

MiCard V3 Installation Manual (Full Install Guide)





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Short Summary	This manual describes the features, the installation, and the configuration of the MiCard V3 Reader in detail.					
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Friday, October 26, 2012, Bad Iburg (Germany)

Symbols

Text Styles

Text that appears in this style is used for screen text that appears in the uniFLOW user interface and on user interface controls.

Text that appears in this style is used for User entries on screen, text that the user actually has to type in.

Text that appears in this style is used for hyperlinks to an external web page, or internal links to other pages of this manual.

Text that appears in this style is used for code examples: XML code, variables or regular expressions.

Pictograms



Important note: Information that is crucial for the correct functioning of the uniFLOW software.



External manual: Pointer to additional manuals for third party hardware or third party software.



Region Specific Feature: In case some features of uniFLOW are not universally available, this icon will indicate it.



Link to an external reference within the WWW.



Detailed explanation of configuration settings or operational procedures.

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In case of errors or improvement suggestions please contact <u>documentation@nt-ware.com</u>.

Contents

4	Index	19
3.1.3	Device Specific MiCard V3 Configuration	16
3.1.2	Configuration - Multi	15
3.1.1	Configuration - General	14
3.1	Global MiCard V3 Configuration	14
3	MiCard V3 Configuration on the uniFLOW Server	13
2.1	Upgrading from SSP to uniFLOM OM V4.1 or uniFLOW V5.0	13
2	Configuration	10
1.8	Beep Status	9
1.7	LED Status	9
1.6	Installation of the MiCard V3 on the imageRUNNER ADVANCE	5
1.5	System Setup	4
1.4	Supported Card Standards	4
1.3	FCC and IC Compliance Note	4
1.2	Requirements	2
1.1	Scope of supply	2
1	MiCard V3 contactless card reader	2

1 MiCard V3 contactless card reader

MiCard V3 provides an easy to use, easy to install and cost effective solution for user identification with a contactless card alongside your Canon iR and Canon imageRUNNER ADVANCE. With MiCard V3 users can be identified by simply waving their card over the reader. After identification the device unlocks and you are able to make your copies or pick up your secure print jobs.

Installation and configuration has never been easier. You simply connect the MiCard V3 directly to the device via USB. Even power is supplied via USB, thus providing a cost effective solution by removing expenses normally required for an additional interface.

After connecting MiCard V3 to the device, it will automatically be recognized and configured by the uniFLOW MEAP application, which has been integrated with the device.

There are many different technologies for Radio Frequency Identification (RFID) on the market. For additional flexibility, the MiCard V3 contactless card reader is available in a number of different versions, all supporting different RFID frequencies and technologies.

• MiCard V3 Multi

The uniFLOW MEAP application embedded in the device will also make your life in the office much easier. You can use it for printing confidential information securely. Simply select the print job you want to print directly from the control panel of the device, with no risk of being intercepted by anyone else.

Additionally, it can be used for charging copy jobs back to specific cost centers, departments or customers, printing of general/internal company documents, or for cross-authentication into other applications, like eCopy for example.

1.1 Scope of supply

The MiCard V3 reader package includes

- the MiCard V3 reader unit
- a short USB cable for the installation in an imageRUNNER ADVANCE (please refer to chapter Installation of the MiCard V3 on the imageRUNNER ADVANCE (on page <u>5</u>))
- a longer cable to connect the reader unit to another imageRUNNER
- a pull relief
- adhesive tape
- a Quick-Install Guide

1.2 Requirements

Rated Voltage:	5 V === LPS
USB:	1.1 (Full-Speed) or 2.0 (Hi-Speed
Ambient Temperature:	0 +50 °C (23 +122 °F)
Canon Device:	 Has to be a Canon MEAP enabled MFP USB Application Interface board of the respective Canon iR or Canon imageRUNNER ADVANCE uniFLOW Login Manager/MomClient (Secure/Public Printing Applet) V2.1.0 onwards (V2.4.0 recommended)
uniFLOW:	uniFLOW OM / uniFLOW and / or RPS V4.0.5 or higher



The MiCard V3 is supported by every MiCard supported MEAP version. Note that the extended configuration of the MiCard V3 is only possible with MEAP applets from V2.4.0 onwards.

Important Note:

Changes and/or modifications of the MiCard not approved by NT-ware Systemprogrammierung GmbH will make void the user's authority to operate the MiCard.

CE

1.3 FCC and IC Compliance Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

1.4 Supported Card Standards

MiCard V3 Multi	
Read unique ID number using the following standards	MIFARE [®] and MIFARE [®] ultra light technologies, MIFARE [®] DESFire (EV1), iCLASS [®] , Inside Contactless, other ISO15693 / ISO14443A cards/transponders.
Configurable	LEGIC prime, LEGIC advant
Operating frequency	13,56 MHz

1.5 System Setup

- Ensure that the MFP is equipped with a USB Application Board.
- The uniFLOW Login Manager or MomClient (Secure/Public Printing Applet) V2.1.0 onwards (V2.4.0 recommended) should be installed and running on the MFP. For installation details of the uniFLOW MEAP Applets, please see the uniFLOW User Manual.



Note that the extended configuration of the MiCard V3 is only possible with MEAP applets from V2.4.0 onwards.

- To connect the MiCard V3 reader to the MFP, simply plug the USB cable into the USB Host Connection of the MFP and into the USB socket of the card reader (Please be aware that the USB connections may be arranged in a different order depending on the model of the copier). You can also connect the MiCard V3 reader to a USB hub that is connected to the MFP, the reader will work in the same way. The USB connection also acts as the power supply for the MiCard V3 reader.
- On 'power up', the MiCard V3 will send off two short beep tones and the red and green LED's will flash twice.

1.6

Installation of the MiCard V3 on the imageRUNNER ADVANCE

To install the MiCard V3 into a Canon imageRUNNER ADVANCE device proceed as follows.



The mounting guidelines below are based on an imageRUNNER ADVANCE C5051i. On other imageRUNNER ADVANCE devices this process is generally the same. However, some differences may occur concerning the dismounting of the reader cover. This is shown in a separate picture at the end of this topic.

Required components and tools:

- Screwdriver cross recess
- MiCard V3
- Hook-and-loop fastener
- Short USB cable (delivered with the MiCard V3)



The MiCard V3 is delivered with a pull relief. Please do not use the pull relief if you install the MiCard V3 in an imageRUNNER ADVANCE.

Installation on an imageRUNNER ADVANCE C5051i:



The installation of the MiCard V3 card reader in an imageRUNNER ADVANCE should only be carried out by trained and authorized people with expert knowledge.

The device must be switched off and the power cord must be unplugged before you start any operation on the device.

Installation on an imageRUNNER ADVANCE C5051i:

• This is the control panel of an imageRUNNER ADVANCE C5051i.



• Pull the control panel forward, towards you.



• Unscrew the screw on the right side of the reader cover.



• To open the cover, pull it towards you and lift it up.



• Detach the surface cover of the reader cover to mount the hook-and-loop fastener.



• Attach the hook-and-loop fastener as can be seen in these pictures.



• Attach the surface cover to the reader cover and screw in the cover screws.



 Assemble the MiCard V3 as can be seen in the next picture. It is important that you assemble the device like that, otherwise the LEDs of the MiCard V3 will not shine through the half transparent cover of the card reader case. Ensure the USB cable doesn't cover the mounting clip of the reader cover. Tighten the hook-and-loop fastener.



• Plug in the USB cable (USB sign facing the back of the device, i.e. not towards you) and close the cover.



• Screw in the cover screw.



• Slide the control panel back into its original position.



• When all covers are closed, you can switch on the device. The machine and the card reader will boot up. During the boot up process of the card reader, the red LED of the MiCard V3 should flash. See the chapter on LED Status (on page 9) for more information about the different LED colors and their status descriptions.



Other imageRUNNER ADVANCE models:

• On other imageRUNNER ADVANCE models like the C9070PRO for example, or the C7065, open the toner cartridge cover and unscrew the two card reader cover screws as shown in the picture. Proceed as described above.



1.7 LED Status

The MiCard V3 reader is equipped with 3 status LEDs: green (left), yellow (middle) and red (right). The table below shows the status information given by the respective LED.

Status	Green LED	Yellow LED	Red LED
Booting up	flashing		flashing
Not synchronized			flashing
Synchronized (operating)		flashing	
Authentication OK	on	flashing	
Authentication failed		flashing	on

1.8 Beep Status

The MiCard V3 reader is equipped with a little beeper which emits different beep tones for different statuses. The table below shows the status information given by the beeper.

Status of the Beeper	Beep Signal
The MiCard V3 is booting up.	2 x fast
The MiCard V3 is not parameterized which means, there was no saved config found.	2 x slow
The MiCard V3 is parameterized. A configuration was found on the device.	1 x short
If parameters are sent to the MiCard V3	2 x slow
A card has been detected.	1 x long

If a *Facility Code* has been detected as invalid. 3 x fast

2 Configuration

The MiCard device works without any additional configuration, however, some "advanced" options are available.

When using uniFLOW OM V3.1.1 or higher you can see the connected MiCard readers on the *MEAP/miniMIND* Status tab (or *List view* tab for uniFLOW V5.x) of the main menu *Connections.*

By clicking on in the ID-Device column, a new window will open showing you the advanced options. If you are using a uniFLOW version older than uniFLOW OM V3.1.1, you won't see the connected MiCard readers in the status overview, but you can open the configuration page using this URL:

http://<mfp-ip>:8000/usbidmodule/base.htm

Replace the term 'MFP-IP' between the brackets with the IP number of your printing device.

uniFLOW	(SER'	VER CONFI	GURATION	
	Agents / Terminals	als							
Base Data	MIND & microMIND MEAP &				MEAP & min	imind			
	Default Behavior	Serial No.	Name	IP Address	l. Conn.	Licensed	Behavior	ID Device	
Disker	List view	DCF00002	iR C2380/2550	10.120.2.2	10:40:11		not available	not available	
	Configuration Upload Resources	EZU00213	iR-ADV C2020i/2030i	10.120.52.157	10:40:11		not available	MiCard V2 USB Multi Reader	
Connections	MiCard V2 CMFP	GNM13776	iR-ADV C5030/5035	10.120.54.82	10:40:11		not available	MiCard V2 Multi 2.01.14	
and the second sec	NT-ware MoneyLoader	KNQ01143	iR 2570C EUR	10.120.2.12	10:40:11		not available	not available	
Server Config.	PC100 IPC PayCon	MYU00006	iR 3180C EUR	10.120.2.15	10:40:11		not available	MiCard V2 HID Prox 2.01.17	
Module Config.	E ICS Money Loader Netcard Money Loader				1				
Info									

Click on the ID-Device column to open a configuration pop-up. This will look like the screenshot below:

Connected ID Module: MCard V2 HID Prox 2.01.05 (confra) Last Read ID: 18701 Conversion Result: 18701 Code Remove first Code Remove first Code Remove Last 0 Code remoth 0 Code constraints ID 1 Internet Internet ID 1 Internet Inter	FLOW	MEAP Configuration
Connected ID Module: MCard V 41D Proc 20.105 (config) Last Read ID: 18701 Conversion Result: 18701 Code Remove First 0 Code Remove Last 0 Code Remove INs1 0		
Last Read ID: 18701 Conversion Result: 18701 Code Remove First 0 Code Remove First 0 Code Remove Last 0 Code composition 10 Code Composition 10 Internet 1	Connected ID Module:	MiCard V2 HID Prox 2.01.05 (config)
Conversion Result: 18701 Code Remove First 0 Code Remove Last 0 Code Remove Last 0 Code Remove Result: 0 Code Remove Last 0	Last Read ID:	18701
Code Remove First Code Remove Last O Code Remove Last O Code remove Res	Conversion Result:	18701
Code Remove First Code Remove Last Code Comparison No. Code Code Comparison No. Code Code Code Code Code Code Code Code		
Code Remove Last 0 Code Length 0 Code Comparison No.1	Code Remove First	0
Code Length 0	Code Remove Last	0
Code Conversion No 1	Code Length	0
	Code Conversion No.1	None
		Save
Save		

The terms used and the possible settings of the configuration window are as follows:

Connected ID Module

Shows the ID Module connected, e.g. MiCard / miniMIND.

Last Read ID

Shows the last ID read by a card swipe.

Conversion Result

Shows the result of the last read ID when the configured code conversions are applied. This is the ID sent to the server for authentication.

Code Remove First

Specifies the number of characters to be removed from the start of the ID read before the code conversion takes place. For instance a value of 3 applied to A881C045 will result in 1C045.

Code Remove Last

Specifies the number of characters to be removed at the end of the ID read before the code conversion takes place. For instance a value of 3 applied to A881C045 will result in A881C.

Code Length

Specifies the code length applied after the code conversion. For instance a value of 6 applied to A881C045 will result in A881C0, whereas a value of 10 applied to A881C045 will result in 00A881C045.

FLOW		onfiguration
Connected ID Module:	MiCard V2 HID Prox 2.01.05 (config)	
Last Read ID:	A881C045	
Conversion Result:	A881C045	
•		
Code Remove First	0	
Code Remove Last	0	
Code Length	0	
Code Conversion No.1	Reverse HexBytes (45C08145)	
	None String Reverse (\$40(188A) Reverse Bircher in Sytes (158103A2) Reverse Bircher (\$40(188A) Her To Decimit (\$22707553) Convert to ASCII (10088011200405) Reverse Bircher (\$4501045)	



Specifies the code conversion that has to be applied to the ID read in a series of code conversions at step [N]. The results of the code conversions at step [N] are displayed

next to the name of the selected code conversion in the drop down list. If the result is empty "()", this code conversion can't be applied in the actual step (cf. screenshot above).

Connected ID Module:	MiCard V2 HID Prox 2.01.05 (config)
ast Read ID:	A881C045
Conversion Result:	A20381A2
Code Remove First	0
Code Remove Last	0
Code Length	0
Code Conversion No.1	Reverse Hex8ytes (45C08145)
Code Conversion No.2	Reverse Bitorder in Bytes (A20381A2)
Code Conversion No.3	None

After a code conversion step [N] has been saved by clicking the *Save* button the configuration page will be allowed to specify code conversion step [N+1] as shown in the screenshot above.

Next to the name of the *Connected ID Module* in the configuration page (MiCard) you can click on a link *(config)* which will bring up the page shown below.

ni <mark>FLOW</mark>		MEAP Configuration
Extended Card Format:		
Use extended Card Format	Set	
MiCard USB Reader Software File:	Durchsuchen.	
	Update	
	Back	

With uniFLOW Login Manager / MomClient (Secure/Public Printing Applet), from V2.1.2 onwards, updating the MiCard Firmware is possible via this configuration page. A Firmware Update File can be requested from our support department (Email: support@nt-ware.com) mailto:support@nt-ware.com).

The *Extended Card Format* option is explained in detail in chapter Upgrading to uniFLOW OM V4.1 or uniFLOW V5.0 from SSP (see "<u>Upgrading from SSP to uniFLOM</u> <u>OM V4.1 or uniFLOW V5.0</u>" on page <u>13</u>).

To upload the new firmware browse for the file and click on *Update*.

If the file is not a valid MiCard (V3) Firmware file, you will be presented with the following message:

FLOW	MEAP Configuration
Firmware update failed: Invalid file	

If a valid MiCard (V3) Firmware file is selected, the upload will start and you will see the upload progress via a progress bar.

ni <mark>flow</mark>		MEAP Configuration
Updateing MiCard Firmware. Plea	ase wait	

Once the upload is complete, the MiCard (V3) is automatically rebooted with the new Firmware. A device restart is not necessary.



If the update fails, the MiCard will start in a "Bootloader" mode that allows updating the Firmware again, but has no card reading functionality. Note, with a failed Firmware update, it can take a considerable amount of time before the reader is once again visible in uniFLOW.

2.1 Upgrading from SSP to uniFLOM OM V4.1 or uniFLOW V5.0

If you are upgrading from SSP to uniFLOW V4.1 or V5.0 and are using the MiCard, observe the following:

If you use some new Canon printing devices with MEAP, you have to enable the *Use extended Card Format* function for the new devices.

You'll find this option on the MEAP Configuration website. Therefore click on the *ID-Device* column on the *MEAP & miniMIND Status* page. In the pop-up window click on *config* - behind *Connected ID* Module.

The reason for this is that devices configured with SSP use the extended Card Format. You need to enable this setting in order to make the new machines compatible in an already set up - environment.



3

MiCard V3 Configuration on the uniFLOW Server

The MiCard V3 contactless card reader is available as MiCard V3 Multi, supporting different RFID frequencies and technologies.

The following chapter explains the global and device specific configuration of the MiCard V3 in uniFLOW. The configuration Multi has been explained in detail, in a separate sub-chapter.

3.1 Global MiCard V3 Configuration

With MiCard V3, it is possible to configure the MiCard contactless card reader right from the uniFLOW server. To do so, go to *Connections / MEAP & miniMIND (uniFLOW V5.x: Connections/Agents/Terminals/MiCard V3*, then open the *Global MiCard V3 Config.* tab *Multi*.

You can configure the MiCard V3 for a number of different contactless card types:

Multi for Legic cards

3.1.1 Configuration - General

uniFLOW			SERVER CONFIGURATION
Base Data	Agents / Terminals Agents / Terminals HIND & microMIND HEAP & miniMIND Default Behavior Hydrad Resources MiCard V2 Egges	Beeper	MiCard V2 factory default-
Connections Server Config. Module Config.	HD S MdB HTag B CMFP B NT-ware MoneyLoader B PC DayCon B IPC PayCon B ICS Money Loader B Netcard Money Loader		
		Save	

Here, you have the possibility to change the general options.

Beeper

This field allows you to set basic options for the card readers' beeper

-factory default- - restores the manufacturers' presets.

off - The beeper will not emit any audible signals when presenting a card. All other signals are still emitted.

on - The beeper never suppresses any audible signal.

3.1.2 Configuration - Multi

On this page options for the contactless card reader Multi can be configured.

The contactless card reader **Multi** offers four different card technologies, ISO 14443A, ISO 15693, Legic Prime and Inside contactless. However, the MiCard V3 only allows one ID or card technology to be read at the same time. This makes sense, as only one ID should be transmitted to the uniFLOW Server or RPS in order to identify the user.

In general a card carries only one technology. Therefore, and to have the highest compatibility, all possible card technologies are enabled by default.

However, some cards in the field contain more than one technology. In such cases disable all the technologies you do not want to use for reading out the ID. Otherwise, the MiCard V3 reader cannot read out the correct ID.

In addition to that, you can enter which Sector Number or Sector Type contains the user ID. In case you leave all fields empty on the Multi config page, the <UID> of the card will be read out and transmitted.

Enable ISO 14443A

-factory default- (Yes)

No

Yes

Enable ISO 15693

-factory default- (Yes)

No

Yes

Enable Legic Prime

-factory default- (Yes)

No

Yes

Enable Inside contactless

-factory default- (Yes)

No

Yes

Sector Number

Enter the sector number which contains the user ID.

Sector Type

Enter the sector type which contains the user ID.

Search String

Enter a string to search for, to find the sector containing the user ID.

Auto Logoff when Card gone

-factory default- (No)

No

Yes - If this parameter is set to Yes, the contactless card must lie on the card reader as long as the user is using the device. When the card is removed from the reader, the user is logged off automatically.

Data Length

This value defines the length of the data that has to be read from the Legic card. Enter a value between 0 and 255 (one Byte).

CRC Type

The *CRC Type* defines which kind of checksum is used on the Legic card. You can choose either *CRC 8Bit, CRC 16Bit* or *none*. The factory default value is *none*.

3.1.3 Device Specific MiCard V3 Configuration

If a MiCard V3 is attached to the machine, the *ID Device* column on the *MEAP* & *miniMIND Status* page contains a second icon as can be seen in the following screenshot.



By clicking on this second <a>[icon a window opens in which you can set up a specific MiCard V3 configuration.

The device specific parameters are the same as for the Global MiCard V3 Configuration (on page <u>14</u>). You can enable your device specific settings by changing the parameter **Use Specific MiCard V3 Config** to **Yes**. The device specific settings will become active by clicking the **Save** button. Now, the specific MiCard V3 configuration takes priority over the global MiCard V3 configuration.



It is very important that you enter each parameter which is necessary to read out the cards correctly. No default parameter will be taken over if a parameter field has not been filled out. This means, if you change the beeper settings for example, you also have to enter the Multi configuration, even if they are the same as in the Global MiCard V3 configuration. Summarized one can say that if you have already entered a global configuration, these settings will not be taken over for the device specific settings.

Index

G

I

В
Beep Status9
c
Configuration10
Configuration - General14
Configuration - Multi15
D
Device Specific MiCard V3 Configuration16
Disclaimer5
F

FCC and IC Compliance Note4

Global MiCard V3 Configuration.....14

imageRUNNER ADVANCE5

Installation of the MiCard V3 on the

L	
LED Status	9

Μ

MiCard V3 Configuration on the uniFLOW Server
MiCard V3 contactless card reader2

R

uirements2

S

Scope of supply	2
Supported Card Standards	4
Symbols	6
System Setup	4

U

Upgrading from SSP to uniFLOM OM V4.1 or	
uniFLOW V5.0	13

V

Versioning	3
------------	---



