



NuVision One-Card Configuration

Version 4.0

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GoPrint Systems, Inc.

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NuVision One-Card Configuration

Pre-installation requirements

Before attempting to configure you will need to determine the following items:

- 1) NuVision Server IP address or DNS name
- 2) Terminal (Device) Address (you may opt to have a single address for all devices or individual addresses for each device.) This must be an integer between 01 and 99.

Note: this is not a TCP/IP address but an internal NuVision component designed by NuVision for transaction tracking and authentication.

- 3) Determine the NuVision Account number. Account 1 is the Default. This is the Account where printing and copying funds will be deposited
- 4) Telnet into the NuVision server to ensure network connectivity exists

Example: 10.10.1.1 10109 (the required port used by NuVision is 10109)

Step 1- Configure the NuVision Connector

- 1) Open Control Center
- 2) Navigate to Payments – Payment Connectors



Select Add a Payment Connector



Click NuVision



Home > Payment Connectors

Edit NuVision Connector

Name

Ref No

The external accounting reference number for transactions posted to this

Server

Port

Crypto Key

Tenders

The Device Address and Transaction Type may be overridden on a per-PayPoint basis using the Properties screen's Financial tab.

Device Address

Default Transaction Type

Name - Enter a user-friendly name to help identify the connector

Reference Number – (Optional) the accounting reference number associates Transactions to this connector

Server - Enter the NuVision transaction server IP address or DNS name

Port - Enter default port used by NuVision – 10109

Crypto Key - Enter the NuVision crypto key: - fjeiormdfkerjerier43lsfeifeewwwf

Tenders

Terminal/Device Address - This must be an integer between 01 and 99. Its purpose is NuVision transaction tracking and authentication

Default Transaction Type - Enable from the available options. Most common is Declining.

Note: This will also need to be enabled at the Tender Overrides at the PayPoint.

Click **SAVE**

Tenders

The Device Address and Transaction Type may be overridden on a per-PayPoint basis using the Properties screen's Financial tab.

Device Address

Default Transaction Type

- Declining
- Debit Account 1
- Debit Account 2
- Debit Account 3
- Debit Account 4
- Debit Account 5
- Equivalence
- Charge
- Cash
- Response

Step 2 - Enable the NuVision Payment Method

- 1) Navigate to Accounts – Class Definitions – Default User Class

Check **NuVision**

Class Name	Default User Class		
Pay Methods Mark the Pay Methods that you want to allow for this class and assign names for the purses. The purse names will be shown to users when they are signed in and preparing to pay for print jobs.	Type	Purse Name	Credit
	<input type="checkbox"/> Quota	Quota	---
	<input type="checkbox"/> Allowance	Allowance	---
	<input type="checkbox"/> Value Card	Value Card	---
	<input type="checkbox"/> Cash/Coin	Cash/Coin	---
	<input checked="" type="checkbox"/> NuVision	NuVision Funds	---
	<input type="checkbox"/> NuVision Secondary	NuVision Secondary	---

- 2) Supply a user-friendly name under Purse Name. This name will be used to associate the users balance with the payment type at a Print Release Station or Web Client Popup.
- 3) Click **Save**

Step 3 - Enable the NuVision Payment at the PayPoint

Click the pencil icon to edit the PayPoint.



- 1) Click the Financial tab
- 2) Check Default User Class – NuVision
- 3) Select the NuVision connector from the Payment Connector drop down menu
- 4) Leave the defaults for Add Value Option and Add Value Instructions.
- 5) Partial Payments Option **Change to Not Allow**
- 6) Tender Overrides
Enter transaction type and Transaction Number for each PayStation and Web Client.

General Financial Prompts Messages

ACL Permissions

Allowed Purses
 When presented to end-users, purses are sorted by their Sort Order numeric value. Purses with the same sort values are sorted by the purse name.

Default User Class - NuVision Funds

Sort Order:





Payment Connector:

Add Value Option:

Add Value Instructions:

Partial Payment Option:

▼ Tender Overrides

 300-312-27925PS	Type: <input type="text" value="Declining"/>	Address: <input type="text" value="2401"/>
 400-421-27933PS	Type: <input type="text" value="Declining"/>	Address: <input type="text" value="2402"/>
 800-838-27935PS	Type: <input type="text" value="Declining"/>	Address: <input type="text" value="2404"/>
 800-853-27934	Type: <input type="text" value="Declining"/>	Address: <input type="text" value="2403"/>

Important: if only one Address is used then it still must be entered.

Tender Overrides provides the ability to segregate NuVision transactions by physical location based on the location of each Print Release Station and card swipes conducted at that location. This is preferred method to help record accurate transaction reports for departmental comparison and distribution.

To enable, an individual Device Address must first be configured within NuVision for each Print Release Station and then entered in the Address field corresponding to the desired Print Release Station and Account Type.

Step 4 – Print Release Station Configuration

Setting up the payment mode

- 1) Select the PayPoint where NuVision is configured
- 2) **Mode:** change to PayStation

The screenshot shows the 'General' configuration tab with the following fields:

- Station Name:** 300-312-27925PS
- PayPoint:** North Campus (indicated by a red arrow)
- Copy Settings:** Bradenton, Lakewood Ranch
- Description:** North Campus (highlighted), Venice
- Branding:** Monument Valley
- Mode:** PayStation (indicated by a red arrow)
- Initial View:** User Names
- Authentication Type:** None

- 3) Card Reader Purse Configuration

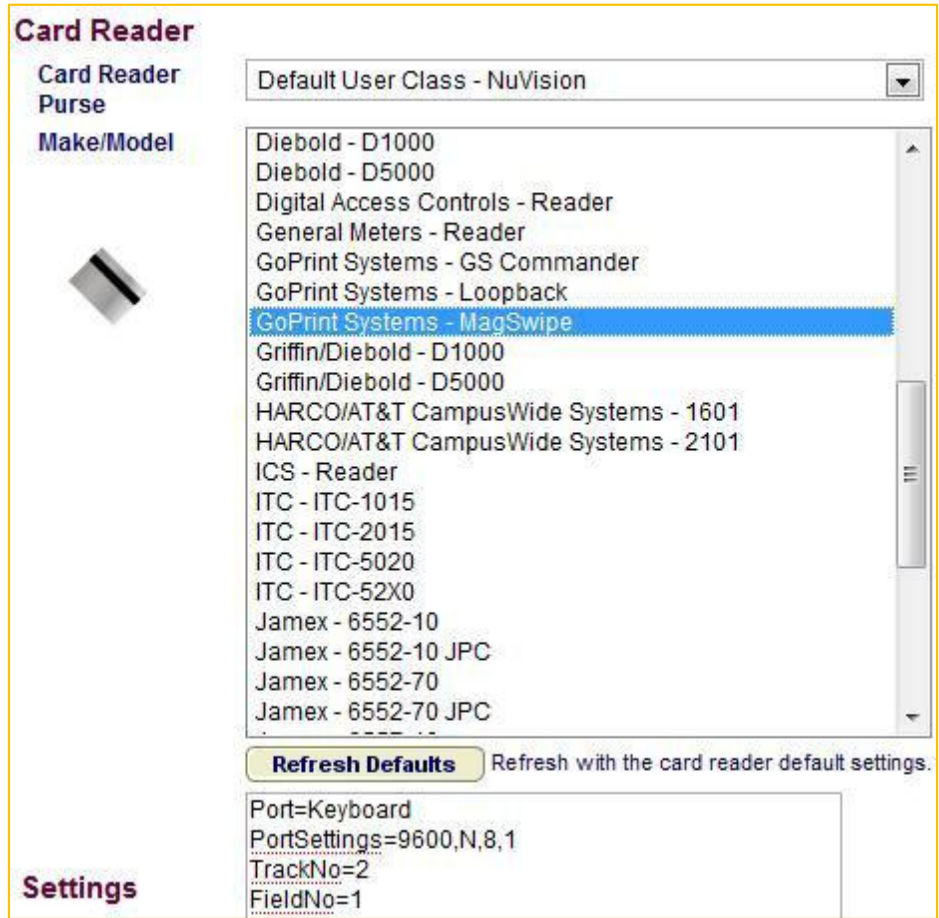
From the Card Reader tab select the NuVision purse, (created in Step 2) from the Card Reader Purse drop down menu.

The screenshot shows the 'PayStation' configuration window with the 'Card Reader' tab selected. The 'Card Reader Purse' dropdown menu is open, showing the following options:

- Choose a Purse
- Choose a Purse
- Default User Class - NuVision (highlighted)
- ACDI - CopyMate Express
- ACDI - EX-0000

From the list of Card Reader drivers, select the GoPrint Systems – MagSwipe

Click SAVE!



You have successfully configured GoPrint for the NuVision One-Card system

Troubleshooting

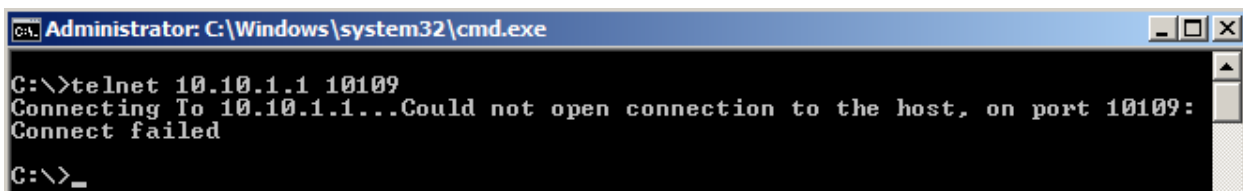
NuVision connections and card swipes

Successfully network connection to the NuVision transaction server requires that the designated port used by NuVision is set to allow incoming traffic from the GoPrint server over the designated port.

This can be tested by telneting into the NuVision server over the designated port.

Example: 10.10.1.1 10109

An unsuccessful connection is displayed in the following screenshot:



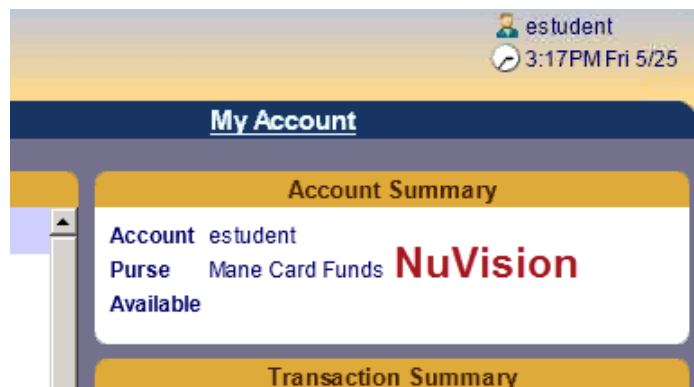
Contact your NuVision administrator and network administrator to ensure incoming traffic is open for the IP address of the GoPrint server over the designated port from the NuVision server and any firewall between the two systems.

The NuVision available funds aren't displayed at the PayStation or Web Client Account Summary section.

Cause: GoPrint is sending the incorrect transaction type(Declining, Account 1 etc...)

Solution: Make sure the correct type is enabled at the NuVision Payment Connector, or The Tender Overrides fields are populated at the PayPoint – Tender Overrides drop down menu. (See page 3)

"Available" funds displays an empty field



Successful NuVision card swipe transaction

The Print Release Station remote.log (found under the GS4\logs directory) displays a successful NuVision connection and balance return as follows:

```
Card Polling Thread:transerver.KeyboardWedgeHandler]Detected possible card swipe ';00012341100?'
[Card Polling Thread:transerver.MagSwipeCardReader ] Parsed card swipe data ';00012341100?' using track 2 field 0 and found '00012341100'
[Card Polling Thread:views.QuotaAccountView      ] Updating balance display: balance=$16.55, credit=$0.00
[AWT-EventQueue-0:views.JobConfirmationView     ] action: Confirm
[AWT-EventQueue-0:actions.PaymentAction        ] Processing payment -- Account: 400-421-
27933PS Card #: 00012341100 PayMethod: NuVision Total $: 0.10 Userless: true
INFO [AWT-EventQueue-0:actions.PaymentAction    ] Payment result: Successful Payment Release count: 1
```

Successful NuVision LDAP Authentication at Web Client

User logs in to the web client and is authenticated.

Authenticated user estudent with internal authentication.
User estudent at address 10.25.241.90 has logged in.

The card number is detected as an LDAP attribute and GoPrint sends a transaction request (.10)

```
Sending Declining/Transaction/Regular Transaction request for card L00551478 and amount 0.10
2012-05-25 13:21:09,917 DEBUG [WebServer-3:nuvision.NuVisionConnection ] >
3332 3400 0061 5430 004C 3030 3535 3134 3738 0000 0000 0000 0000 0000 0030 2E31 324..aT0.L00551478.....0.1
3000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0.....2012-05-25
```

NuVision returns the users balance (9.30) and GoPrint collects the transaction amount

```
3332 3400 0041 2130 324C 3030 3535 3134 3738 0000 0000 0000 0000 0000 0030 2E31 324..A!02L00551478.....0.1
3000 0000 4261 6C61 6E63 6520 2439 2E33 3000 0000 0000 0000 0000 0000 A833 0000 0...Balance $9.30.....3..
1010 1010 1010 1010 1010 1010 1010 1010 1010 .....2012-05-25 13:21:10,33
```

```
Declining/Transaction/Regular Transaction -- Pass
Account: L00551478 Amount: 0.10 Ctl #: 13224 Message: Balance $9.30
[WebServer-3:nuvision.NuVisionTranServerConnector] Received Response/Pass/Regular Transaction response with Ctl
#13224 and message 'Balance $9.30'
Collected 0.10 via NuVision tran #13224 for purse NuVision and card #L00551478
```

GoPrint assigns a transaction number and posts it in the transaction tables

Posting transaction #158901 consisting of 2 ledger entries [debits=0.10, credits=0.10]
Paying for 1 print job at PayPoint Collier Library location Collier Library Web. Total cost is 0.10 and collected is 0.10
Posting transaction #158902 consisting of 2 ledger entries [debits=0.10, credits=0.10]

Job is released

```
2012-05-25 13:21:10,370 DEBUG [Thread-16:agent.AgentPrintJobManager ] Agent prepared to release 1 job(s)
2012-05-25 13:21:10,370 DEBUG [Thread-16:service.AgentService ] +++ Set q278 job 30 to Release
2012-05-25 13:21:10,370 INFO [Thread-16:service.AgentService ] Releasing q278 job 30 with position 0
2012-05-25 13:21:10,385 DEBUG [QMon-q278:queue.QueueMonitor ] Queue: CollierPrinterB q278 Job: 30 - Status
notification, Status: 0x0 State: Release
2012-05-25 13:21:10,385 DEBUG [QMon-q278:queue.QueueMonitor ] Queue: CollierPrinterB q278 Job: 30 - Status
notification, Status: 0x0 State: Release
2012-05-25 13:21:10,385 DEBUG [WebServer-3:printing.PrintManager ] 1 job released to print server GoPrint
```