Introduction

Purpose

This manual provides instructions for connecting hardware and configuring a third-party (non-Passport) Point-of-Sale (POS) application to communicate with the FlexPay™ 6.

This document is intended to address configuration related to FlexPay 6 only and is provided for the convenience of the installer and does not imply any liability for the third-party application. Changes to the third-party application will not be reflected in this document. Refer to the third-party documentation for the latest information.

Intended Audience

The audience for this document are the Gilbarco®-Authorized Service Contractors (ASCs), Customer-Specific Contractors (CSCs), and Self-Service Contractors (SSCs).

Table of Contents

Related Documents

Document Number	Title	GOLD℠ Library
MDE-5686	FlexPay 6 with Omnia V06.00 Programming and Service Manual	FlexPay 6
MDE-5690	FlexPay 6 Start-Up and Service Manual	FlexPay 6

Note: Visit docs.gilbarco.com for retrofit kit installation instructions. Search for the retrofit kit (for example, "RF-00060-03-R06"), or search "Invenco" to view all Invenco by GVR installation documents.

Abbreviations and Acronyms

Term	Description
ADA	American Disability Act
ASC	Authorized Service Contractor
CSC	Customer-Specific Contractor
CRIND®	Card Reader in Dispenser
DEF	Diesel Exhaust Fluid (Automotive)
DCR	Dispenser Card Reader
EMV	Europay®, MasterCard®, and Visa®
LAN	Local Area Network
LED	Light Emitting Diode
MNSP	Managed Network Service Provider
NEC®	National Electrical Code
NFPA	National Fire Protection Association
NIC	Network Interface Card
OPT	Outdoor Payment Terminal
OSHA	Occupational Safety and Health Administration
POS	Point of Sale
SSC	Self-Service Contractor
STP	Submersible Turbine Pump

Important Safety Information

Notes: 1) Save this Important Safety Information section in a readily accessible location.

2) Although DEF is non-flammable, Diesel is flammable. Therefore, for DEF cabinets that are attached to Diesel dispensers, follow all the notes in this section that pertain to flammable fuels.

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions
You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

Emergency Total Electrical Shut-Off
The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

⚠ WARNING


The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.
You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access
Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

Evacuating, Barricading and Shutting Off
Any procedure that requires access to the pump/dispenser or STPs requires the following actions:

- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual
Read, understand, and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call the Gilbarco Technical Assistance Center (TAC) at 1-800-743-7501. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations
Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Health Administration (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts
Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol


This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words
These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:


DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.


WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.


CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.
CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage.

Working With Fuels and Electrical Energy

Prevent Explosions and Fires
Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

DEF is non-flammable. Therefore, explosion and fire safety warnings do not apply to DEF lines.

No Open Fire

Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

No Sparks - No Smoking

Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/ Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth

⚠ WARNING

In the event of inclement weather, including snow, ice, or flooding that makes driving conditions dangerous, please avoid servicing units. Always use available door stops to secure upper doors against unwanted/unexpected movement, especially during high winds. If necessary, reschedule service to avoid damage to the equipment. Weather may change unexpectedly; be aware of local weather conditions. During service, if conditions develop making service unsafe, close the unit(s) and proceed to a safe location.

⚠ WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

⚠ WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Gilbarco Veeder-Root encourages the recycling of our products. Some products contain electronics, batteries, or other materials that may require special management practices depending on your location. Please refer to your local, state, or country regulations for these requirements.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

⚠ WARNING

Gasoline/DEF ingested may cause unconsciousness and burns to internal organs. Do not induce vomiting. Keep airway open.
Oxygen may be needed at scene. Seek medical advice immediately.

⚠ WARNING

DEF generates ammonia gas at higher temperatures. When opening enclosed panels, allow the unit to air out to avoid breathing vapors. If respiratory difficulties develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

⚠ WARNING

Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.
Keep airway open.
Seek medical advice immediately.

⚠ WARNING

Gasoline/DEF spilled in eyes may cause burns to eye tissue.
Irrigate eyes with water for approximately 15 minutes.Seek medical advice immediately.

⚠ WARNING

Gasoline/DEF spilled on skin may cause burns.
Wash area thoroughly with clear water.
Seek medical advice immediately.

⚠ WARNING

DEF is mildly corrosive. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and safety showers are close to the work location. Seek medical advice/recommended treatment if DEF spills into eyes.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

Lockout/Tagout

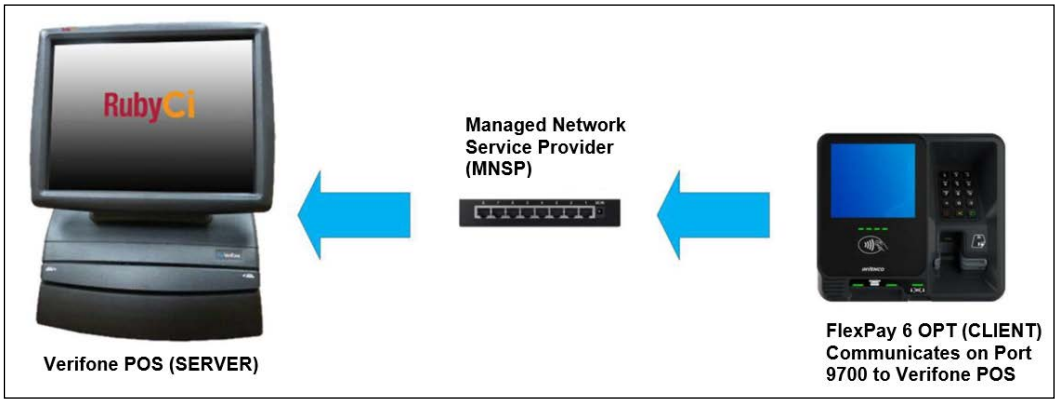
Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical, or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

FlexPay 6 Hardware Connectivity with Third-party POS (EMV Connection)

Communication Flow

The FlexPay 6 Outdoor Payment Terminals (OPTs) communication to the Verifone Commander/Ruby CI is an outbound connection. In this communication flow, FlexPay 6 OPT (CLIENT) communicates to Verifone POS (SERVER) on port 9700.

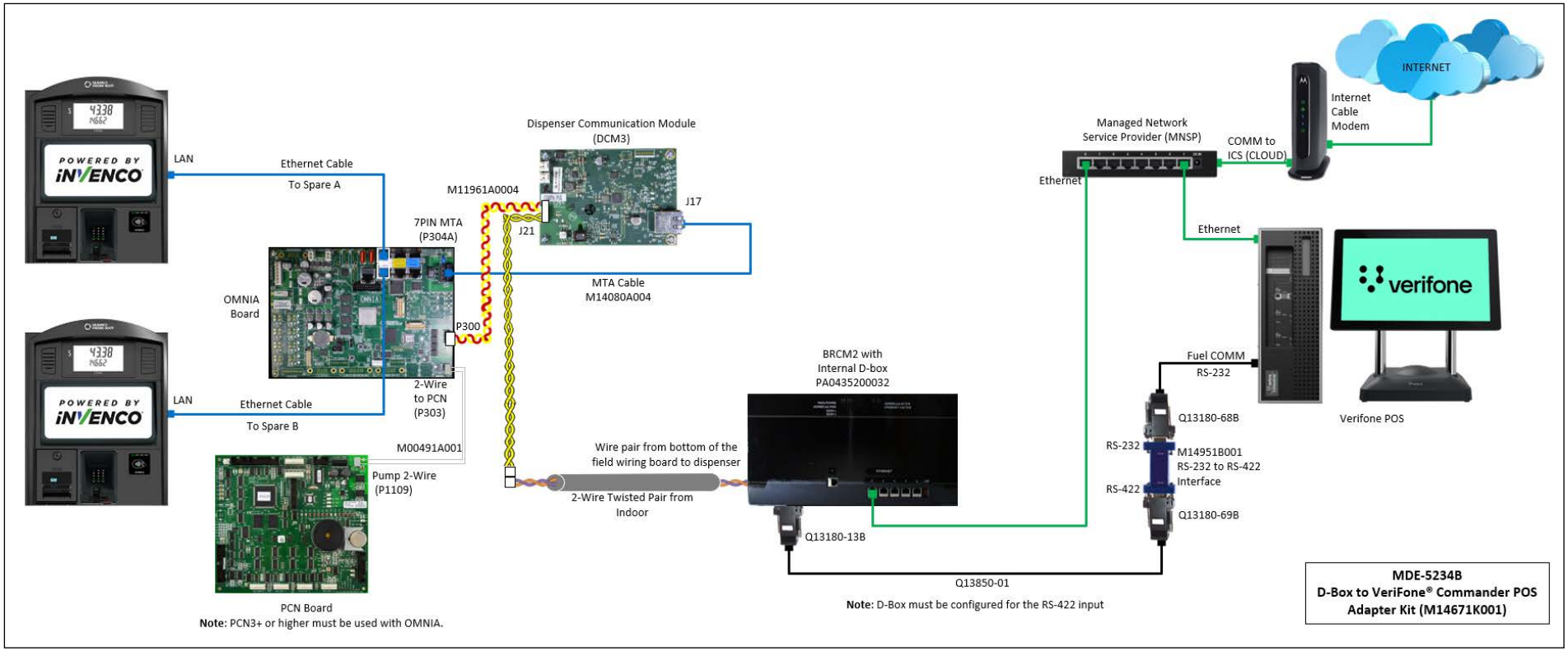
Figure 1: Communication Flow



EMV Hardware Connectivity

The Verifone POS communicates with the EMV Dispenser Card Reader (DCR) comm via the Ethernet port that is connected to the Managed Network Service Provider (MNSP). The MNSP must open and assign a port on the managed router for the commander to send the EMV data to the card reader. Refer to *MDE-5686 FlexPay 6 with Omnia V06.00 Programming and Service Manual* for more details on dispenser and backroom connectivity for BRCM2 and Omnia/DCM3.

Figure 2: BRCM2 with Internal D-Box



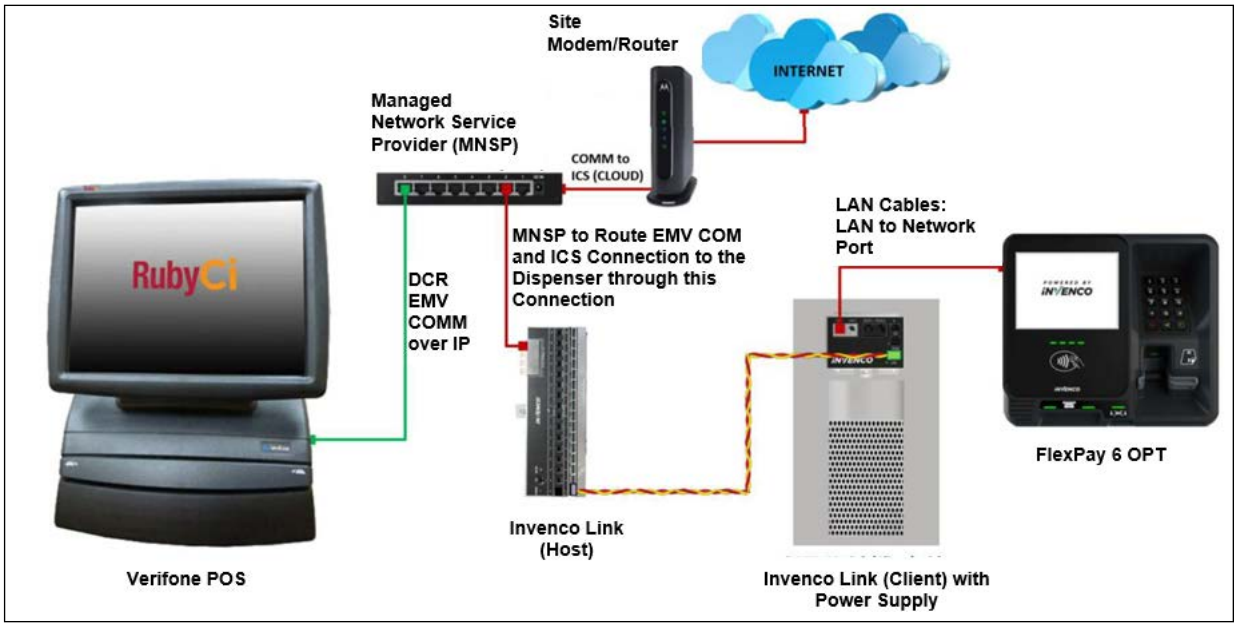
Dispenser and Backroom Connectivity

Type of Pump/Conduit	Default Configuration	Omnia Kit	BRCM2
Invenco RFKs for GVR Dispensers (US)	BRCM2 In Dispenser: Omnia/DCM3 kit In Backroom: BRCM2	Required (if not existing in dispenser) - For M1-15 RFKs: Add Manually - For A2-09 and future RFKS: Included by default	If customer is using Passport POS, that requires a D-Box, use PA0435200032. If a customer is using a POS with a third party pump control box, use PA0435200032.
Invenco RFKs for non-GVR Dispensers	Invenco Link In Dispenser: RF00033 In Backroom: RF00041	N/A	N/A
Encore 700 dispensers w/ factory installed Invenco OPTs (North America)	BRCM2 In Dispenser: Omnia/DCM3 kit In Backroom: BRCM2	Included by default	If customer is using Passport POS, that requires a D-Box, use PA0435200032. If a customer is using a POS with a third party pump control box, use PA0435200032.

Notes:

1. *BRCM2 with D-box board function: PA0435200032. This is used with Passport, Allied, or other systems that do not directly drive the pump.*
2. *BRCM2 without D-box board function: PA0435200002. This is used with POS systems that have an existing current loop connection per pump (FCI or NCR with Panther).*
3. *Omnia/DCM3 Kit: M19633K001*
4. *The above matrix is the default configuration, other connectivity can be supported: CAT5/6, wireless, etc.*

Figure 3: EMV Hardware Connectivity

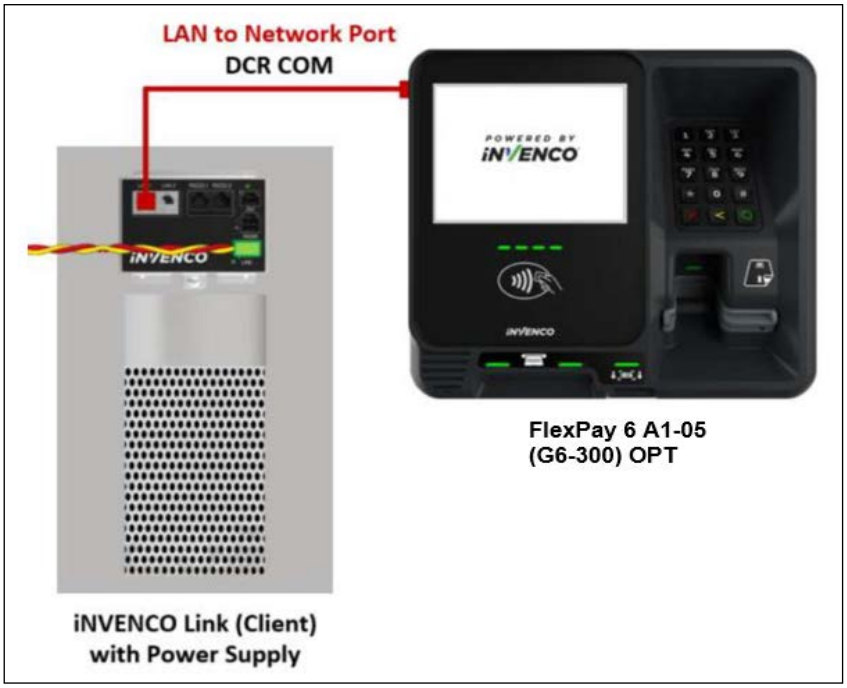


Connecting Local Area Network (LAN) Cable to the Card Reader (In Dispenser)

The Verifone POS communicates on an Emulation protocol. The FlexPay 6 does not have a free RS232 connection. To get the communication from the Commander, connect the LAN cable from the Dispenser Link (Client) to the LAN port on the back of the OPT (see Figure 4 on page 8).

- On the link, power should be connected and the power Light Emitting Diode (LED) must be ON.
- A LAN cable must be connected to the LAN port on the back of the card reader.
- The two wire for the dispenser must be connected to the green connector on the connection marked LINE.

Figure 4: Connecting LAN Cable to the Card Reader



Contacting MNSP

IMPORTANT INFORMATION

The EMV communication from the Verifone Commander is routed via the MNSP. There are several different MNSP brands that have been certified to be used with Verifone for outdoor EMV communication. If the site has a MNSP then they will need to be contacted prior to the upgrade for the outdoor EMV, so that they may update the MNSP with correct template. If the site does not have a Verifone approved MNSP, then the site will have to contact the MNSP provider or major oil brand to have the router upgraded prior to the installation of the outdoor EMV.

MNSP Network	Phone Number
Acumera	512-687-7401
ControlScan	800-393-3246
Cybera®	866-429-2372 OPT 1
Mako	844-807-0307

MNSP Network	Phone Number
Omega	610-639-7996
SageNet	866-480-2263
Hughes®	866-350-8786

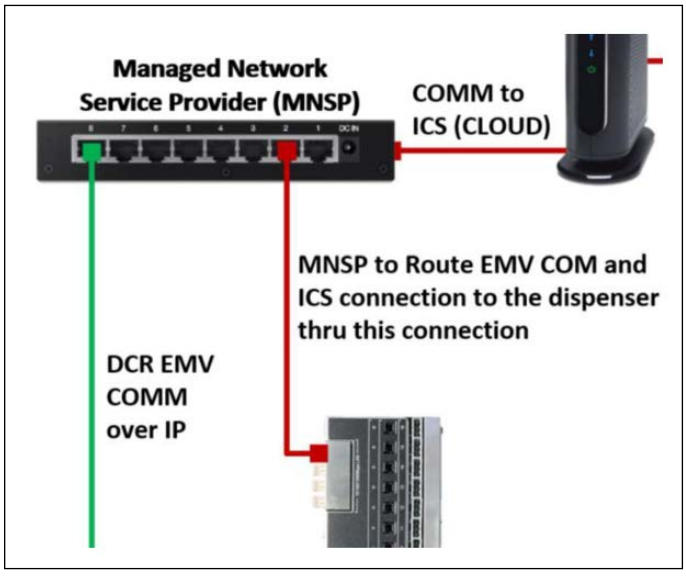
Ethernet Connection from Commander to Invenco Link (Indoor)

The Invenco Link enables you to upgrade without digging up the ground or replacing any wire. Designed for high reliability environments, it comes in two configurations to support a wide range of network topologies: the L1- 100 node (Dispenser Link) with two Ethernet ports, and the L3-100 hub (Indoor Link) with four Ethernet ports, which is able to network 16 L1-100 nodes.

- An Ethernet cable needs to be connected from the assigned port on the MNSP to the LAN connection on the Invenco Link (Host).

Note: Ensure to set any LAN configurations needed for the outdoor EMV on the POS according to their network guidelines.

Figure 5: Ethernet Connection from Commander to Invenco Link (Indoor)



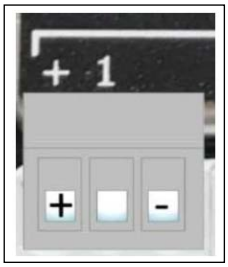
To connect the Ethernet to the Invenco Link, proceed as follows:

1 Install the Invenco Link (Host) on the wall near the DCR/CRIND two wires coming from the dispensers (see Figure 6).

Figure 6: Invenco Link (Host)

2 Connect the correct polarity of the dispenser 2-wire twisted pair to the gray connector of the Invenco Link. The positive (+) and the negative (-) are on either end of the connector. The middle connection must not be used.

Figure 7: Connector Polarities



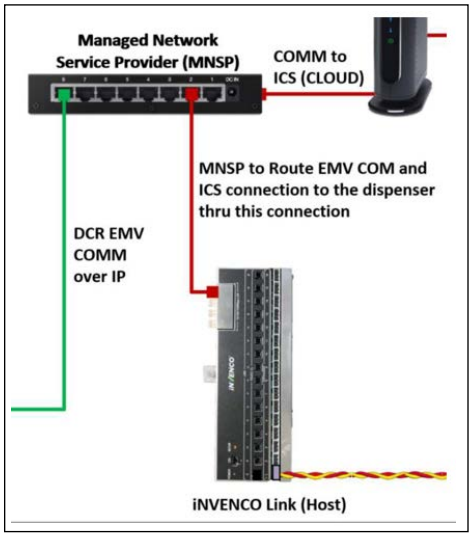
3 Contact the site MNSP.

a Verify that the router has been configured for Connexus/Wayne® Outdoor EMV.

b Identify the port on the router to be used for the Outdoor EMV Ethernet® connection.

4 Connect the Ethernet cable from the MNSP Outdoor EMV port to the one of the open ports on the Invenco Link.

Figure 8: Ethernet Cable Connection



5 Connect the power to the Converter and the Link.

Network Table Download

Table download might be required from the network with Outdoor EMV enabled per Verifone requirements.

LAN Configuration

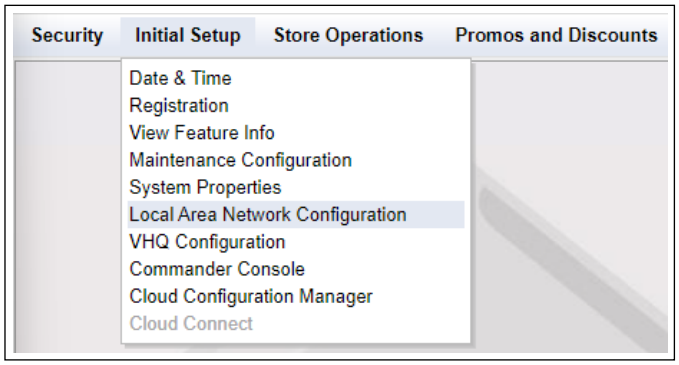
IMPORTANT INFORMATION
Before changing any of the DCR settings in the Verifone Configuration Client, call the MNSP to configure the router for the Invenco EMV and to open PORT 9700 to communicate between Verifone Commander and the Invenco OPT. Confirm with the site network that Outdoor EMV (OEMV) is enabled as well as debit if the site accepts outdoor debit.

Some sites and MNSP require that the default route be enabled on the Isolated Payment Network Interface Card (NIC). Also, a network route needs to be added to the device specific routes for the POS to communicate to the dispenser. Always confirm the site network settings with the site and the MNSP.

To configure the LAN connection, proceed as follows:

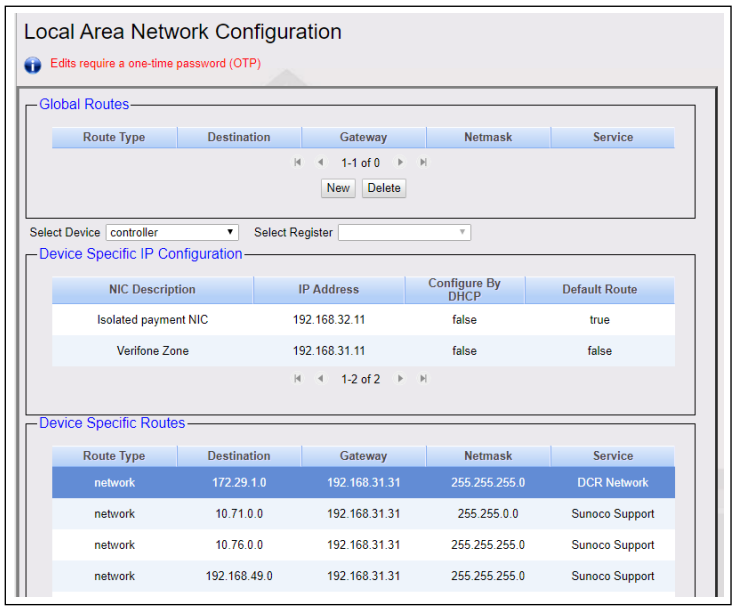
1 Select **Initial Setup > Local Area Network Configuration.**

Figure 9: LAN Configuration



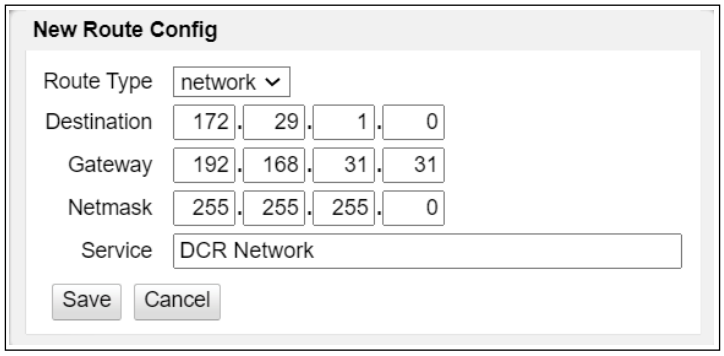
2 The Local Area Network configuration screen opens (refer to Figure 10).

Figure 10: LAN Network Configuration



3 Select **New** from the Device Specific Routes and add the following DCR Network Route.

Figure 11: New Route Configuration



DCR Configuration in Verifone POS (EMV Connection)

Commander Configuration Client Settings

To Log in to the Commander Configuration Client and configure the POS, proceed as follows:

1 Go to **Tools > Managed Modules > Current Configuration**.

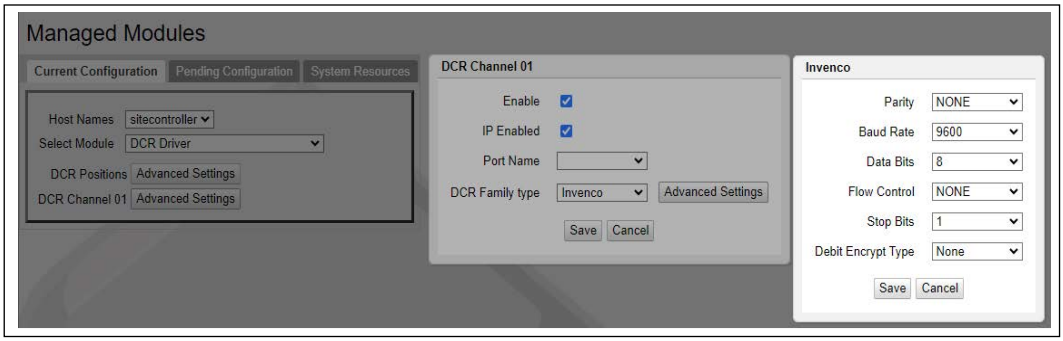
a Select **Host Names** as **sitecontroller** and **Select Module** as **DCR Driver** from the drop-down menu.

b In the **DCR Channel 01,** select the **Advanced Settings** option. From the **Advanced Settings** option, make sure that the following options are selected:

- **Enable**: CHECKED
- **IP Enabled**: CHECKED
- **Port Name**: [BLANK]
- **DCR Family type**: Invenco or Wayne

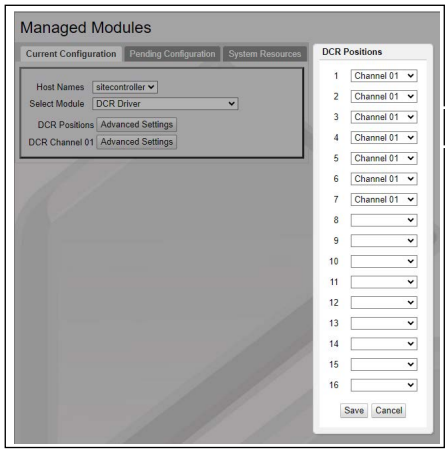
Note: This is left blank because the EMV DCR communication is via the Ethernet. There will be no LEDs blinking on the Commander for the DCR communication.

Figure 12: DCR Channel 01 Module



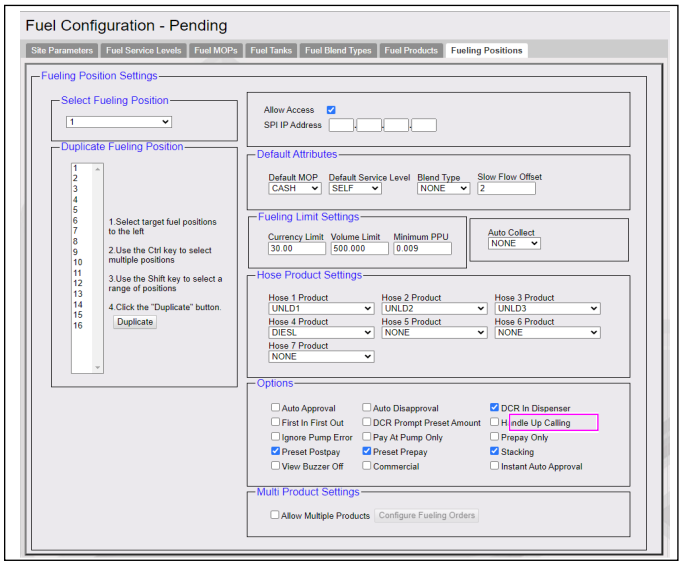
2 In the **DCR Positions** option, select **Advanced Settings**, assign correct channels to all the DCR, and click **Save**.

Figure 13: DCR Positions



3 Go to **Forecourt > Fuel > Fuel Configuration - Pending**. Ensure that the **DCR In Dispenser** option is selected.

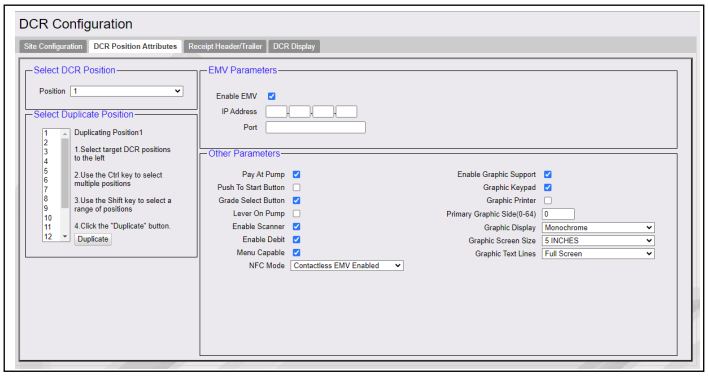
Figure 14: Fuel Configuration - Pending



4 Go to **Forecourt > DCR Configuration > DCR Position Attributes** and select the following (see Figure 15 on page 16):

Attribute	Settings
Enable EMV	Must be Selected
Pay At Pump	Must be Selected
Enable Scanner	Can be Selected (optional)
Enable Debit	Must be Selected
Enable RFID	Must be Selected (if site supports contactless payment)
Menu Capable	Must be Selected
NFC Mode	Must be set to Contactless EMV Enabled
Enable Graphic Support	Must be Selected
Graphic Keypad	Must be Selected
Primary Graphic Side (0-64)	Set to 0
Graphic Display	Set to Monochrome
Graphic Screen Size	Set to 5-inches
Graphic Text Lines	Set to Full Screen

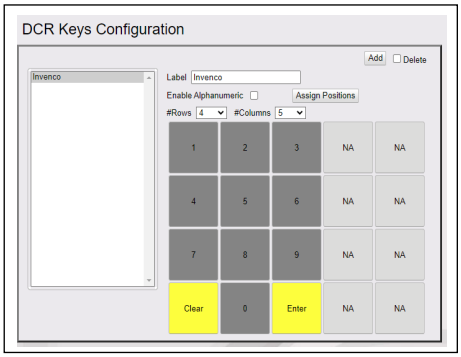
Figure 15: DCR Configuration - DCR Position Attributes



5 Go to **Forecourt > DCR Keys** and proceed as follows:

- Add a Keypad
- Select G6-300 from the Label option
- Create a 4X5 keypad
- Assign the keys as shown in the Figure 16.
- Assign positions to call the card readers in the dispensers

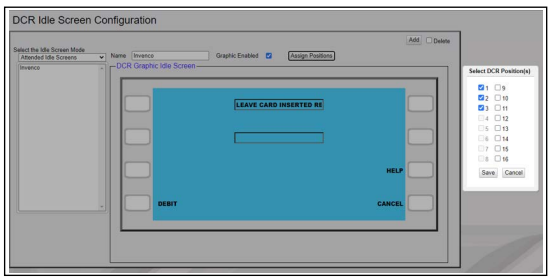
Figure 16: DCR Keys Configuration



6 Go to **Forecourt > DCR Idle Screen Configuration** and set the DCR Graphic Idle Screen as per the requirement.

Notes: 1) These can be set with Graphic Enabled checkbox as selected or not selected.
2) There must be at least one button set on the screen (i.e., HELP).
3) The Graphic Enabled checkbox must be selected.
4) Figure 17 shows setting up the DCR Graphic Idle screen as per site requirements.

Figure 17: DCR Idle Screen Configuration

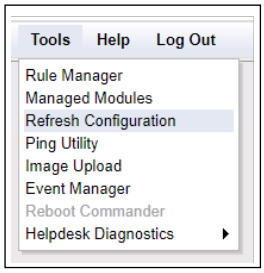


Initialization of DCR

To initialize a DCR, proceed as follows:

1 Go to **Tools > Refresh Configuration**.

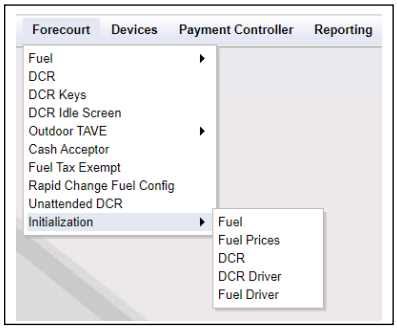
Figure 18: Refresh Configuration



2 Go to **Forecourt > Initialization** and initialize the following options in the order listed below.

- Fuel
- Fuel Driver
- DCR Driver
- DCR > All (If necessary)

Figure 19: DCR Initialization



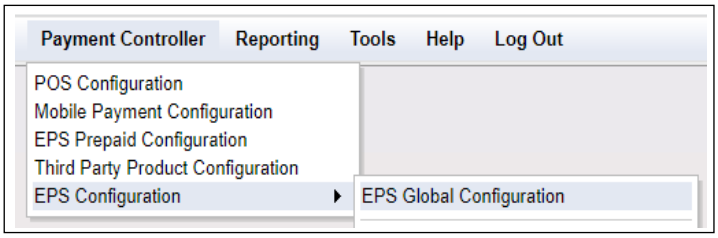
Outdoor EMV Configuration and Initialization

The EMV needs to be enabled for outdoor and then an initialization needs to be sent to all OPTs.

To configure and initialize the outdoor EMV, proceed as follows:

1 Go to **Payment Controller > EPS Configuration > EPS Global Configuration**.

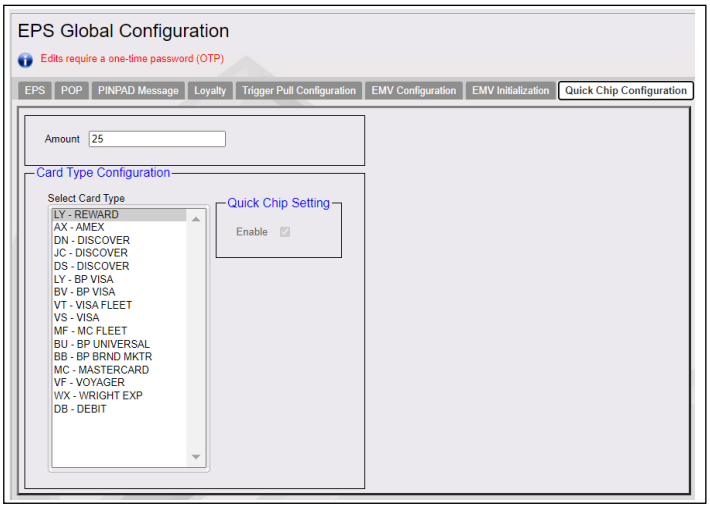
Figure 20: Payment Controller Window



2 Go to **EPS Global Configuration > Quick Chip Configuration**.

Note: Quick Chip Settings must be checked or checked and grayed out for all the Card Type Configuration. Outdoor EMV will not work if it is NOT checked.

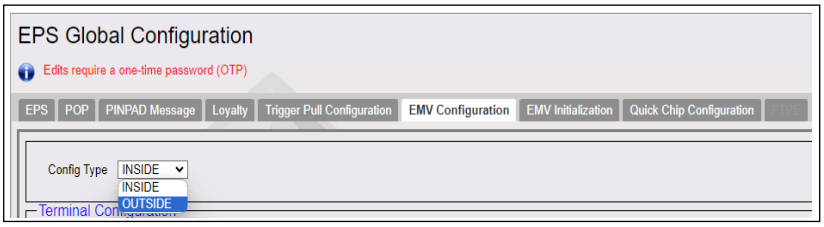
Figure 21: Quick Chip Configuration



3 In the **EPS Global Configuration**, select **EMV Configuration**.

a In the **Config Type**, select **OUTSIDE** option from the drop-down list.

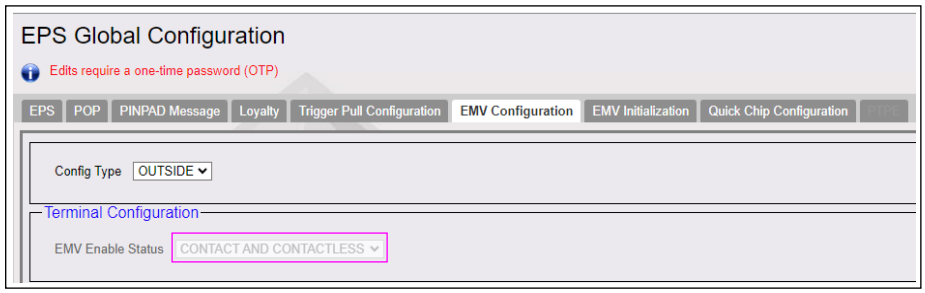
Figure 22: EMV Configuration- Config Type



b In the **Terminal Configuration**, select the **EMV Enable Status** option as **CONTACT and CONTACTLESS** from the drop-down menu.

Note: If the EMV Enable Status is not set for Contact and Contactless, then verify with the credit host that the PDL is configured for Contact and Contactless.

Figure 23: EMV Configuration- EMV Enable Status



4 From the **EPS Global Configuration**, select **EMV Initialization**.

a From the **EMV Initialization** menu, go to **Initialize POP** option.

b Select OPT from the **Available POP List** and click **ADD**, to add it to the **Selected POP List**.

- 001- PIN Pad
- 101- OPT

*Note: Use **ADD ALL** if there are too many dispenser POP to move one at a time. Once all of them have been moved to SELECTED POP List, remove the PIN Pad POP from the Selected POP List.*

Figure 24: EMV Initialization

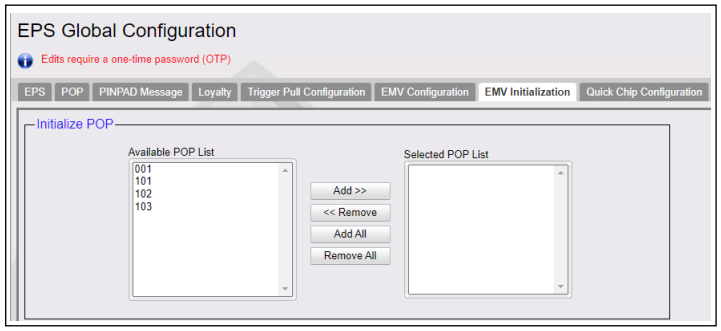
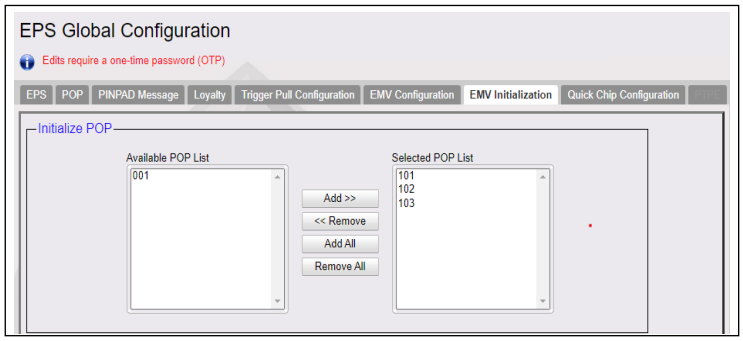


Figure 25: EMV Initialization-Initialize POP

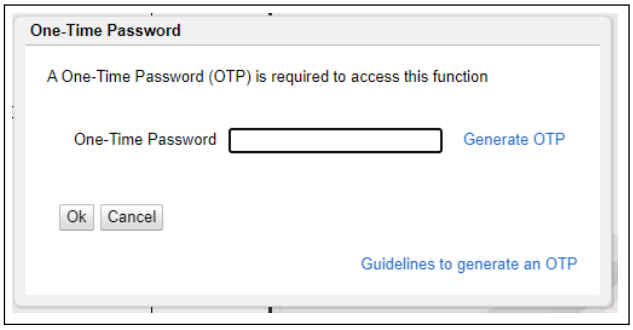


5 After all the POP that needs the EMV Initialization has been moved to the Selected POP List, Select **Save**.

6 A One Time Password will be needed to save the changes.

Note: This will be displayed on the two-digit numeric display on the side of the Ruby CI or the front of the commander. The two digits with the period is the first two digits and without the period is the last two (i.e., X.X XX).

Figure 26: One-Time Password



Appendix A: ARCO (Marathon) with American Disability Act (ADA)

Main Terminal Configuration

Use the Service App to set the Main Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for ARCO sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	129.6.15.28
Network	Manual
Terminal IP Address	IP Scheme for the site (i.e. 172.29.1.xxx)
Terminal Netmask	255.255.255.0
Terminal Network Gateway	172.29.1.1
DNS1	Check with MNSP for the DNS1 (i.e. 8.8.8.8)
DNS2	Check with MNSP for the DNS2 (i.e. 8.8.4.4)

ADA Terminal Configuration

The Invenco ADA solution provides access to the OPT at a required height for ADA compliance. Use the Service App to set the ADA Terminal Configuration. Always check with the MNSP for proper network settings. After all the network settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for the ADA terminal at ARCO sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (Same as Main OTP)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Auxilliary
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	129.6.15.28
Network	Manual
Terminal IP Address	IP Scheme for the site (i.e. 172.29.1.141...142)
Terminal Netmask	255.255.255.0
Terminal Network Gateway	Gateway for the site (i.e. 172.29.1.1)
DNS1	8.8.8.8
DNS2	8.8.4.4

Figure 27: ADA Hardware Connectivity

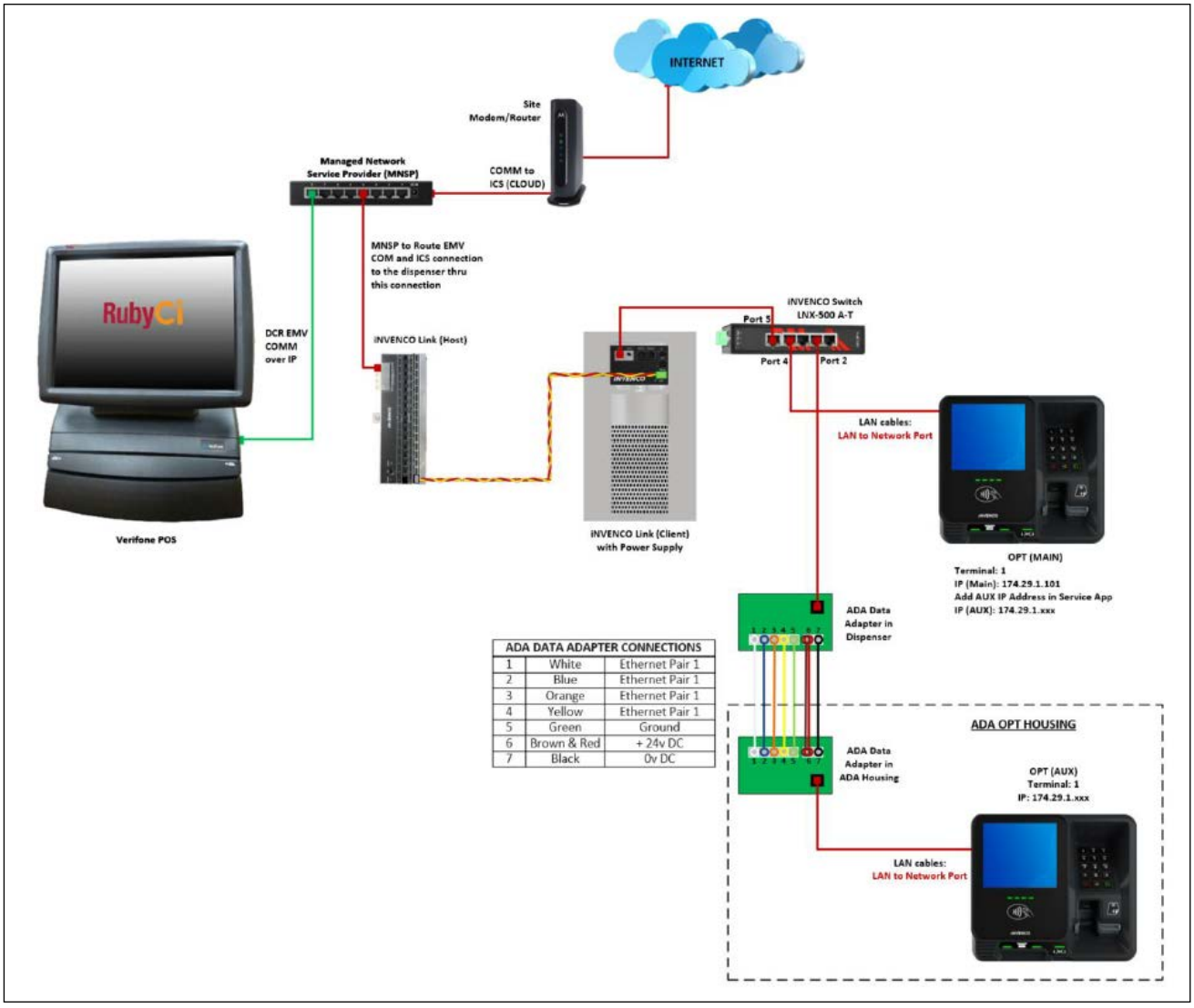


Figure 28: ADA Power Connectivity

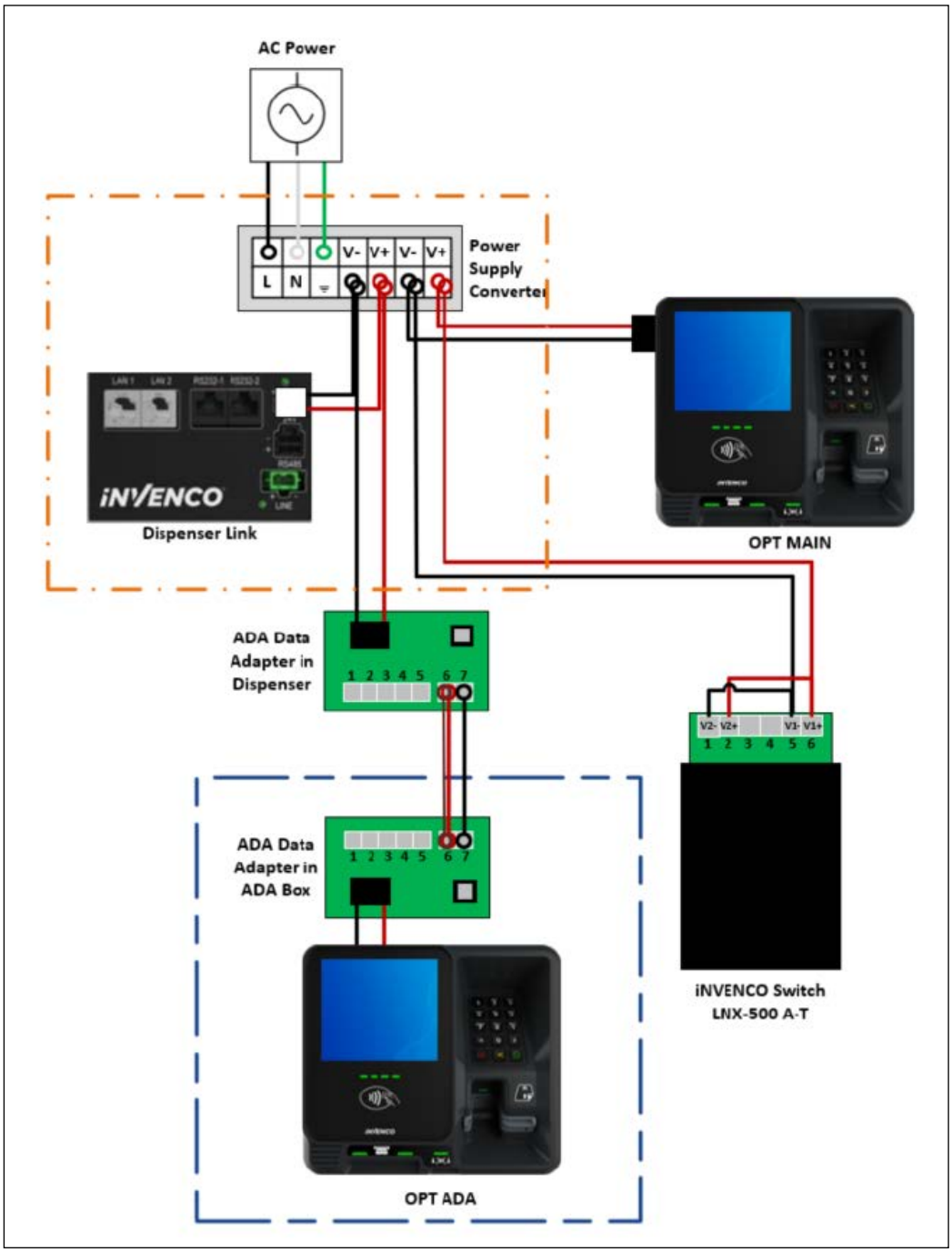
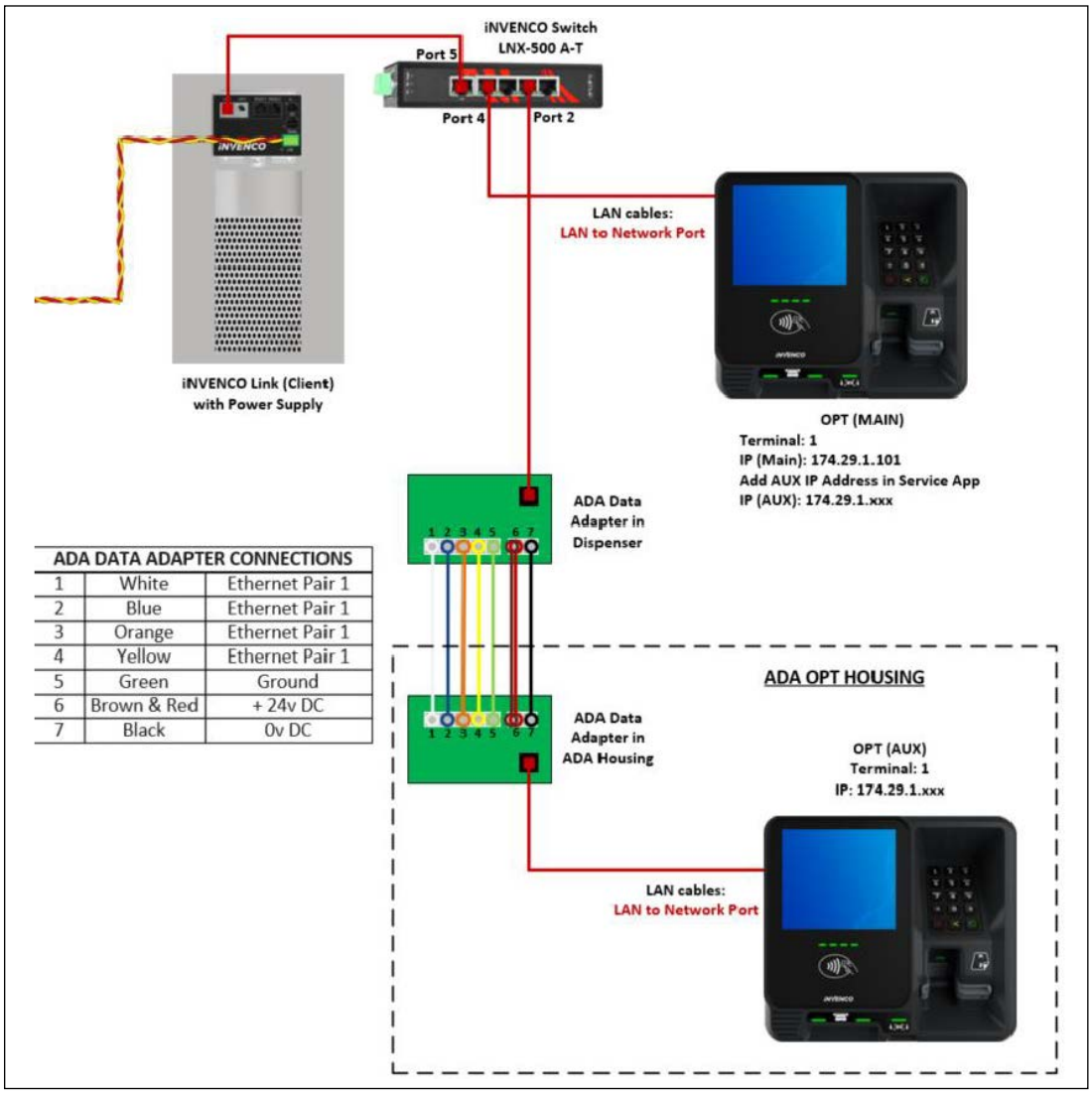


Figure 29: ADA Communication Connectivity



Network LAN Connection

- LAN cable from the Dispenser LINK LAN port to Port 5 on the Invenco Switch.
- LAN cable from Port 4 of the Invenco Switch to LAN port on the Main OPT.
- LAN cable from Port 2 of the Invenco Switch to LAN port on the ADA data adapter in dispenser.
- LAN cable from the ADA Data Adapter in ADA Housing to LAN port on the back of the Auxiliary (ADA) OPT.

Appendix B: BP®

Use the Service App to set the Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for BP sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.9.30
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	Use sites if they have one
Network	Manual
Terminal IP Address	192.168.8.10x
Terminal Netmask	255.255.255.0
Terminal Network Gateway	192.168.8.1
DNS1	192.168.8.1
DNS2	8.8.8.8

Appendix C: Sunoco®

Use the Service App to set the Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for Sunoco sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	Use sites if they have one
Network	Manual
Terminal IP Address	Check with MNSP for site IP requirements. (i.e. 172.29.xxx.xxx)
Terminal Netmask	255.255.255.0
Terminal Network Gateway	Check with MNSP for the site Gateway (i.e. 172.29.xxx.xxx)
DNS1	Check with MNSP for the DNS1 (i.e. 8.8.8.8)
DNS2	Check with MNSP for the DNS2 (i.e. 8.8.4.4)

Appendix D: NBS®

Use the Service App to set the Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for NBS sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	Use sites if they have one
Network	Manual
Terminal IP Address	172.29.1.10x
Terminal Netmask	255.255.255.0
Terminal Network Gateway	172.29.1.1
DNS1	172.29.1.1
DNS2	8.8.8.8

Appendix E: Generic (CITGO®, Clark, Exxon®, Gulf, P66®, Unbranded)

Use the Service App to set the Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for customers using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	Use sites if they have one
Network	Manual
Terminal IP Address	Check with MNSP for site IP requirements (i.e.172.29.xxx.xxx)
Terminal Netmask	255.255.255.0
Terminal Network Gateway	Check with MNSP for the site Gateway (i.e.172.29.xxx.xxx)
DNS1	Check with MNSP for the DNS1 (i.e. 8.8.8.8)
DNS2	Check with MNSP for the DNS2 (i.e. 8.8.4.4)

Appendix F: Shell®

Use the Service App to set the Terminal Configuration. Always check with the MNSP for proper network settings. After all the Network Settings have been set, exit the Service App and reboot the unit. Refer to the following OPT configurations for Shell sites using a third-party POS.

Attribute	Configuration
	Initial Setup
Terminal ID	DCR number (i.e. 1, 2, 3, 4, …)
Reboot Time	03:15 AM - Default (Set the reboot time per sites requirement)
Use Printer Driver: (Auto)	Select **Next**
Date Entry	Current date
Time Entry	Current time
Time Zone	Current time zone
Terminal Rank	Main (Select **Next**)
	Network Configurations
Controller Address	192.168.31.11
Controller Port	9700
Configuration Service IP Address	Press the red **X** on keypad to skip
Configuration Service Port	Press the red **X** on keypad to skip
Syslog IP Address	Press the red **X** on keypad to skip
Syslog Port	Press the red **X** on keypad to skip
Syslog Mode	Press the red **X** on keypad to skip
NTP Server IP Address	Use sites if they have one
Network	Manual
Terminal IP Address	172.29.1.10x
Terminal Netmask	255.255.255.0
Terminal Network Gateway	172.29.1.1
DNS1	172.29.1.1
DNS2	8.8.8.8

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7300 West Friendly Avenue · Post Office Box 22087
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Phone (336) 547-5000 · http://www.gilbarco.com · Printed in the U.S.A.
MDE-5699D FlexPay™ 6 Hardware Connectivity with Third-party POS (EMV Connection) · January 2025