinations** as editable Microsoft Word documents, Microsoft Excel® spreadsheets, highly compressed text-searchable PDF, TIFF or JPEG.

**Manage scan workflows centrally** across the whole fleet with increased security and use tracking.

**Scan directly into a variety of destinations including** Microsoft SharePoint®/SharePoint® Online, Therefore™/Therefore™ Online, RightFax, Hyland OnBase®, Microsoft OneDrive®/OneDrive® for Business, Google Drive™, Dropbox and various others.
Océ Large Format Printer

The Océ PlotWave and the Océ ColorWave are large format digital plotters that make printing, copying and sharing project documents easier than ever. uniFLOW enhances the capabilities of Océ Large Format printers with the Clear Connect user interface to a previously unknown level. Users can print securely by using the uniFLOW Embedded Applet for Océ Large Format Printers installed on the device.

**Easy Job Submission**

Users can submit print jobs via the Océ Windows® Printer Driver 2. Once a file has been selected for printing, all appropriate settings can be applied directly to the job. The user selects a cost center or project department (see multi-level cost center selection below) then presses “print” after which the print job is stored on the uniFLOW server ready to be released when required.

**Multiple Authentication Options**

With uniFLOW, access to devices can easily be controlled. Users benefit from multiple authentication options e.g. card login, username/password, PIN code or a combination of the methods.

**Personal Secure Print Queue**

All print jobs are stored in a user’s personal secure print queue from where users can release or delete them directly at the user interface on the device. Each document name is shown with details such as file name, date and time of submission and username. After a pre-defined time, jobs can automatically be deleted and cost savings are available for review in the uniFLOW reports. If the re-print functionality is enabled, users can view what has previously been printed and reprint them again at the device screen.
{ Productive Copying and Scanning }
uniFLOW uses the Océ embedded scan and copy functionality allowing users to choose from a range of settings e.g. file type, color mode and image quality. A scan preview enables users to check the scan is of good quality. Afterwards, they can switch back to their personal secure print queue directly from the scan and copy mode.

{ Multi-level Cost Center Selection }
uniFLOW directs the multi-level cost centers to the device controller which then makes accounting information available to the Océ Windows Printer Driver 2. Users can select the relevant cost center, project, department or customer from a drop down list so that all printing costs are allocated correctly. Users can also select cost centers at the device user interface which is particularly useful for accounting all scan and copy activities.
{ Customized User Interface }

The look and feel of the Océ Large Format Printer can be customized to reflect the corporate identity. uniFLOW is supplied with four built-in user interfaces from which the administrator can select the preferred option. Customization of available options at the device guarantees the same user experience across all platforms as print results are generated with a single user interface saving valuable time.

{ Track Costs and Savings }

uniFLOW receives all print, copy and scan data directly from a device’s internal controller. All information as to which user printed, copied and scanned a job, how many sheets were used, the total square meters/feet of the job and the exact size and media used is recorded and used for report generation. Reports can be provided specifically for the large format devices or in a standard form that lists all small and large format print, copy and scan jobs.

{ Device Management }

The entire device fleet in an organization can be monitored by uniFLOW to provide an instant overview as to the location and status of each device including media and toner levels.
Added Value for your Océ Large Format Printer

Coordinated printing workflows for both small and large format devices makes printing simple for the end-user

Maintain document security across the organization

Controlled access to devices by means of user authentication improves security within the organization

Controlled job release from personal secure print queues so documents are never mislaid or mixed up with other users’ documents.

Benefit from cost savings by automatic, manual deletion or after a pre-specified time of print jobs

Combined reporting for all small and large format printing, copying and scanning jobs provides clear and concise accounting
Immediate **Benefits**

### Increase Document Security

User authentication means uniFLOW promotes document security. All print jobs submitted to uniFLOW are stored in users’ personal secure print queues and can only be released when the user is at the printer.

### Improve Employee Productivity

One user interface for office and large format print and scan devices eliminates waste and provides a simple to use print, copy and scan facility.

### Control and reduce Costs

The built-in reporting system allows organizations to track and assess printing, copying and scanning usage, charge costs correctly and audit current usage. The ability to delete obsolete jobs means that cost savings can be monitored regularly.

### Personalized Scan Workflows

Users have immediate access to their specific scan workflows at their desk or at any connected Canon scan device throughout the organization.

### Reduce Errors caused by manual Processing

By automatically capturing metadata, errors caused by manual entry will be avoided and digital documents can be retrieved faster.

### Reduce Document Storage Costs

Once documents have been scanned, they can be shredded rather than be stored on-site. This saves costly office space.