GASBOY

nOrCU Passport® PRIME Authorization Server (PAS) Setup and User Manual

MDE-5861A

Computer Programs and Documentation

Federal Communications Commission (FCC) Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier: OMNIA M16183

Responsible Party – U.S. Contact Information

Gilbarco Veeder-Root
7300 West Friendly Avenue
Greensboro, North Carolina, USA
27410-6200
1-336-547-5000

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interferences that may cause undesired operation.

Approval

Gilbarco is an ISO 9001:2008 registered company.

Underwriters Laboratories (UL):

UL File#	Products listed with UL
MH1941	All Gilbarco pumps and dispensers that bear the UL listing mark.
MH8467	Transac System 1000 and PAM 1000
E105106	Dell DHM Minitower
E165027	G-SITE and Passport Systems

California Air Resources Board (CARB):

Executive Order #	Product
G-70-52-AM	Balance Vapor Recovery
G-70-150-AE	VaporVac

National Conference of Weights and Measures (NCWM) - Certificate of Conformance (CoC):

Gilbarco pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #
02-019	Encore	Nxx	02-036	Legacy	Jxxx
02-020	Eclipse	Exx	02-037	G-SITE Printer (Epson)	PA0307
02-025	Meter - C Series	PA024NC10		G-SITE Distribution Box	PA0306
	Meter - C Series	PA024TC10		G-SITE Keyboard	PA0304
02-029	CRIND	—		G-SITE Mini Tower	PA0301
02-030	TS-1000 Console	—		G-SITE Monitor	PA0303
	TS-1000 Controller	PA0241		G-SITE Printer (Citizen)	PA0308
	Distribution Box	PA0242	02-038	C+ Meter	T19976
	Meter - EC Series	PA024EC10	02-039	Passport	PA0324
	VaporVac Kits	CV	02-040	Ecometer	T20453
			05-001	Titan	KXXY Series

Trademarks

Non-registered trademarks

Applause™ Media System	G-CAT™	MPD™	Surge Management System™
CIM™	Gilbert™	Optimum Series™	Tank Monitor™
C-PAM™	G-SITE® Link™	PAM 1000™	TCR™
Dimension™	G-SITE® Lite™	PAM 5000™	Titan™
Ecometer™	G-SITE™	PAM™	The Advantage™ Series
ECR™	Highline™	Passport™	Trimline
EMC™	Horizon™	SMART CRIND™	Ultra-Hi™
Eclipse™	InfoScreen™	SMART Meter™	ValueLine™
e-CRIND™	MultiLine™	SmartPad™	
FlexPay™	Making Things Better™	Super-Hi™	

Registered trademarks

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Performer®
Transac®
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VaporVac®

Service mark

GOLD℠

Additional U.S. and foreign trademarks pending.
All product names, logos, and brands are the property of their respective owners and are for identification purposes only.
Use of these names, logos, and brands does not imply endorsement.

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Table of Contents

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1 – Introduction

Purpose

This document describes the setup process of the nOrCU PRIME Passport® Authorization Server (GVR P/N PA0416000001 and Orpak P/N 800941060).

Description

nOrCU PRIME Passport Authorization Server (PAS) provides an interface between the Passport Point of Sales (POS), the Federal Communications Commission (FCC) System, and Head Office (HO) secure server, granting advanced centralized authorization capabilities in both online and offline modes.

It contains the Orpak Communication Unit (nOrCU PRIME, see Figure 1-1), a complete interface module with its own embedded operating system. The unit consists of an embedded hardware platform with a solid-state flash hard disk, Real Time Clock (RTC) with backup, along with surge suppressors for transient, and noise immunity.

The nOrCU PRIME features two separate and isolated networks (TCP/IP over Ethernet). The second network is intended for external remote communication [HO/Energy Knowledge Operating System (EKOS)]. This network is protected by Secured Socket Layer (SSL) security.

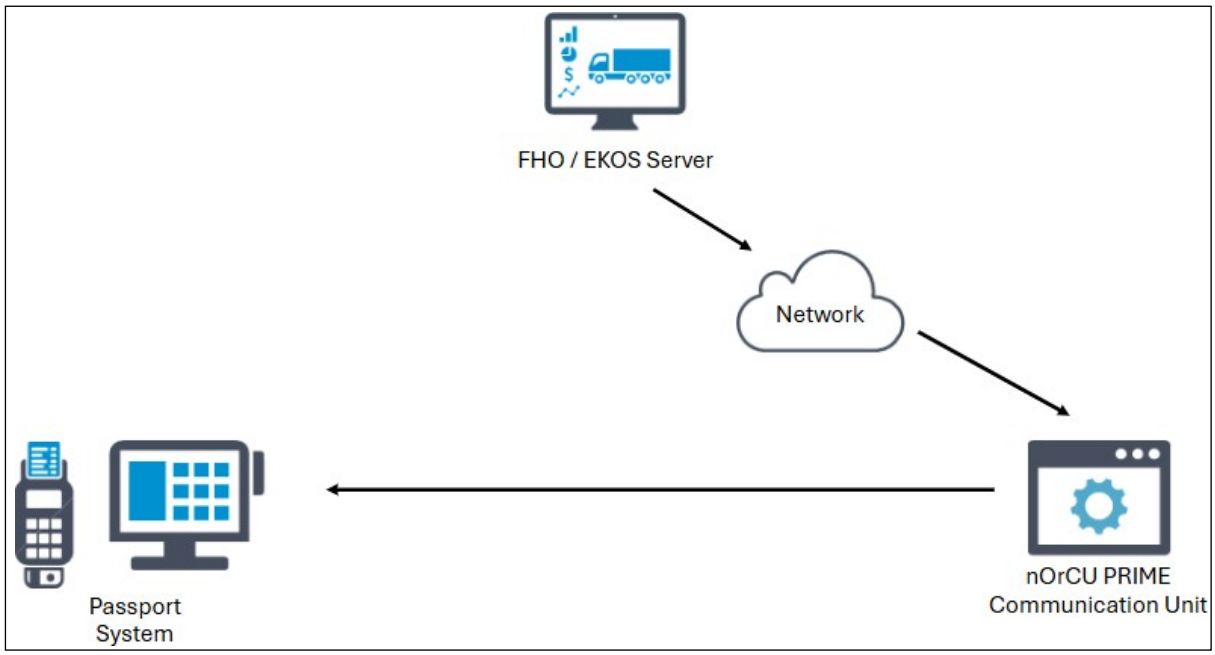
The nOrCU PRIME includes a built-in server for web access.

Figure 1-1: nOrCU PRIME - General View

System Architecture

Figure 1-2 shows a basic diagram of the nOrCU PRIME Authorization Server system architecture.

Figure 1-2: FHO/EKOS Server - General System Architecture



Related Documents

Document No	Title	GOLD℠ Library
MDE-4603	Passport Auxiliary Network Hardware Installation and Software Module Manual	Passport
MDE-4821	Fleet Head Office System Installation and User's Manual	Gasboy Fleet PLUS System
MDE-5671	Passport Manager Workstation and Point of Sale System Reference Manual	Passport

Abbreviations and Acronyms

Abbreviation	Definition
EDH	Enhanced Dispenser Hub
EKOS	Energy Knowledge Operating System
FCC	Federal Communications Commission
FHO	Fleet Head Office
FTP	File Transfer Protocol
HO	Head Office
ISO	International Standards Organization
LAN	Local Area Network
LED	Light Emitting Diode
NEC®	National Electrical Code
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
PAS	Passport Authorization Server
PCI	Peripheral Component Interconnect
POS	Point of Sales
PPU	Price Per Unit
RTC	Real Time Clock
SSL	Secured Socket Layer
TCP	Transmission Control Protocol
UPS	Uninterruptible Power Supply

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2 – 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 a Gasboy Authorized Service Contractor or call the Gasboy Support Center at 1-800-444-5529. 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 fluid 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

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

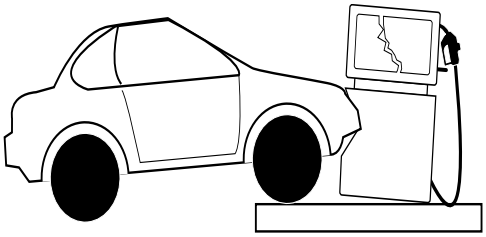
Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical, or other energy, 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.

Hazards and Actions

WARNING

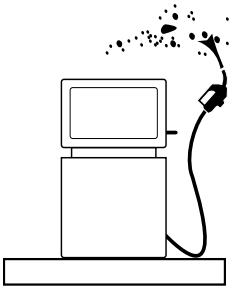
Spilled fuels, accidents involving pumps/dispensers, or uncontrolled fuel flow create a serious hazard.
Fire or explosion may result, causing serious injury or death.
Follow established emergency procedures.
DEF is non-flammable. However it can create a slip hazard. Clean up spills promptly.

The following actions are recommended regarding these hazards:



Collision of a Vehicle with Unit

Fire at Island



Fuel Spill

- Do not go near a fuel spill or allow anyone else in the area.
- Use station EMERGENCY CUTOFF immediately. Turn off all system circuit breakers to the island(s).
- Do not use console E-STOP, ALL STOP, and PUMP STOP to shut off power. These keys do not remove AC power and do not always stop product flow.
- Take precautions to avoid igniting fuel. Do not allow starting of vehicles in the area. Do not allow open flames, smoking or power tools in the area.
- Do not expose yourself to hazardous conditions such as fire, spilled fuel or exposed wiring.
- Call emergency numbers.

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3 – nOrCU Technical Specifications

The following details the physical, electrical, and environmental specifications of the nOrCU (see Table 3-1).

Table 3-1: nOrCU Technical Specifications

	Parameter	Value
Physical	Dimensions (H x W x D)	50 x 200 x 120 mm
	Weight	~ 700g
	Connectors	• RS-232: by harness • Ethernet: Molex RJ-45 (2x) • Power Input: Molex 5569-04 (1x)
Electrical	Supply Voltage	Normal operation: 15-24V_{DC} (Nominal), 12W
CPU	Main Processor	• Intel® Atom™ E3826, Dual Core, 1M Cache, 1.46GHz, 7W • BGA 1170 packaging technology • 22nm process technology • Intel® Atom™ E3845, Quad Core, 2M Cache, 1.91GHz, 10W (optional)
	Memory	• RAM 2GB Bundle DDR3L • RAM 4GB Bundle DDR3L (optional) • Storage eMMC 16GB • Storage eMMC 64GB (optional)
	Operating System	Embedded Linux Real Time OS
Environmental Conditions	Temperature Range	Operating: -30ºC to 70ºC
		Storage: -30ºC to 70ºC
Communication and Peripherals	Wired Interfaces	• 2 x Intel® I210 Peripheral Component Interconnect (PCI) Express Gigabit Ethernet controllers • Integrated 10/100/1000 transceiver • Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
	RS-232 Interface #1	RS-232 – 4 wires TXD, RXD, RTS, CTS Harness P/N 819141040
	Real Time Clock Device	RTC Accuracy - 100 PPM. Battery backup life 5 years

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4 – Hardware and Software Requirements

This section provides information on integrating the PRIME PAS to an existing Gilbarco Passport POS system. The addition of the PAS system will allow the use of proprietary (club) cards by customers at the fuel island to access fuel and particular merchandise at the POS.

Table 4-1 lists the hardware required for installing the PAS systems.

Table 4-1: Hardware Requirement for PAS

Item	Kit Number	Description	Part Number
Equipment	PA0416000001	PAS Orpak Controller - nORCU PRIME	819241060
		Power Supply for nORCU	811341000
		Power Cable	819302950
Passport Equipment	N/A	EDH	N/A
		Serial-to-LAN Cable	M09747B010
		Fleet Head Office (FHO) PC/EKOS	N/A

Table 4-2 lists the software versions utilized by the PAS system.

Table 4-2: Software Requirement for PAS

Software	Version
PAS	V5.1.4.3 or later
HO360	V7.100.52.1 or later
Service Pack	Up to 25

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5 – Setting Up the Fuel Site

To set up the fuel site, follow the steps given in the below sections:

Connecting PAS Unit

The PAS unit contains the processor and software that enables the FHO to communicate to the PAS system and POS unit that allows proprietary or club cards to be authorized at the fuel site.

Figure 5-1: PAS Unit

Location

The PAS should be located in an office environment and installed within four feet of the Enhanced Dispenser Hub (EDH). The PAS power supply must be connected to the POS system Uninterruptible Power Supply (UPS) power conditioner. Ensure that the PAS unit is secured and not able to be inadvertently moved, so that the cables remain intact.

The PAS unit should be located in a well serviceable area where the LED is easily visible.

Figure 5-2: PAS Cable Connections

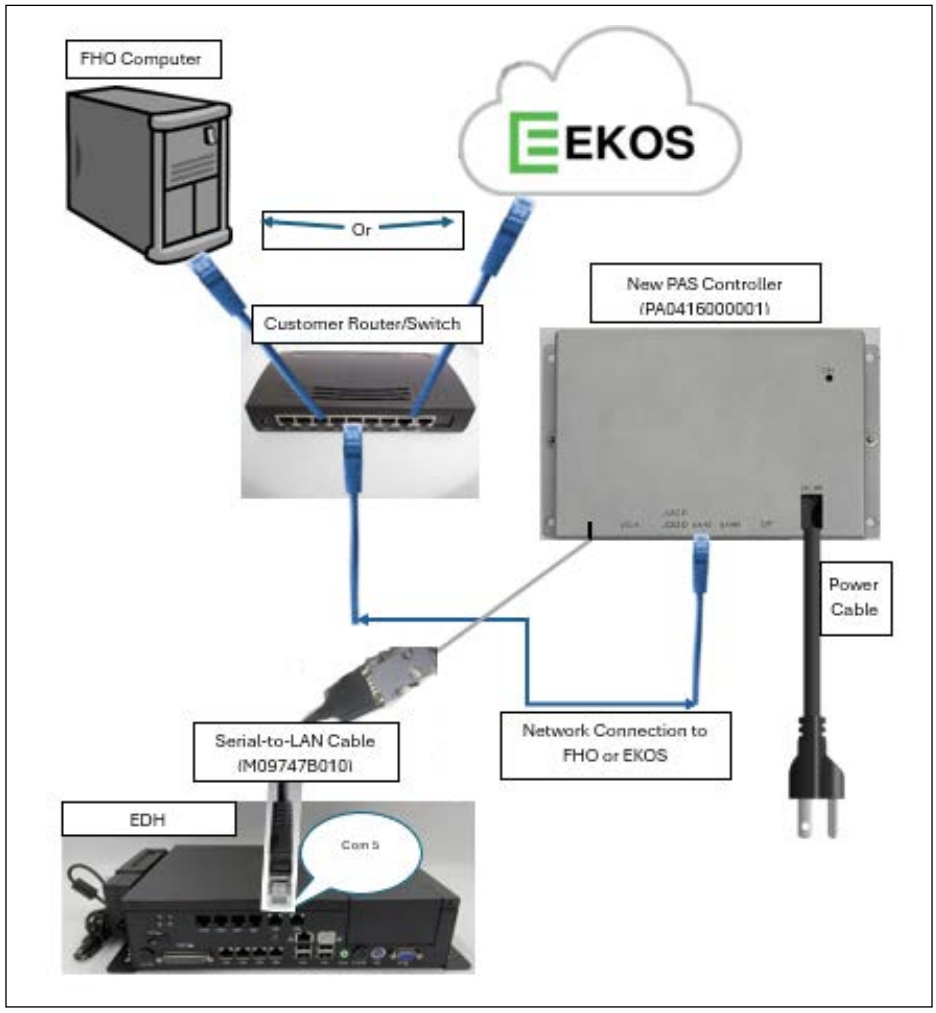
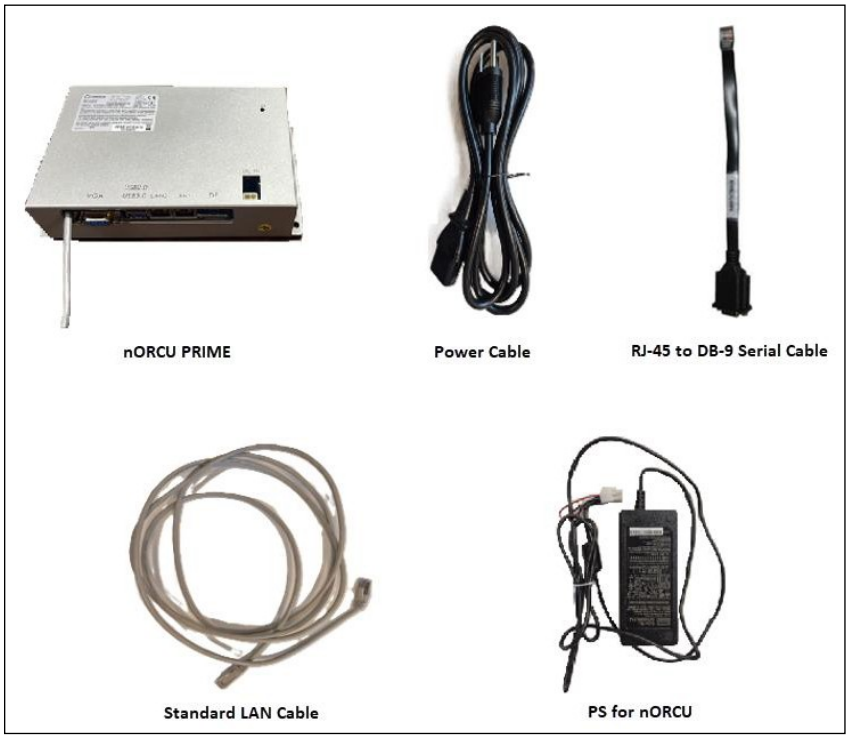


Figure 5-3: Cables



Installing the PAS Unit

To install the PAS unit, proceed as follows:

1 Install the PAS unit as shown in Figure 5-2 on page 5-2, while ensuring to check the following:

a The PAS unit is secured to a flat surface. Suggested mounting technique is to use at least one wood or sheet metal screw depending on the surface of each side of the unit (secure after PAS is configured).

b Ensure that the PAS unit is no more than four feet from the EDH unit.

c Ensure that the PAS unit is located in a properly ventilated and serviceable area.

2 Locate the cables and make proper connections to the PAS unit from the power supply, EDH, and FHO LAN connection as shown in Figure 5-1 on page 5-1 and Figure 5-3.

a Insert the plastic connector from the power supply to the PAS power socket labeled Power. Do not plug into the power conditioner or dedicated AC outlet currently.

b Connect the female end of the serial cable to the 9-pin side of the 9-pin to RJ-45 dongle for the EDH.

3 Locate the RJ-45 end of the M09747B010 cable and insert it into the COM 5 port of EDH unit.
Note: It is not recommended to run with pumps on pump loop ports.

4 Insert the local LAN cable into the LAN 2 port of the PAS unit and connect the other to the customer's LAN jack, router, or directly into the WAN port of their FHO/EKOS server, if located on site.

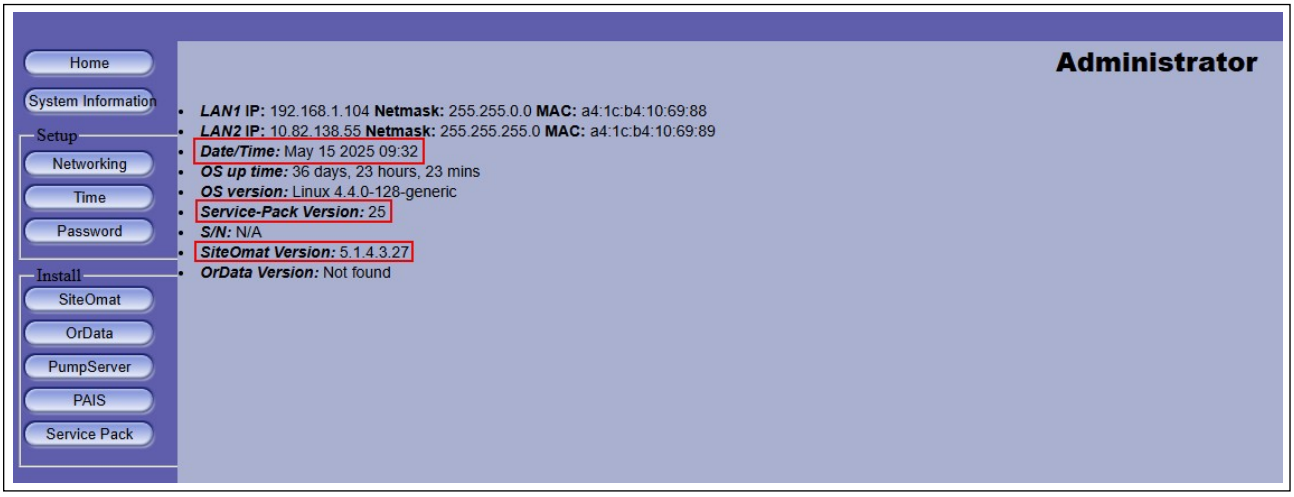
5 Apply power to the PAS unit by plugging the power supply into the power conditioner or dedicated outlet and observe that the LEDs are lit. Ensure that the EDH is powered up.

Configuring the PAS Unit

Before proceeding, ensure that the following is configured on the Administrator and Setup screens:

Administrator Screen (https://192.168.1.104:8090)
- Validate and update date and time.
- Service Pack version should be 25.
- SiteOmat version should be 5.1.4.3 or later.

Figure 5-4: Administrator Screen



To configure the PAS unit, proceed as follows:

1 Verify and upgrade the software in the PAS controller, if required.

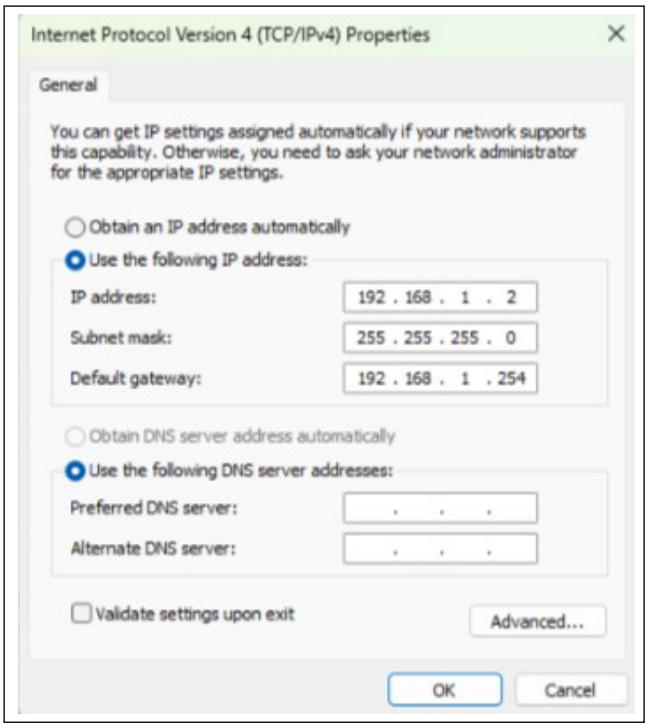
2 Obtain the following site information from the customer:
- Network IP address for LAN 2, subnet mask, and gateway
- Station description and code

3 Use a laptop and an Ethernet cable to connect LAN 1 of the PAS unit.

Figure 5-5: PAS Unit

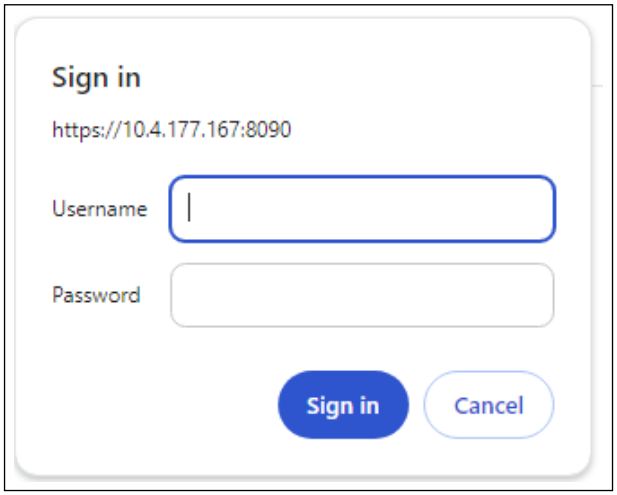
4 Set a static IP address in your laptop of 192.168.1.x, where x < 100 (see Figure 5-5).

Figure 5-6: Configuring IP



5 Log into the nOrCU admin webpage using https://192.168.1.104:8090/.

Figure 5-7: Authenticating Connection



6 On the login screen, enter the **Username** and **Password**.

7 Click **Sign in**. The Administrator screen is displayed.

Figure 5-8: Administrator Screen

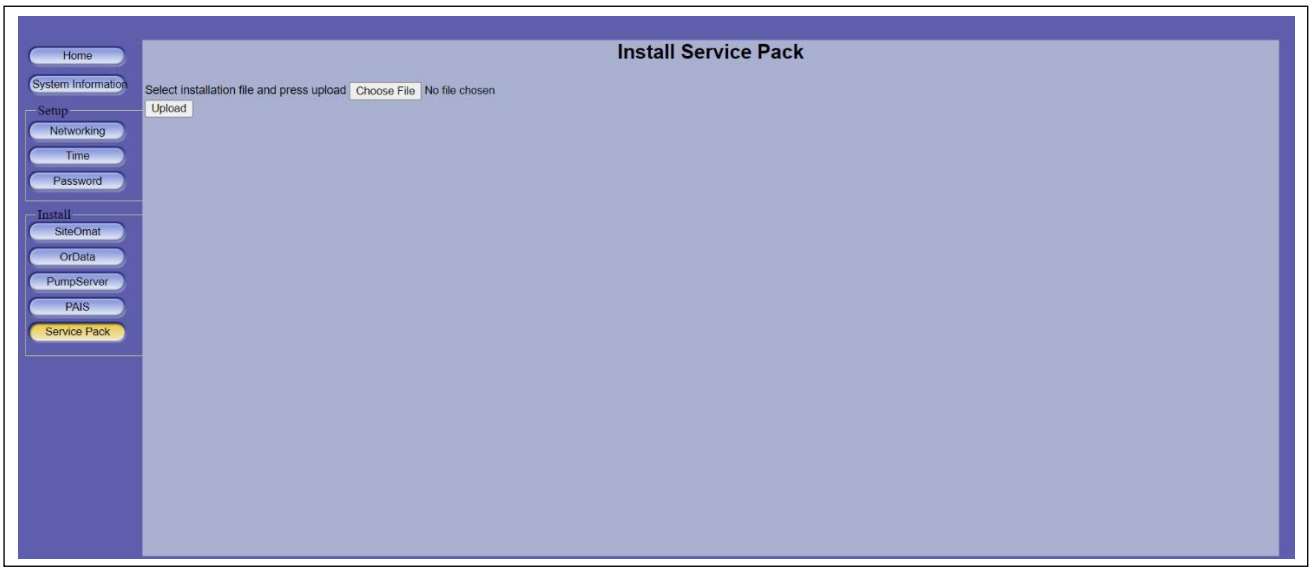
8 Ensure that the Service Pack software version is V25. Also ensure that the SiteOmat software is the latest version.

9 If the software version is not correct, click **Service Pack** to load the software.

Figure 5-9: Installing the Operating System

The **Install Service Pack** screen is displayed.

Figure 5-10: Install Service Pack Screen



10 Click **Choose File**. A standard Windows dialog box opens.

11 Click **Upload** to upload the file to nOrCU. Once the upload is complete, the screen displays the file submitted for upload.

12 Click **Install** to begin the installation process. The installation begins.

13 Click **OK** in the warning box that is displayed, to proceed with the installation.

14 Once the installation is complete, power cycle the PAS to complete the installation process.

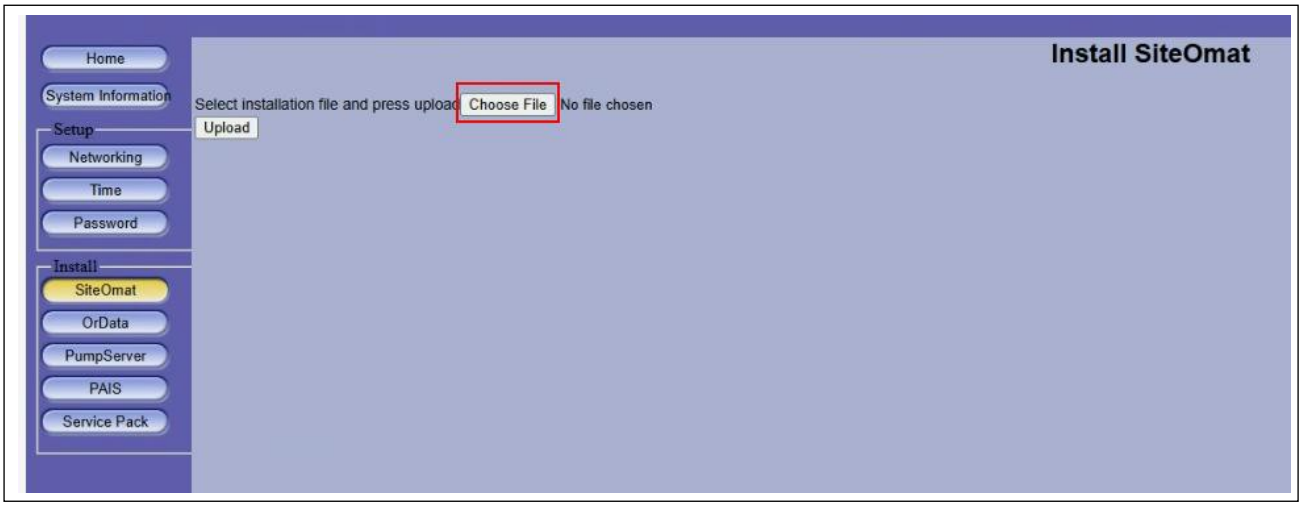
15 Once the Service Pack is loaded, go to the **Administrator** page (https://192.168.1.104:8090) If the SiteOmat version is not correct, install the SiteOmat software, which is available in the SiteOmat folder downloaded from the File Transfer Protocol (FTP) site.

16 Click **SiteOmat** to load the SiteOmat software.

Figure 5-11: Installing SiteOmat Software

The **Install SiteOmat** screen is displayed.

Figure 5-12: Install SiteOmat Screen



17 Click **Choose File**. A standard Windows dialog box opens.

18 Locate the file in the SiteOmat directory and click **Upload**.

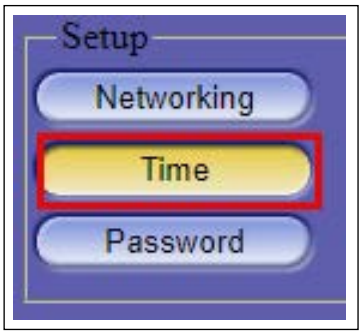
19 Once the upload is complete, the screen displays the file submitted for upload.

20 Click **Upgrade** to begin the upgrading process.

21 Once the installation is complete, power cycle the SiteOmat to complete the upgrading process and log into the nOrCU admin page again.

22 To set the time to the correct time zone, from the menu on the left, under **Setup**, click **Time**.

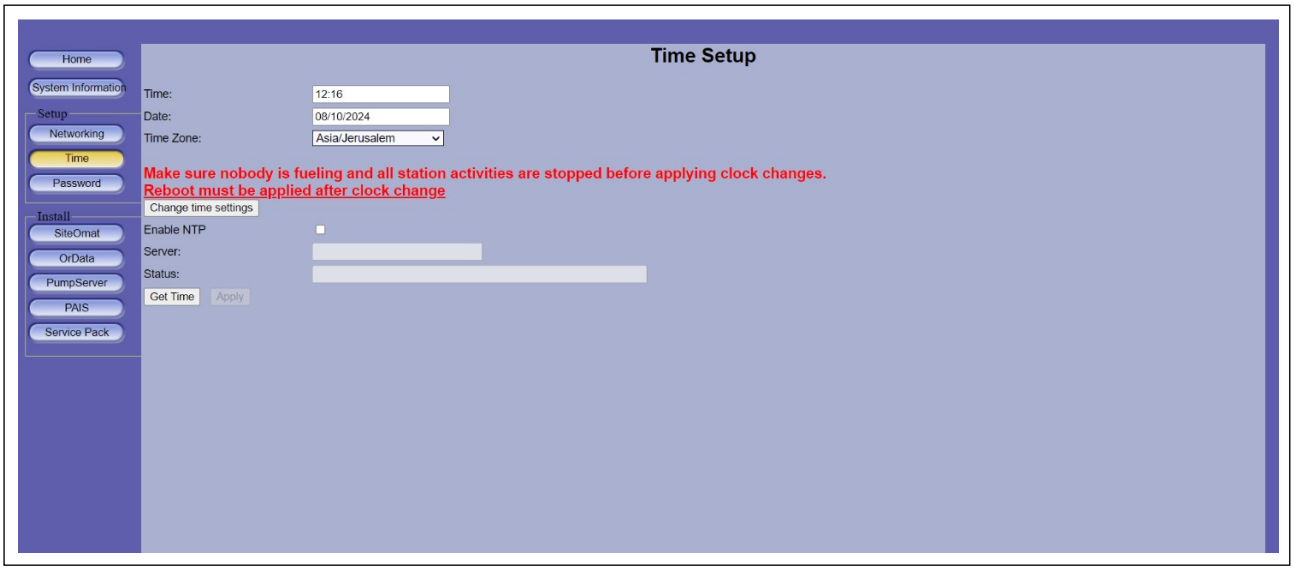
Figure 5-13: Setting the Time



23 Enter the **Time and Date** in the corresponding text boxes.

24 Select the **Time Zone** from the drop-down list.

Figure 5-14: Time Setup Screen



25 Click on the **Change time settings** button to save the changes.

26 Select the **Enable NTP** checkbox. The Apply button is enabled.

27 Click **Apply**.

The system connects to the NTP server, and the **Time and Date** fields are updated according to the server.

*Note: When the NTP is enabled, the **Time and Date** fields are read-only, and the user can only change the **Time Zone**. If NTP is not enabled, the user needs to manually update the **Time and Date** fields.*

The **Status** field displays the last status if the user is connecting after the initial connection. At the time of establishing NTP connection, the following messages are displayed:

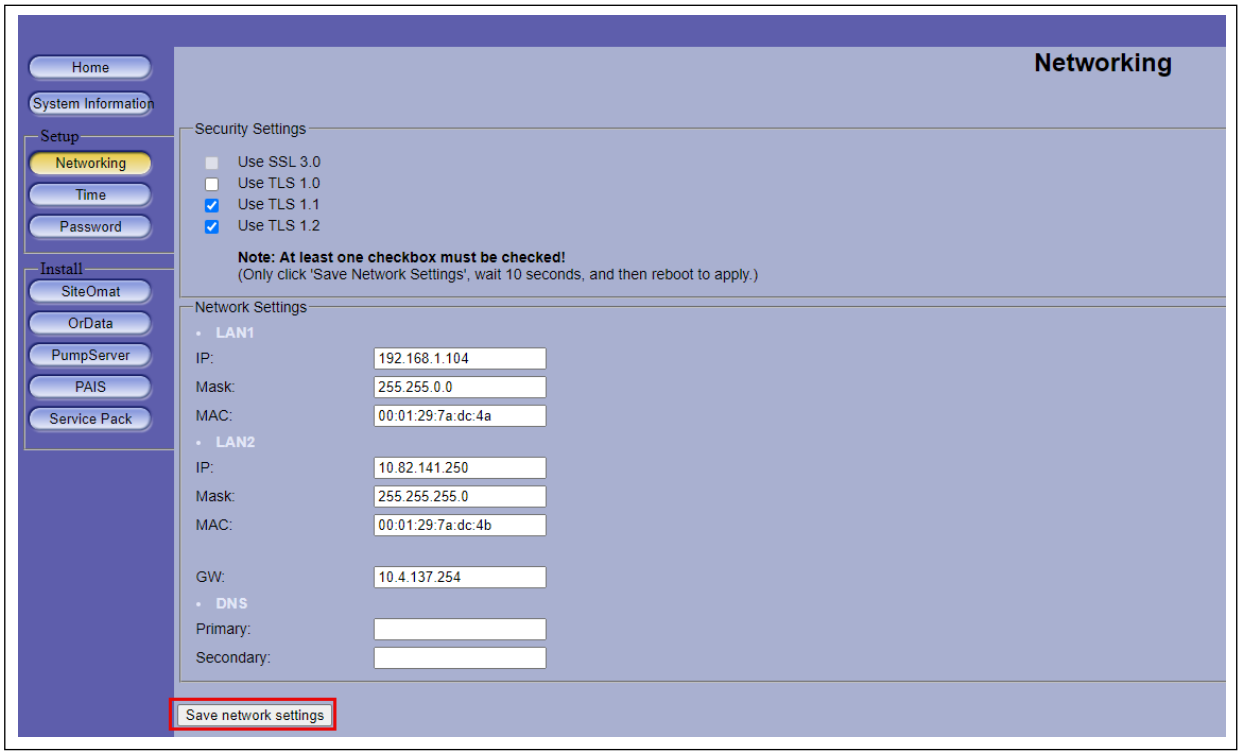
- **Connecting to Server**: When the system is trying to connect to the NTP server.
- **Successfully Connected to Server**: When the connection to the server is successful.
- **Cannot Connect to Server**: When the connection to the server fails.

28 From the **Setup** section, click **Networking**. This allows you to enter the customer's IP address, subnet mask, and gateway addresses recorded from the customer.

Figure 5-15: Configuring the Network Settings

29 Select and update the addresses for LAN 2 with the customer specified addresses.
Note: DO NOT set the LAN1 and LAN2 schemes to be the same.

Figure 5-16: Networking Screen



30 After entering the customer's LAN address, click **Save network settings**.

31 Power cycle the PAS unit to reboot the system.
Note: DO NOT change the LAN 1 address; leave all the default settings as is.

Setting up Station Parameters

To set up station parameters, proceed as follows:

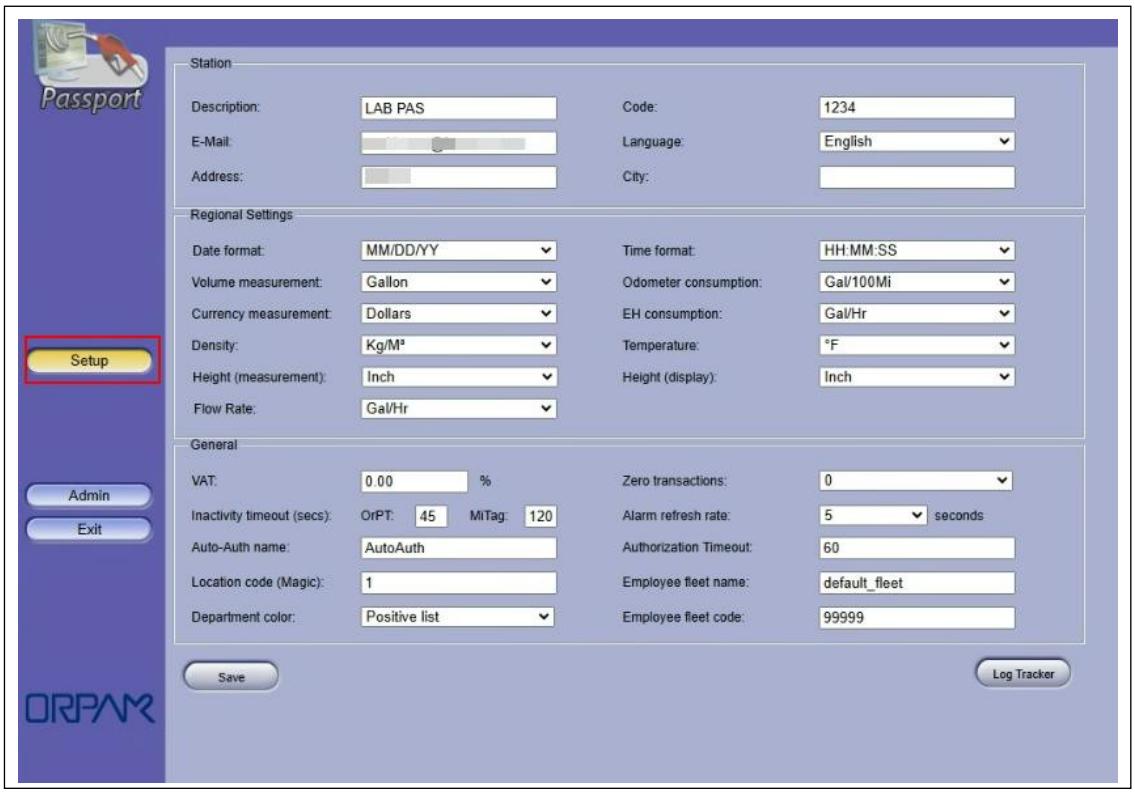
1 Log in to the PAS unit through LAN 1 using https://192.168.1.104.
The **Passport Login** screen is displayed.

2 Enter the username and password as follows:
- **User**: Admin
- **Password**: Admin

Figure 5-17: Passport Login Screen

3 Click **Login**. The main setup screen is displayed.

Figure 5-18: SiteOmat Main Setup Screen



4 Define the station by entering the following identification parameters.

a Enter the station description.

b Enter the station code.
Note: The station code must match the station ID for the FHO.

5 Click **Save**.

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6 – Installation

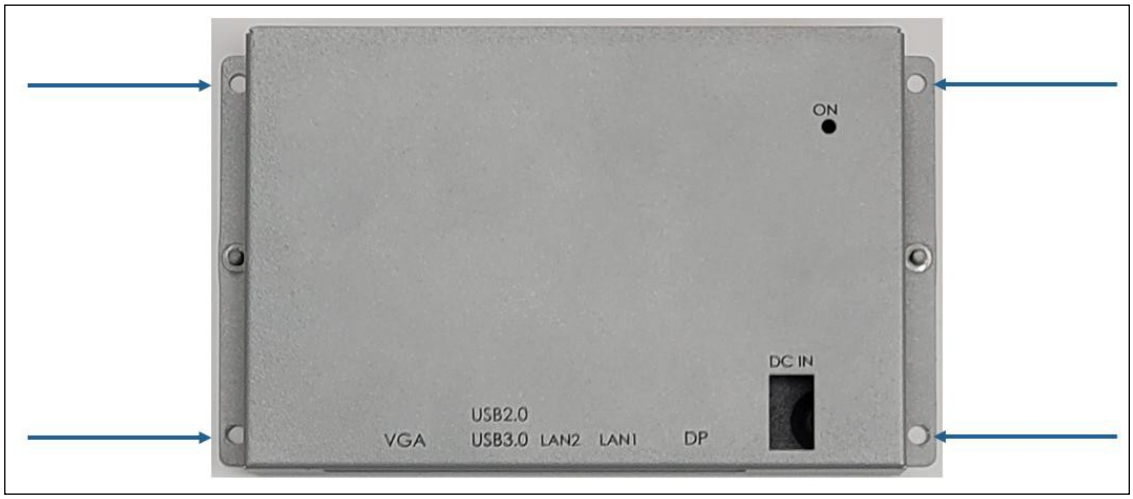
This section provides the installation procedures for nOrCU PRIME.
Note: The nOrCU PRIME is designed for indoor installation only.

To perform the installation, proceed as follows:

1 Designate a clean, dry place for the unit location.

2 To fix the unit in place, use the four screws supplied with the unit. These screws are drilled screws designed for use on a wooden or plastic surface. Screw them through the designated holes in the unit (see Figure 6-1).

Figure 6-1: nOrCU Installation Holes



3 Connect the power supply provided with the unit to the unit's DC port.
Note: The nOrCU PRIME is powered by a Class 2 approved power adapter.

4 Connect the AC cable to the power supply.

5 Connect the other end of the AC cable to the wall outlet (wall socket).

6 When the voltage is connected, a short beep sounds, indicating that the BIOS system is starting up.

7 Continue with the setup steps and programming settings accordingly.

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7 – Connecting the PAS Station to the FHO

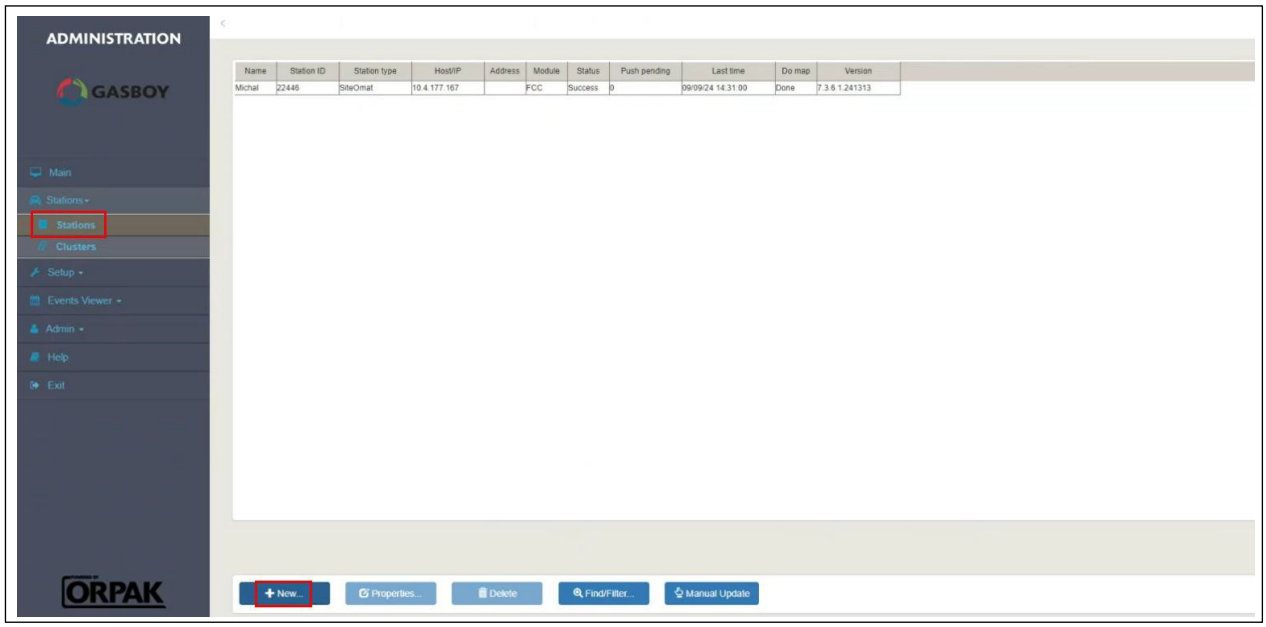
This section describes the process of connecting the PAS station to the FHO.

1 Log in to the HO360 application.

2 On the left menu of the main admin screen, click **Stations** and then **Stations** again.

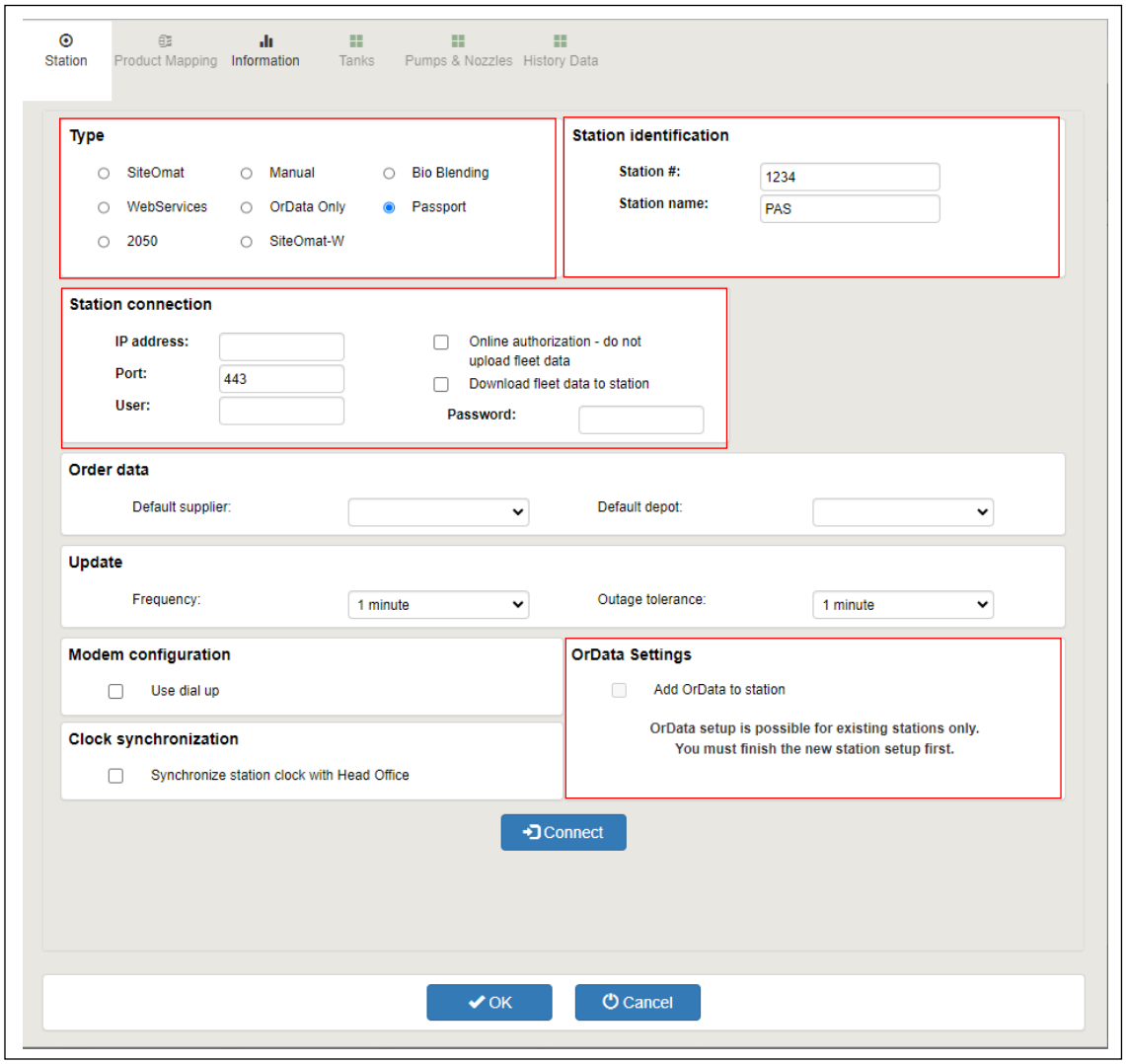
3 To set up a new station, click **New**.

Figure 7-1: Setting Up a New Station



4 In the **Station Properties** window, select the **Type** as **Passport**.

Figure 7-2: Configuring Station Properties



5 Under **Station identification**, enter the following:
- **Station #:** Enter the station code; it must be identical to the station number assigned in the FHO/EKOS to be able to connect to either the FHO or the EKOS server.
- **Station name:** Enter the station name.

6 Under **Station connection**, enter the following:
- **IP address:** Enter the IP address of the PAS station (supplied by the customer).
- **Port:** Enter the port of the PAS station.
- **User:** Enter the user as HOCOMM.
- **Password:** Enter the password as 123456.

7 Click **Connect**.
The PAS station is connected to the FHO and devices can now be created in the HO.
For details, refer to *MDE-4821 Fleet Head Office System Installation and User's Manual*.

8 – Programming Auxiliary Network Passport

The Passport system will support the Auxiliary network through the activation of a new feature called Enhanced Card Services. The Auxiliary network will be activated by the Gilbarco Support Center when a technician calls in for feature bundle activation.

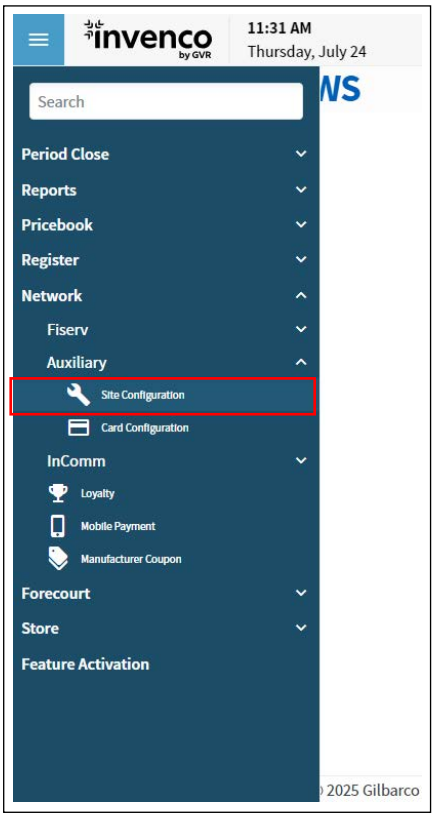
Note: Any questions related to configuration setup on the Passport system should be directed to Passport Technical Support at: 1-800-743-7501.

Programming Auxiliary Network Site Configuration

To configure the Auxiliary Network Site, proceed as follows:

1 In the left navigation menu, under **Network > Auxiliary,** click **Site Configuration**.

Figure 8-1: Auxiliary Network Site Configuration



2 Enter or select the parameters for Auxiliary network site configuration (see Figure 8-2 and Table 8-1).

Figure 8-2: Auxiliary Network Global Network Parameters

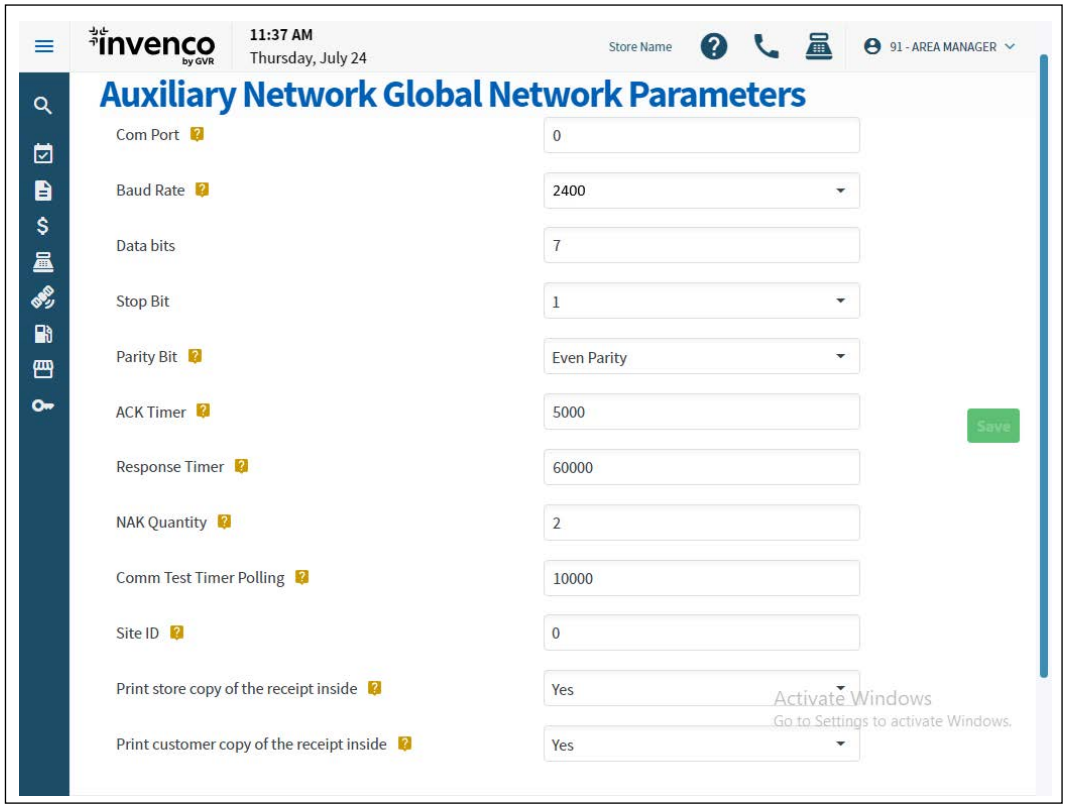


Table 8-1: Auxiliary Network Global Network Parameters

Parameter	Description
Com Port	This field represents the system, Com port setting for the Auxiliary network device. The port configuration is determined by adding 4 to the actual port the device is plugged into on the USB/RS-232 converter.
Baud Rate	*PAS will be set to 2400 baud rate, match Passport to same value*.
Data bits	The data bits configuration value for interfacing to the Auxiliary network device. Passport interface requires Data Bits value of 7.
Stop Bit	The stop bit configuration value for interfacing to the Auxiliary network device. Passport interface requires Stop Bit value of 1.
Parity Bit	The parity bit configuration value for interfacing to the Auxiliary network device. Passport interface requires Parity Bit value of Even Parity.
ACK Timer	The amount of time, in milliseconds, the Auxiliary network device has in which to acknowledge a Passport system request. Default value is 5000.
Response Timer	The amount of time, in milliseconds, the Auxiliary network device must respond to Passport. Default value is 60000.
NAK Quantity	The number of NAK responses the Passport system will accept from the Auxiliary network device before it stops polling and disconnects from the device. Default value is 2.
Comm Test Timer Polling	The amount of time the Passport system remains offline with the Auxiliary network device after reaching the NAK quantity. Default value is 10000.

Parameter	Description
Site ID	The Site ID, up to ten digits, the Auxiliary network uses to uniquely identify the Passport site. Obtain this value from the Auxiliary network device provider. For PAS devices, this value must match the PAS station code.
Print Store copy of the receipt inside	To print the receipt, select from the available options Yes/No.

Note: All response/ACK/NACK times should be left as default, unless instructed specifically by the Auxiliary network.

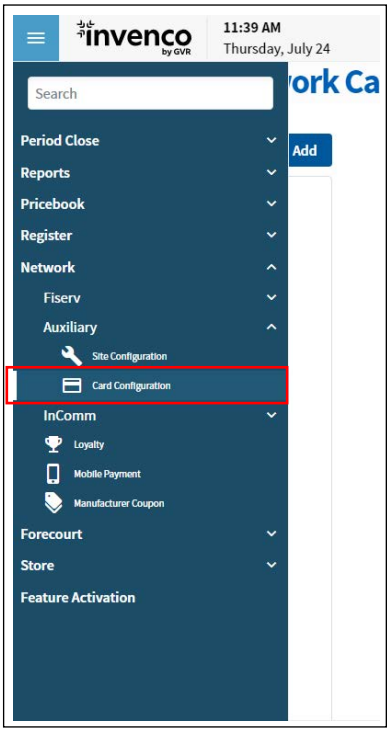
Programming Auxiliary Network Card Configuration

The Auxiliary Network Card Configuration screen allows the Passport system to route cards to the ACU. All accepted Auxiliary network card International Standards Organization (ISO) numbers must be programmed on this screen.

To configure the Auxiliary Network Card, proceed as follows:

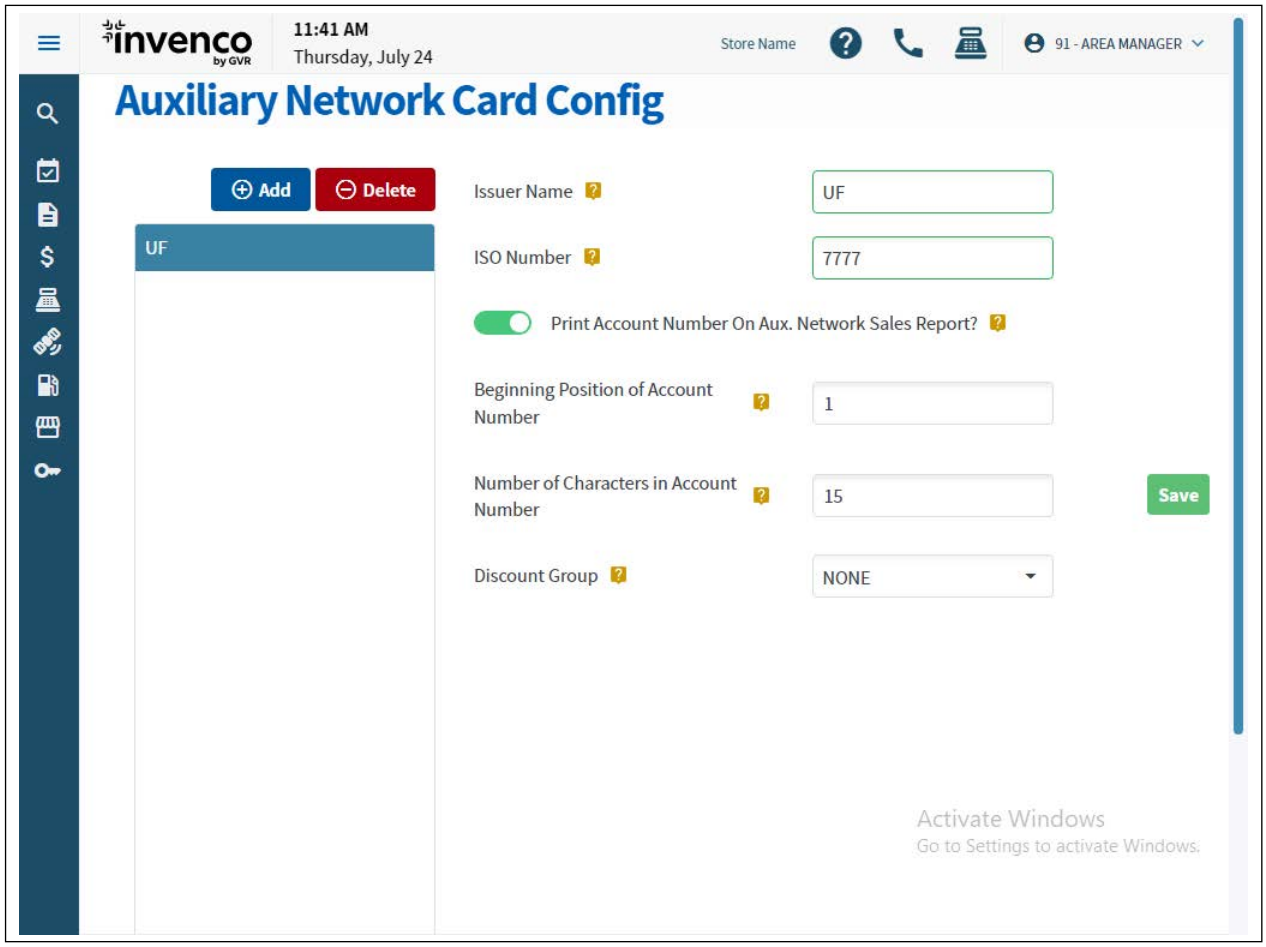
1 In the left navigation menu, under **Network > Auxiliary**, click **Card Configuration**.

Figure 8-3: Auxiliary Network Card Configuration



2 Enter the following parameters:
- Issuer Name: Name of the card issuer that will be using the cards.
- ISO Number: Number that is encoded on the track of the card. This number is programmed on the cards by the manufacturer. Figure 8-4 shows an example of ISO number.

Figure 8-4: Auxiliary Network Card Config Screen



Note: The ISO number can be obtained from your network provider or the Jobber. It is not provided by Gilbarco.

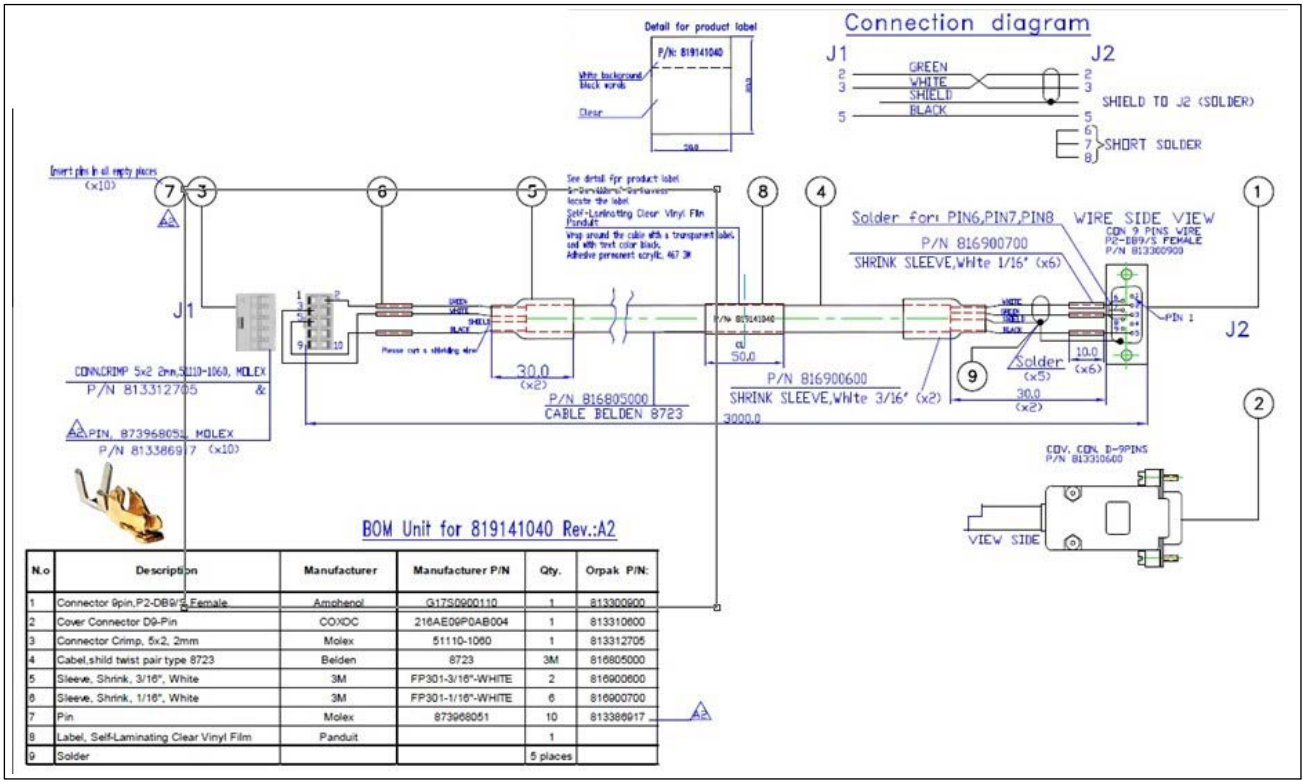
Appendix: Maintenance and Troubleshooting

This section provides essential technical reference information to support the proper setup, operation, and maintenance related to PAS. It includes the serial cable wiring diagram, a list of error codes with descriptions to aid in diagnostics, troubleshooting steps for common issues, and key device considerations and limitations that should be kept in mind during installation and use.

PAS Serial Cable Wiring Diagram

This section describes how to manufacture a PAS serial cable in case the PAS serial cable is missing, or a longer run is needed.

Figure A-1: PAS Serial Cable



N.o	Description	Manufacturer	Manufacturer P/N	Qty.	Orpak P/N:
1	Connector 9pin,P2-DB9/S Female	Amphenol	G17S0900110	1	813300900
2	Cover Connector D9-Pin	COXDC	216AE09P0AB004	1	813310600
3	Connector Crimp, 5x2, 2mm	Molex	51110-1060	1	813312705
4	Cabel,shild twist pair type 8723	Belden	8723	3M	816805000
5	Sleeve, Shrink, 3/16", White	3M	FP301-3/16"-WHITE	2	816900600
6	Sleeve, Shrink, 1/16", White	3M	FP301-1/16"-WHITE	6	816900700
7	Pin	Molex	873968051	10	813386917
8	Label, Self-Laminating Clear Vinyl Film	Panduit		1	
9	Solder			5 places	

Passport Errors Codes Related to PAS/Auxiliary Network

Table A-1: Passport Errors Codes Related to PAS/Auxiliary Network

Error Code	Description
201	2stage: vehicle and driver not connected
78	Fleet credit limit
79	Mean credit limit
76	Mean is in blacklist
75	Cluster rule
40	Wrong product
38	Month visit
37	Week visit
36	Day visit
35	Month limit
34	Week limit
33	Day limit
1	DB error
82	Blocked mean (device)
83	Blocked fleet
129	Blocked department
162	Limit credit
167	Invalid format
200	Wrong expiration date
198	Card expired
199	Mean expired (device)
2	Card declined
4	First card is wrong
6	Second card is wrong
8	PIN error
10	Cannot parse incoming message

Error Messages

Table A-2 lists the error messages and their solutions.

Table A-2: Error Messages

Issue	Solution
Auxiliary network is offline	• Check sync status for PAS Controller in FHO/EKOS server. If Status shows Success, retest card. • Check serial cable between PAS controller and EDH. • Check that PAS controller has power LED lit. • Perform Store Close on Passport.
Communication error. Please Try Again	There was an issue communicating to the PAS Controller, try again.
Transaction Declined. Product Restricted	The customer tried to buy a product which is not allowed for the particular card.
Card Not Found	The cashier has declined every issuer name that the auxiliary network has prompted.

Troubleshooting

Table A-3 lists troubleshooting issues and their solutions.

Table A-3: Troubleshooting

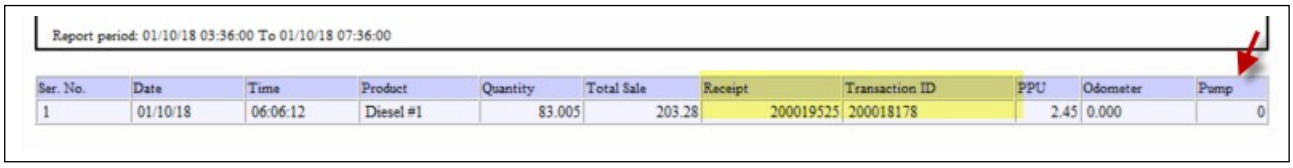
Issue	Instructions for Service	Solution
Unable to process auxiliary network cards at the POS or outside at the dispenser. POS network status displays Offline.	• Card downloads or update in process to the PAS. • PAS controller cable to EDH may be disconnected. • PAS controller is not power on.	• Check sync status for PAS Controller in FHO/EKOS server. If Status shows Success, retest card. • Check serial cable between PAS controller and EDH. • Check that PAS controller has power LED lit. • Perform Store Close on Passport.
Auxiliary network (Site complains of slow card processing).	If the auxiliary network card is not on file, the PAS controller will need to reconnect to the FHO/EKOS server to check and validate the card number.	Check sync status for PAS Controller in FHO/EKOS server. If Status shows Success, retest card.
Grade restrictions for auxiliary network cards do not work.	Check CRIND and Dispenser firmware versions. Older versions of CRIND or Pump firmware does not support grade restrictions.	Check and update firmware.
PAS controller is not functioning properly-LEDs are not lit.	• Defective power supply. • Defective pads controller.	• Replace power supply. • Replace PAS controller.
Controller is not functioning properly LEDs are lit.	PAS controller application failure.	Verify that PAS controller application settings and communication parameters are properly defined.

PAS Controller Programming Considerations/Limitations

Th following points give information about important programming constraints and limitations specific to the PAS controller:

- Passport Dept codes can be changed.
  - Dept Codes = Product Codes in FHO.
  - Some networks allow fuel code changes. Others (Shell®, XOM) do not.
  - Product Codes can be changed in FHO
- Price Discounts - Price Per Unit (PPU) on pump does not change nor receipt.
  - Fixed Price Discounts Not Supported (Absolute/Percentage Discounts - OK)
- Rules - Dollar Limits only Supported for Rules.
  - Rules and mismatched products could be a problem.
- PAS controller acts like a credit card network and approves or declines cards.
- Receipt and Transaction ID are reported from FHO.

Figure A-2: Receipt and Transaction ID Reported from FHO



Report period: 01/10/18 03:36:00 To 01/10/18 07:36:00

Ser. No.	Date	Time	Product	Quantity	Total Sale	Receipt	Transaction ID	PPU	Odometer	Pump
1	01/10/18	06:06:12	Diesel #1	83.005	203.28	200019525	200018178	2.45	0.000	0

- Receipts using local card templates.
- Standard Passport receipt includes:
  - Date, Time, and Quantity
  - Adds a single line containing Vehicle number and odometer reading.
  - There is a limited space to transmit this data, and these fields have been selected accordingly.
  - Each line supports a maximum of 18 Characters.

Figure A-3: Standard Passport Receipt

JENKINS OIL CO., INC
L349117781001
1100 W 500 N
CEDAR CITY, UT
84720
01/10/2018 337365649
08:47:26 AM

INVOICE 019532

PUMP# 4
DIESEL 11.539G
PRICE/GAL $2.899

FUEL TOTAL $ 33.45

CREDIT $ 33.45

CARD DATA
xxxxxxxxxxxx8823

- Additional information cannot be added.

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