

# FedEx Islander PLUS FMS

# Installation Manual

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Gasboy, G	reensboro, is an ISO 9001:2000 regist	tered facility.		
Underwrit	ers Laboratories (UL):	California Air Res	California Air Resources Board (CARB):	
UL File#	Products listed with UL	Executive Order #	Product	
MH4314	All dispensers and self-contained pumping	G-70-52-AM	Balance Vapor Recovery	
MH10581	Key control unit, Model GKE-B Series	G-70-150-AE	VaporVac	
	Card reader terminals, Models 1000, 1000P			
	Site Controller, Model 2000S CFN Series			
	Data entry terminals, Model TPK-900 Series			
	Fuel Point Reader System			

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Gasboy 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 #	CoC#	Product	Model #
95-179	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019	Dispenser	9100 Commercial Series	05-002	Atlas	8700K, 8800K, 9100K, 9200K, 9800K
95-136	Dispenser	9800 Series	91-057	Controller	1000 Series FMS, 2000S-CFN Series			

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# **1 – Introduction**

# Purpose

This manual provides instructions for installing the FedEx Islander PLUS Fuel Management System (FMS) in the off-site server.

# **Intended Users**

This manual is intended for facility personnel (Operations Manager) who installs the FedEx Islander PLUS FMS.

# **Required Equipment**

# **IMPORTANT INFORMATION**

Verify that you have all the required equipment and software to complete the installation.

Following equipment is required to install the FedEx Islander PLUS FMS:

- FedEx Custom Islander PLUS FMS (PA039400801FX)
- Contents of the FedEx project folder from ftp.gilbarco.com:
  - Board Support Package (BSP) Version 1.08 Service Pack 8
  - SiteOmat Version 6.4.33.098
  - Payment Application Interface Service (PAIS) 4.31.1.58

Note: To report any missing or damaged equipment, contact Bob Griffith at 1-336-547-5654.

# **Abbreviations and Acronyms**

Term	Description
BIR	Business Inventory Reconciliation
BSP	Board Support Package
DEF	Diesel Exhaust Fluid
DNS	Domain Name System
FHO	Fleet Head Office
FMS	Fuel Management System
GW	Gateway
HOCOMM	Head Office Communicator
LAN	Local Area Network
OrCU	Orpak Controller Unit
OrPT	Orpak Payment Terminal
OS	Operating System
PAIS	Payment Application Interface Service
POE	Power Over Ethernet
STP	Submersible Turbine Pump
WAN	Wide Area Network
W&M	Weights & Measures

# 2 – Important Safety Information

#### Note: 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).

## \Lambda 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 Gilbarco 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 Gilbarco Authorized Service Contractor or call the Gilbarco Support Center at 1-800-800-7498. 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 Gilbarco replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gilbarco 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.



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.

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.

## 

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

## 

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

## 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)

## 



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.

## 

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.

#### 



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

Seek medical advice immediately.

## \Lambda 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.

## \Lambda 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:



- 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 – Installation Procedure**

# **Before You Begin**

Use the following checklist to verify you have all the required equipment to complete the installation.

## **Pre-installation Power Inspection**

Installation and reliability issues during the initial roll out of the FedEx project have revealed a high number of sites with electrical issues, excessive noise, due to improper system and panel grounding, and other issues. These issues have made it necessary to verify the quality of the AC power at the island before removing the existing equipment and checking again post installation to verify no issues have been introduced during the installation process.

These checks/tests are simple to complete and must not add more than 10-15 minutes to the entire installation.

Following checks/tests pre-install are designed to identify additional work required, not currently part of the installation scope.

1 Verify that the AC Power for the Islander PLUS System comes from a separate, dedicated circuit breaker. No other equipment must be powered from this breaker. The system's pumps or dispensers must not be on this breaker. Power for the system must be 115 VAC + 10%, 47-63 HZ. The system draws 135 watts maximum.

# 🕂 WARNING

AC power is present on the Terminal Blocks in the pedestal. Electrical shock may occur if the operator comes in contact with these connections.

**2** Locate the SYSTEM POWER Terminal Block in the pedestal on the existing system. Use a digital AC voltmeter to measure the following voltages.

Hot to Neutral	measured at:	(fill in value)	measured by:	(print name)
This voltage must be	e 115 VAC + 10% (104 VAC to	126 VAC).		
Hot to Ground	measured at:	(fill in value)	measured by:	(print name)
This voltage must be	e 115 VAC + 10% (104 VAC to	126 VAC).		
Neutral to Ground	measured at:	(fill in value)	measured by:	(print name)
This voltage must be	$0.0 \text{ VAC} \pm 500 \text{ millivolte} (-500)$	m to 500 m	/)	

Note: If power is not within these specifications, correct it before continuing.

**3** Put ALL PUMPS into manual override and activate the pumps [ensure Submersible Turbine Pumps (STPs)/pumping units are ON]. Use a digital AC voltmeter to measure the following voltages.

-				
Hot to Neutral	measured at:	(fill in value) measu	ired by:	(print name)
This voltage must b	e 115 VAC + 10% (104 VA	C to 126 VAC).		
Hot to Ground	measured at:	(fill in value) measu	ured by:	(print name)
This voltage must b	e 115 VAC + 10% (104 VA	C to 126 VAC).		
Neutral to Ground	measured at:	(fill in value) measu	ired by:	(print name)
This voltage must b	e 0 VAC + 500 millivolts (-	i00 mV to 500 mV).		
Note: If power	is not within these spe	ecifications, correct	it before con	tinuing.
	IMPORTANT	INFORMATI	ON	

# If any readings are **NOT** within the acceptable ranges, then **STOP**. For further instructions, call Gasboy TAC at 1-800-444-5529.

4 Grounding Method: Proper system grounding is an extremely important part of the system installation. Grounds for all system devices must be wired to the breaker panel ground bus bar which, in turn, must be grounded to a ground rod. A conduit ground does not provide a sufficient ground. It is recommended that the neutral and ground bus bars be bonded together unless prohibited by local codes.

## **Pre-installation Checklist**

Following pre-installation checklist is designed to ensure proper installation:

complete the Islander PLUS installation. If issues are found, <i>call Bob Griffith at 336-547-5654 IMMEDIAT</i>	ELY to discus	s options
Description	Checkbox	
Check that you have the correct Gasboy Supplied parts: • PA093400810FX - Islander PLUS FedEx CUSTOM. • Stage 2 FedEx Islander PLUS Install Guide.		
Check the conduit layout, and ensure you have the proper supplies and clearances to complete the installation.		
Check all fueling positions for proper operation.		
Check all hose reels for proper operation - All hose reels connected to the existing system MUST be connected and controlled by the Gasboy Fleet PLUS system.		
Check the E-STOP system for proper operation.		
Find the circuit controlling the current FMS. Verify this is a dedicated circuit.		
Trace and identify control wires in the existing system.		
Know the function of the control wires.		
Identify and label the handle switch (in-use), if available.		
Identify and label the (line/load) or authorize wires.		
Identify and label the pulser wires.		
Identify and label the LAN/WAN connections.		
Mark all control wires for use when installing the Islander PLUS system.		

## **Shutting Down Island**

# **IMPORTANT INFORMATION**

For issues locating the FedEx Fleet Manager, contact Travis Langston at 1-870-704-5230.

Ensure that the facility personnel (Operations Manager) is aware of these steps before the old equipment is removed. Name and contact information for the Operations Manager and site installation parameters will be sent to you by Bob Griffith (1-336-547-5654).

FedEx Project Site Information Form, includes the following [for an example, refer to "FedEx Project Site Information Form (Example Only)" on page C-1]:

- Operations Manager's Name and Phone Number.
- Fipay Server IP Address, Subnet Mask, and Gateway IP Address.
- SiteOmat Wide Area Network [WAN Local Area Network (LAN2)] IP Address, Subnet Mask, and Gateway IP Address.
- FedEx Alpha code SiteOmat Station Name or Description.
- Site Number SiteOmat Station Code.

# CAUTION

The circuit panel must be locked out, tagged out as per normal Gilbarco® safety procedures found in the Gilbarco LMS training module http://wise.gilbarco.com. For more information, refer to GVRSAFEUS50-012 GVR Fueling Site Safety.

# **Removing Existing Equipment**

The Gasboy Fleet PLUS system will use some of the same control and communication wiring as other third-party FMS. To aid in efficient installation, all control wiring in an existing system must be labeled before disconnection.

## **Mounting Dry Islander PLUS**

To mount the Islander PLUS in the facility, proceed as follows:

- 1 When installing the Gasboy Islander PLUS at a facility with existing conduits at the fuel island, it is important to note the dimensions of the pedestal to determine if special fabrication is required for the conduits (see Figure 3-1 on page 4).
- 2 The pedestal can be cut within UL parameters from the base plate up to 18 inches. Any holes drilled in the pedestal must only be large enough to fit conduit elbows and must not be inserted above the IS Barrier Plate.
- **3** Following conduits are required for the Gasboy Islander PLUS pedestal:
  - High Voltage (AC power, pump control, ground, in-use for mechanical dispensers).
  - Low Voltage (pulser, tank gauge, and LAN).

**4** Depending on the installation, you may need to modify the existing conduit wiring to accommodate the required feeds.



Figure 3-1: Installing Gasboy Islander PLUS

**5** Make a template of the conduit configuration for the cutouts in the barrier plate. The cutouts in the plate must only be cut large enough for the wiring to be pulled through. You will also want to install conduit gaskets to prevent wire damage (see Figure 3-2).



## Figure 3-2: Conduit Configuration in Barrier Plate

6 After the pedestal and conduit needs are addressed, place the base plate over the conduits, wider side faced towards the front of the unit, and mark the island along the outside edge of the base plate as well as the inside holes for the lag bolt placement (see Figure 3-3).

## Figure 3-3: Base Plate on Conduits



# Installing FedEx Islander PLUS FMS

To install the FedEx Islander PLUS FMS, proceed as follows:

## **Downloading Software**

To download the software, proceed as follows:

- 1 Download all software and documents required for installation:
  - Site: ftp.gilbarco.com
  - ID: -
  - Password: -

Note: If the ID and Password are not known, contact Gasboy TAC at 1-800-444-5529.

- 2 Navigate to the FedEx folder and download the entire contents of this folder.
- 3 Click the Page button and select Open FTP Site in Internet Explorer®.

## Figure 3-4: Opening FTP Site in Internet Explorer

FTP directory /FedEx%20Proje	t/ at ftp.gilbarco.com - Windows Inte	net Explorer		
💽 🗢 🜈 ftp://ftp.gilbarco.co	om/FedEx%20Project/		▼ № 4 × M	
Favorites GFTP directory /Feo	IEx%20Project/ at ftp.gilbarco.com	👌 Home 👻 (	🚡 Feeds (J) 🔹 🖃 Read Mail 🗼 Print	· Page
	•	•	📑 New Window	Ctrl+N
FTP directory /Fe	dEx%20Project/ at f	tp.gilbarco.com	🔏 Cut	Ctrl+X
			Fig Copy	Ctrl+C
To view this FTP site in Windo	ws Explorer, click Page, and then	click Open FTP Site in V	Paste	Ctrl+V
In to higher level directory			Blog with Windows Live	
p to higher lever directory			E-mail with Windows Live	
8/10/2012 08:13AM	Directory BSP		at Translate with Live Search	
9/20/2012 08:00AM	Directory Documents			
8/10/2012 08:13AM	Directory PAIS		All Accelerators	
)8/19/2012 07:27PM	Directory tightync		Save As	
-,,			Send Page by E-mail	
			Send Link by E-mail	
			Edit	
			🗟 Compatibility View	
			Compatibility View Settings	
			3 Zoom	
			A Text Size	
			Style	
			and a second sec	
			Caret Browsing	F7
			Properties	
			View Source	

# **Installing Islander PLUS**

To install the Islander PLUS, proceed as follows:

1 After lag bolts are inserted in the island, position the base plate over the lag bolts, wide-side facing front. The pedestal is then placed over conduit and into the base plate. To avoid pinching wires, two technicians are required for this step. Tighten the nuts over the lag bolts to secure to the island (see Figure 3-5).

## Figure 3-5: Installing Islander PLUS



2 The control wiring must be attached to the Terminal Block after the pedestal is secure (see Figure 3-6). System power, dispenser communication, LAN, and so on, must be connected based on the Terminal Block diagram on the inside door of the pedestal (see Figure 3-8 on page 10).



## Figure 3-6: Connecting Control Wiring to Terminal Block

1	GND_1_P	9	PULSER_1
2	GND_2_P	10	PULSER_2
3	GND 3 P	11	PULSER 3
4	GND_4_P	12	PULSER 4
5	GND_5_P	13	PULSER 5
6	GND 6 P	14	PULSER 6
7	GND_7_P	15	PULSER 7
8	GND_8_P	16	PULSER 8
17	+12V_1_P	21	+12V_5_P
18	+12V_2_P	22	+12V_6_P
19	+12V_3_P	19	+12V_7_P
20	+12V_4_P	24	+12V_8_P
25	IN_USE_1_A	33	IN_USE_1_B(-)
26	IN_USE_2_A	34	IN_USE_2_B(-)
27	IN_USE_3_A	35	IN_USE_3_B(-)
28	IN_USE_4_A	36	IN_USE_4_B(-)
29	IN_USE_5_A	37	IN_USE_5_B(-)
30	IN_USE_6_A	38	IN_USE_6_B(-)
31	IN_USE_7_A	39	IN_USE_7_B(-)
32	IN USE 8 A	40	IN_USE_8_B(-)
41	LINE_1	49	LOAD_1
42	LINE_2	50	LOAD_2
43	LINE_3	51	LOAD_3
44	LINE_4	52	LOAD_4
45	LINE_5	53	LOAD_5
46	LINE_6	54	LOAD_6
47	LINE_7	55	LOAD_7
48	LINE_8	56	LOAD_8
57	NEUTRAL_IN(115/230V)		
58	LINE_IN(115/230V)		
59	GROUND_IN		

Figure 3-7: Terminal Block Connection

**3** For pumps that are NOT Gasboy 9800's, follow the wiring diagrams for electronic and mechanical per your specific application.

4 Mechanical dispenser: Note that instead of the solenoid lead tying to the Reset Complete wire; it now connects directly to Terminal Block for the Gasboy PLUS. Also, note that the Reset Motor and Submersible Feeds tie together in the junction box of the dispenser (see Figure 3-8).



## Figure 3-8: Wiring Diagram - Mechanical Dispenser

*Note: Reset Complete is the in-use line, this jumpers to line and the load line, which comes back and run the solenoid valves. Pulse wires are polarized.* 



Figure 3-9: Mechanical Pump without Solenoid Valve









## Connecting to FedEx Islander PLUS FMS Corporate Network

To connect to the FedEx Islander PLUS FMS corporate network, proceed as follows:

- 5 Locate the networking cable used in the existing FMS. Typical equipment is shown in Figure 3-12 through Figure 3-14 on page 15. FedEx Islander PLUS FMS uses Power Over Ethernet (POE) and fiber optics.
- 6 After you have located the WAN Cable, connect this to the LAN2 Port of the Orpak Controller Unit (OrCU). The OrCU is located on the door of the 8-hose mechanical unit.

 OrCU - Connect FedEx

 WAN to LAN2

Figure 3-12: Connecting WAN Cable to LAN2 Port

# **IMPORTANT INFORMATION**

"FedEx Islander PLUS FMS wireless networking equipment - DO NOT DISCARD"

This is a POE Adapter that FedEx Islander PLUS FMS uses for it wireless connections. This will have a 12-24 V Power Adapter and an Ethernet connection. The black cable shown in Figure 3-13 will commonly be found inside the existing FMS.

## Figure 3-13: POE



7 FedEx Islander PLUS FMS also uses fiber optic termination boxes and switches for connecting to the corporate network. These devices are shown in Figure 3-14.



## Figure 3-14: Fiber Optic Termination Box and Switch

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# 4 – SiteOmat Software Set Up

# Software Set Up

FedEx Islander PLUS FMS installation requires specific software to support T-Check Fleet Cards. FedEx uses only T-Check Fleet Cards in its fueling operations to authorize transactions. T-Check Fleet Cards are processed as any credit cards.

# **Process Check**

Before you begin to configure software, verify that the correct software versions are loaded in the SiteOmat.

To configure the SiteOmat software, proceed as follows:

1 Connect your laptop and Ethernet Cable to the LAN1 Port next to the 8-port CommVertor Board (see Figure 4-1).

# <image>

## Figure 4-1: Configuring SiteOmat Software

**2** Change the IP Address scheme on your laptop to align with the IP address scheme set in OrCU. An IP 192.168.1.10 as your laptop IP will work (see Figure 4-2).

Figure 4-2: Setting IP Address

ou can get IP settings assigned is capability. Otherwise, you ne e appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
C Obtain an IP address autor	natically
Use the following IP address	15:
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	x 4 9
C Obtain DNS server addres	s automatically
Use the following DNS sen	ver addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advarced

- **3** To log on to OrCU Administrator page, enter http://192.168.1.104:8090 in your browser. A logon pop-up box appears.
- 4 Type the User name (as admin) and Password (as admin). See Figure 4-3.

Figure 4-3: Entering User Name and Password

0		
Lang Charles		
i) r		A. 111
The server 192.1 password	68.1.104 at . requires a usern	ame and
Warning: This see	rver is requesting that your us	ername and
password be sen without a secure	t in an insecure manner (basic connection).	authentication
password be sen without a secure User name:	t n an nsecure manner (basic connection).	authentication
password be seri without a secure User name: <u>P</u> assword:	t n an nsecure manner (basic connection).	authencication
password be seri without a secure User name: <u>P</u> assword:	t n an nsecure manner (basic connection). admin  <u>Remember my passwe</u>	authencication

5 Click OK.

The OrCU Administrator home page appears (see Figure 4-4).

Figure 4-4: OrCU Administrator Home Page

Home	OrCU Administrator
System Information	• LAN1 IP: 192.168.1.104 Netmask: 255.255.0.0 MAC: 00:21:0e:e4:e9:33
Setup	• LAN2 IP: 10.0.0.31 Netmask: 255.255.0.0 MAC: 00:21:0e:e4:e9:34
(Networking)	PPP0 IP: XXX_XXX_XXX_XXX Netmask: XXX_XXX_XXX_XXX
Time	• Date/Time: Aug 13 2012 18:59
	• OS up time: 24 min,
Password	OrCU FW Version: 1.08 (SP8)
Serial/Modem	• Orcu s/N: 10895
LIPS	SiteOmat Version: 6.4.33.098 MODIFIED
	• OrData version: 2.0.76.1, LID 2.0.2.12

- 6 In the home page, verify that the correct OrCU FW and SiteOmat Versions appear.
  - OrCU FW Version: 1.08 (SP8)
  - SiteOmat Version: 6.4.33.098
- 7 Click **MODIFIED** (see Figure 4-4) to open the versions page. Verify the PAIS Version [4.31.1.58 (see Figure 4-5)].

## Figure 4-5: Verifying PAIS Version

Install SiteOmat OrData PumpServer	Application PAIS OrData	Version 4.31.1.58 2.0.76.1 Lib 2.0.2.12	Original 4.31.1.28
PAIS Operating System	Log		

## OrCU Set Up

Before you begin verify you have SiteOmat WAN (LAN2) IP Address, Subnet Mask, and Gateway IP Address. These are supplied on the FedEx Project Site Information Form.

To update the OrCU set up, proceed as follows:

- 1 Log into the OrCU Administration home page to see the IP, Net Mask, and MAC addresses of both LAN ports. You will also notice the date and time of the system (see Figure 4-6).
- **2** Ensure that the softwares mentioned in step 6 on page 4-3 are installed before set up.
- **3** Click the **Networking** button (see Figure 4-6) to set the IP Address of LAN1 and LAN2. The OrCU Networking screen appears as shown in Figure 4-6.

Home		OrCU Networking									
System Information	-Network Se LAN1	ettings	Additional Network Commands Enter Network commands. For routing to other networks use the following example:								
Setup Networking	IP:	192.168.1.104	'route add -net 10.180.0.0 netmask 2 Traffic to network 10.180 will be routed via ga	55.255.255.0 gw 172.25.138.193' teway 172.25.138.193							
Time	MAC:	00:21:0e:00:25:d6	Note: Use <u>only</u> commands that end and d	o not run eternally (e.g. ping)							
Password Serial/Modem	• LAN2 IP:	10.0.0.1	Network Commands								
UPS	Mask:	255.255.0.0		<u> </u>							
Install SiteOmat	MAC: GW:	00:21:0e:00:25:d7	Network Commands Output	A							
OrData PumpServer	• DNS Primary:	132.229.8.6	Test& Save	z							
PAIS Operating System	Secondary: Save netwo	rk settings									

## Figure 4-6: OrCU Networking Screen

- **4** Verify the LAN1 Network settings:
  - IP: 192.168.1.104
  - Mask: 255.255.0.0
  - MAC: default setting (do not change)

## Figure 4-7: Verifying LAN1 Network Settings

-Network S • LAN1	ettings						
IP:	192.168.1.104						
Mask:	255.255.0.0						
MAC:	00:21:0e:00:09:a6						
IP:							
Mask:							
MAC:	00:21:0e:00:09:a7						
GW:							
• DNS							
Primary:	132.229.8.6						
Secondary:							
Save netwo	ork settings						

**5** Set the LAN2 Network Settings according to the information supplied by FedEx in the FedEx Project Site Information Form.

Network Settings	Column Name (from where the data must be added)					
IP	OrCU Lan 2 IP Address					
Mask	OrCU Lan 2 Subnet Mask					
MAC	Default setting (do not change)					
Gateway (GW)*	OrCU Lan 2 GW (Gateway)					

\* Failure to set the gateway results in the inability to connect to the SiteOmat.

- 6 Set the Primary and Secondary Domain Name System [DNS (see Figure 4-7)], if provided. *Note: This is not currently used but may be implemented in the near future.*
- 7 Click the Save networking settings button, the notification text appears (see Figure 4-8).

## Figure 4-8: Saving Networking Settings

Save network settings Your changes have been saved. Press Apply or reboot to have changes take effect. 8 Click the **Apply Changes** button to save the changes and power cycle the unit to activate the new networking settings.

## Figure 4-9: Applying Changes



**9** Click the **Time** button to set the local Time, Date, and Time Zone information. The OrCU Time Setup screen appears (see Figure 4-10).

#### Figure 4-10: Setting Time, Date, and Time Zone

Setup		OrCU Time Setup
(Networking)	Time:	19:39
Time	Date:	13/08/2012
Password	Time Zone:	US/Central
Serial/Modem	Make sur	re nobody is fueling and all station activities are stopped before applying clock
UPS	changes.	
	Reboot n	nust be applied after clock change
	Change	e time settings

## **10** In the OrCU Time Setup screen (see Figure 4-10), set the following:

- Time Based on a 24-hour clock.
- Date Format is DD/MM/YYYY.
- Time Zone Set to Central for all sites.

# **IMPORTANT INFORMATION**

Ensure all fueling activities are stopped at the island before applying the time settings.

- 11 Click the Change time settings button (see Figure 4-10).
- 12 On the System Information webpage, click the **Reboot** button to reboot OrCU.

~OR~

Power cycle the SiteOmat.

# **Setting SiteOmat**

To set the SiteOmat, proceed as follows:

- **1** Verify that the PC connection to the SiteOmat has the following:
  - Operating System (OS) Microsoft Windows<sup>®</sup> 2000/XP<sup>®</sup>/2003/Win7.
  - Microsoft Internet Explorer 7 or later.
  - Sun Microsystems Java<sup>™</sup> application.
    - Note: Upgrade to the latest Java version if you experience any display issues with SiteOmat webpages (visit http://java.com).

- 2 Enter https://192.168.1.104 in your browser to login to the SiteOmat webpage. The SiteOmat Login screen appears (see Figure 4-11).
- 3 Type the User (as Admin) and Password (as Admin), and click Login (see Figure 4-11).

## Figure 4-11: Entering Username and Password

S	iteOmat Login	
User	Admin	
Password	••••	
Login	Login/Pass	

The Pump Status screen of the SiteOmat appears.

- FedEx sites will have a default set up file loaded, there is no need to run the wizard.
- Default configuration Status screen (see Figure 4-12).
  - 4 Mechanical pumps
  - Virtual in use enabled Nozzle points up
  - All pumps are blocked Black pump head

## Figure 4-12: Pump Status Screen

🖉 Pump Status - Site	Omat - Windows Internet Explorer	
SiteOmat	Pumps         Tanks         OrPT         Devices           00000000         00000000         00000000         00000000	
Status Reports	Dollars         Gallon         Emp/Veh         Nz         Fleet           1         0.00         0.000         1         5         Dollars         Gallon         Emp/Veh         Nz         Fleet	
Wet Stock Mgmt		
Setup		
		Stop All

4 Click the **Setup** button. The Setup screen appears (see Figure 4-13).

Setup - SiteOmat - 1	Windows Dispense	Internet	Explorer									
SiteOmat			oump Head						Nozzles			
	Number	Head	Factor	Options	Hose#	Tank		Active	Vehicle	e Identification Sy	stem	
Status									Channel	Cut off Delay	Satellite	
Reports	Pump 1 -	Mechanica	il i			1						
Wet Stock Mgmt	1	1	10		1	Tank_1-Diesel	*		*	0	~	
cal Management	Pump 2 -	Mechanica	al l									
Setup	2	2	10		2	Tank_1-Diesel	*		~	0	~	
	Pump 3 -	Mechanica	l.									
	3	1	10		3	Tank_1-Diesel	~	<b>&gt;</b>	~	0	~	
Frently	Pump 4 -	Mechanica	al									
Admin	4	2	10		4	Tank_1-Diesel	*	₽ [	~	0	~	

## Figure 4-13: Setup Screen

5 Click the Advanced Mode button to continue (see Figure 4-14). The screen as shown in Figure 4-15 appears.

## Figure 4-14: Selecting Advanced Mode



Figure 4-15: Setup Screen

🖉 Setup - SiteOmat - \	Windows	Internet	Explorer								
Nttps://10.0.0.1/main.h	tm?ID=UKA	DioqUqKif	2ZWxDQE2Qi	cz 1pMSUFzuY	NbkRopYROb	U1HHkVolJ.&change_p	oass=1				
	Forec	ourt	Global								
	Dispense	and the second sec	Buses	Printers	OrPT	T. Readers	P. Servers	TLG	Tanks	VIS	
SiteOmat		<u>R</u> P	ump Head				<i>.</i>	Nozzles			
Statua	Number         Head         Factor         Options         Hose#         Tank         Active         Vehicle Identification System										
Sidius								Channel	Cut off Delay	y Satelli	ite

6 Click the Global tab to open the Station Parameters screen.

The Global Station Parameters screen appears (see Figure 4-16).

C Station Parameters	- SiteOmat - Windows Inte	rnet Explorer							
	Forecourt Globa	al							
	Station								
SiteOmat	Description:	None		Code:	0				
Chicoman	E-Mail:			Language:	English	~			
Status	Address:	-		City:					
Reports	Resional Settings								
Wet Stock Mgmt	Date format:	MM/DD/YY	*	Time format:	HH:MM:SS	~			
Local Management	Volume measurement:	Gallon	*	Odometer consumption:	Mi/Gal	×			
	Currency measurement:	Dollars	*	EH consumption:	Gal/Hr	×			
Setup	Density:	kg/mª	*	Temperature:	۴	~			
	Height (measurement):	Inch	~	Height (display):	Inch	~			
	Flow Rate:	Gal/Hr	~						
	General	ieneral							
EventViewer	VAT:	0.00	%	Zero transactions:	0	×			
Admin	User Inactivity timeout:	45	seconds	Alarm refresh rate:	5 💌 seco	nds			
	Auto-Auth name:	AutoAuth		Authorization Timeout:	60				
Exit	Location code (Magic):	1		Employee fleet name:	default_fleet				
Ent	Department color:	Positive list	~	Employee fleet code:	99999				
GASBOY									
	Save		Receipt	Alams Comm.	Backup	Advanced			
CIGINA	Alams 09/18/12 14:28:22 Urgent OrCU System Disk Usage High BOS High None								
Admin None Station ID: 0 09/18/12 15:41:48 V 6.4.33.098 DB:354 🔄 🗸 100% 🔹 🦷									

## Figure 4-16: Station Parameters Screen

- 7 Set the following in the Station Parameters screen (see Figure 4-17):
  - Description Add the station description (station name), which is available in the SiteOmat Station Description column of the FedEx Project Site Information Form. *Note: Memphis as example: FXFMEM (FXF is FedEx Islander PLUS FMS and MEM is the location code).*
  - Code Add the station code, which is available in the SiteOmat Station Code column of the FedEx Project Site Information Form.
  - City Enter station city.
  - Date format Click the drop-down list from Date format and select MM/DD/YYYY.

## Figure 4-17: Station Parameters Setting

E Station Parameters	- SiteOmat - Windows Inter	rnet Explorer							
	Forecourt Global								
	Station								
SiteOmat	Description:	None	Code:	0					
	E-Mail:		Language:	English	~				
Status	Address:		City:						
Reports	Regional Settings								
Wet Stock Mamt	Date format:	MM/DD/YY	Time format:	HH:MM:SS	~				
Local Management	Volume measurement:	MM/DD/YY DD/MM/YY	Odometer consumption:	Mi/Gal	~				
	Currency measurement:		EH consumption:	Gal/Hr	~				
Setup	Density:		Temperature:	°F	~				
	Height (measurement):	DD-MM-YY	Height (display):	Inch	~				
	Flow Rate:	DD-MM-YYYY MM-DD-YY							
	General	YY/MM/DD							
	VAT:	U.UU 70	Zero transactions:	0	~				
- 8 In the General section (see Figure 4-18), enter the following:
  - User Inactivity timeout Set this to 60 seconds.
  - Zero transactions Select **5** from the drop-down list.
  - Authorization Timeout Set this to 60 seconds.

#### Figure 4-18: Global Parameters Section

~
onds

**9** Click the **Save** button to save the changes. A pop-up Processing box will display for few seconds while saving (see Figure 4-19).

#### Figure 4-19: Global Parameter Processing



**10** In the Global screen, click the **Advanced** button.

C Station Parameters	- SiteOmat - Windows Inter	net Explorer				
	Forecourt Global					
	Station					
SiteOmat	Description:	None		Code:	0	
	E-Mail:			Language:	English 💌	
Status	Address:			City:		
Reports	Regional Settings					
Wet Stock Mgmt	Date format:	MM/DD/YY	~	Time format:	HH:MM:SS	
Local Management	Volume measurement:	Gallon	~	Odometer consumption:	Mi/Gal 💌	
	Currency measurement:	Dollars	~	EH consumption:	Gal/Hr 💌	
Setup	Density:	kg/mª	~	Temperature:	'F. 💌	
Comp	Height (measurement):	Inch	~	Height (display):	Inch 💌	
	Flow Rate:	Gal/Hr	~			
	General					
EventViewer	VAT:	0.00	%	Zero transactions:	0	
Admin	User Inactivity timeout:	45	seconds	Alarm refresh rate:	5 seconds	
	Auto-Auth name:	AutoAuth		Authorization Timeout:	60	
Exit	Location code (Magic):	1		Employee fleet name:	default_fleet	
Exit	Department color:	Positive list	~	Employee fleet code:	99999	
GASBOY						
	Save		Recei	pt Alarms Comm	Backup Advanced.	

### Figure 4-20: Selecting Advanced Parameter

The Advanced Station Parameters screen appears with the advanced options (see Figure 4-21).

Figure 4-21: Advanced Station Parameter

Configure Screen  Enable Pump Authorization through Screens  Prompt for coupon information  Require Confirmation to Authorize Pump  Allow Pump Authorization with No Limit  Automatically Authorize Pump with No Limit Limit Type Money Volume Both	Enable keypad entry for authorization     Disabled     Enabled on 2nd entry only     EOD (automatic end-of-day shifts) -     Enabled:     Time to reopen:     Wait for pumps (seconds):     Shift Details	(F3) Enabled on 1st entry only Enabled on both entries	TLG Update Delivery: Inventory: Alarms: Enclosure do Enabled: IP:	Intervals
Formats         2           Decimal point precision for currency:         2           Decimal point precision for PPV:         2           Decimal point precision for volume:         2           Decimal point precision for density:         3	Attendant Shift Report  Show MOP details  Show fuel sales details  Show dry stock details	Fuel Shift Report         Image: Show MOP details         Image: Show fuel sales details         Image: Show dry stock details         Image: Show totalizer details	Port:	6500
Payment Terminal Setup	General Prompt for plate Allow Fuelling when shift is closed: Update OrPT on pump status change:	s: Disabled		

- 11 In the Formats section, set the Decimal point precision for volume to 2 (see Figure 4-21).
- **12** In the Payment Terminal section, click **Setup**. The Setup PAIS screen appears (see Figure 4-22).

Figure 4-22: Setup PAIS Page

Setup PAIS - SiteOmat Webpage	Dialog	E Contraction of the second
General		End of Day
PAIS IP: localitost	PAIS port: 0000 PAIS tasks: 32	Daily run enabled:
App log: 🗌 Enable	App port: 10001	Time to run daily: 00 💌 : 01 💌
Comm log: 📃 Enable	Comm port: 10002	
Timeout: 45 Seconds		Run EOD New
Card may not be reused within	0 Minutes	
Pre-authorize amount:	400 Dollars	
Credit processor: T-Check	<b>v</b>	
Specific		
Device IP: 10.5.32.29	Device Port: 2490	0
enable log ?: NO	×	
	the second se	
		Product Map

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- **13** Change the following on the Setup PAIS screen (see Figure 4-22 on page 4-13):
  - Timeout Set this to 45 seconds, this is the time allowed to contact the host network.
  - Card may not be reused within Set this to 0 minutes, which allows the same card to be used again for oil or Diesel Exhaust Fluid (DEF) to be dispensed.
  - Pre-authorize amount Set this to \$400.
  - Credit processor Select **T-Check** from the drop-down list.
  - Device Port Enter the Device Port, which is available in the Fipay Port Number column of the FedEx Project Site Information Form.
  - Device IP Enter the Device IP, which is available in the Fipay Server IP Address column of the FedEx Project Site Information Form.
- 14 Click the **ProductMap** button to map the local product codes that you have loaded into the site to those which are predetermined by network processor. The Translate Product Codes screen appears (see Figure 4-23).

Translate Product Codes - Sit	eOmat Webpage Dialog	
	eonae webpage bland	
Translation group:	T-Check	
External code	Product name - code	
62	DEF - 2000 💙	
63	Oil - 1 💌	Local Product Codes
99	Diesel - 1200	set in the SiteOffat
	×	
	×	
	¥	
	· · · · · · · · · · · · · · · · · · ·	
	~	
	Consel	
UN	Canca	

### Figure 4-23: Translate Product Codes

15 Verify that T-Check is available in Translation group drop-down list.

- **16** Set the following in the Translate Product Codes screen based on the table:
  - Product name code: Select local product loaded in the Islander PLUS system from the Product name code drop-down list.
  - External code: Enter the corresponding network code for the local product set in the Product name code box.

External code	Product name - code
62	DEF - 2000
63	Oil - 1
99	Diesel - 1200

Note: Repeat step 16 to add product codes.

- **17** After completing the entries, click **OK** to save (see Figure 4-23 on page 4-14); click **Cancel** to exit the screen without saving.
- 18 Verify that the Daily run enabled check box is not selected (see Figure 4-22 on page 4-13).
- **19** Click the **Save** button (see Figure 4-21 on page 4-13) to save your changes and return to the Station Parameters screen with the advanced options.

### Figure 4-24: Setting Station Parameter

Payment Terminal	Allow Fuelling when shift is closed:	<b>Z</b>
Setup	Update OrPT on pump status changes:	Disabled 💌
C Auto Calibration	Card number automatically generated	
Time to check if done: 00 🗸 : 00 🗸	Allow auto authorize pump from OrPT	
	Enable manual totalizers	
Modify	(	Close

- 20 Click the Modify button to save the changes and return to the Global tab (see Figure 4-24).
- **21** From the Global tab (step 12 on page 4-13), click the **Save** button.

**22** Click the **Forecourt** tab.

#### Figure 4-25: Selecting Forecourt



**23** Before you continue, click the **Save** or **Reload** button to load the new configuration changes into the system in the Forecourt tab.



Clicking the **Reload** button displays a pop-up box as shown in Figure 4-27.

**24** Click **OK** when reloading is complete.

### Figure 4-27: Reloading SiteOmat Process

🖉 SiteOmat Webpage Dialog 🛛 🔀	🙆 SiteOmat Webpage Dialog 🛛 🔀
🔊 https://10.0.0.1/process.htm?ID=UKA	🛛 Message from webpage 🔀 🌇 🔒
Processing	Operation successful.
	ОК
	https://10.0.0 😜 Internet
https://10.0.0 💓 Internet	(ii)
(1)	\"/

## **Pump Configuration**

To configure the pumps, proceed as follows:

1 To verify the pump configuration, click the **Setup** button from the status screen (see Figure 4-28).



- SiteOmat -	Windows Dispense	Internet	Explorer								
Omat			Pump Head						Nozzles		
	Number	Head	Factor	Options	Hose#	Tank		Active	Vehicle	e Identification Sy	stem
itus									Channel	Cut off Delay	Satellite
orts	Pump 1 -	Mechanica	l								
ck Mgmt	1	1	10		1	Tank_1-Diesel	~	[	*	0 [	*
agement	Pump 2 -	Mechanica	al								
	2	2	10		2	Tank_1-Diesel	~		~	0 [	~
up											
	Pump 3 -	Mechanica	l			19-1-1-		al al			
	3	1	10		3	Tank_1-Diesel	~		*	0 [	~
	Pump 4 -	Mechanica	al		l l						
nin	4	2	10		4	Tank_1-Diesel	~		~	0 [	~

2 Click ... [ellipse (see Figure 4-28)]. The Setup Pump Settings screen appears.

Figure 4-29: Setup Pump Settings - General

General								
Pump Number	3 Pump Head	1	Number of nozzles	1				
Mode:	Need Authorize	~						
Pump server:	PumpServer 🕑 🔜	Cluster:	2	~				
Printer:	<b>~</b>	Reader:			OrPT:	ORPT	<b>~</b>	

- **3** In the General section, verify the following (see Figure 4-29):
  - Pump Number This is the number of the pump.
  - Pump Head For example, Pump Head is 1 for the first pump on the cluster and 2 for the second pump on the cluster.
  - Number of nozzles For example, Number of nozzles will always be 1.
  - Mode Select Need Authorize from the drop-down list.
  - Pump server Select **PumpServer** from the drop-down list.
  - Cluster Set 1 for the first two master pumps, 2 for the next two master pumps.

Pump #	Head	Cluster
1	1	1
2	2	1
3	1	2
4	2	2
5	1	3
6	2	3

Following table shows the Cluster information for Mechanical Pumps.

• Orpak Payment Terminal (OrPT) - Select **ORPT** from the drop-down list. *Note: This setting causes beeps at the island when a ring or tag is read and authorized.* 

#### Figure 4-30: Verifying Pump Server - Message Factors

/olume:	XXXXXXXXX	~	Amount:	XXXXXXXXXXX	~
Totalizer volume:	XXX.XXXXXXXX	~	Totalizer amount:	XXXXXXXXXX	*
Preset volume:	XXXXXXX	~	Preset amount:	XXXXXXX	~
Price per volume (PPV):	XXX XXX	~			

- 4 In the Message Factors section, verify that the details are set as shown in Figure 4-30.
  - If transaction amount and volume are not being recorded properly this setting may need to be changed.
  - Do not change until the Pulse Factor and DIP switches have been verified and corrected.

### Figure 4-31: Verifying Mechanical Pump - Card

Specific Mechanical Pump - Card				
Nozzle Polarity:	Normal	Pulse Factor:	100	
Pulser Type:	Half Cycle Count Pulse 🗸	Virtual In Use:	Enable 💌	
Single/Dual Valve Mode:	Half Cycle Count Pulse Full Cycle Count Pulse	Flow Protection timeout (Seconds):	70	
Additional flow protection timeout (seconds):	90 Degrees Phase Pulser	Maximum volume rate per minute ( 0 for no maximum	100	
Authorization delay:	0	rate ):		

- **5** In the Specific section, verify the following is set up for the installed pumps (see Figure 4-31 on page 4-18).
  - Pulser Type Select Half Cycle Count Pulse from the drop-down list.
  - Pulse Factor Enter the correct setting for the installed pumps (as 10 or 100). - 10 - 10:1 Pulser on PUMP
    - 100 100:1 Pulser on PUMP
  - Virtual In Use Select **Enable** when a handle switch is not available and select **Disable** at all other times.
    - This is always required for hose reels for oil and lubricants.
    - This is required for some dispensers (PMC Pumps) without proper handle-switch wires.
  - Flow Protection timeout Set this to 70 seconds.
    - *Note: Flow protection timeout controls the active time (70 seconds) of the Virtual In Use after pulses stop.*
- 6 Repeat steps 1 (on page 4-17) to 5 for all pumps and oil reels.

## **IMPORTANT INFORMATION**

The More Options button is not used for FedEx Islander PLUS FMS installations.

7 To save the pump configuration settings, click **Save**, the Setup screen appears.

### Figure 4-32: Saving Pump Configuration

Wizard	Reload	Save	Export	Import	(Advanced Mode)
WIZOIU	Theidau	Jave	C CAPOIL	( import	Chuvanced Mode

- 8 In the Setup screen, click **Save** (see Figure 4-32).
- **9** To load new configuration changes into the system, click **Reload**, a pop-up box appears as shown in Figure 4-33 (i).
- 10 Click OK when reloading is complete [see Figure 4-33 (ii)].

### Figure 4-33: Reloading Configuration

🖉 SiteOmat Webpage Dialog 🛛 🔯	💈 SiteOmat Webpage Dialog 🛛 🔀
E https://10.0.0.1/process.htm?ID=UKA	Ka 🔒 🕺 Ka
Processing	Operation successful.
https://10.0.0 😜 Internet 🔒	https://10.0.0 😜 Internet
(i)	(ii)

## **Tank Configuration**

To configure the tanks, proceed as follows:

1 To verify the tank configuration, from the status screen click the **Setup** button (see Figure 4-34), the Setup screen appears.



Figure 4-34: Setup Screen

2 To view the additional options, click the **Advanced Mode** button.

#### Figure 4-35: Selecting Advanced Mode



3 In the Setup screen, select the **Forecourt** > **Tanks** tab (see Figure 4-36). The Setup Tanks screen appears (see Figure 4-37)

### Figure 4-36: Setup Screen - Tanks Tab

Setup - SiteOmat -	Windows Internet	Explorer 22WxDQE2Qkz1pMSUF	tuYNbkRopYRObL	J1HHkVoi3.8change_pas	s=1				
	Forecourt Dispensers I	Global Buses Printers	OrPT	T. Readers	P. Servers	TLG	Tanks VIS		
SiteOmat	P	ump Head			~	Nozzles			
	Number Head	Factor Option	s Hose#	Tank	Active	Vehic	le Identification S	ystem	
(Status)						Channel	Cut off Delay	Satellite	



Description	Number	Capacity	Fuel Type	Assumed V	olume	Probe	es
Tank_2	2	55.00	Oil	0.00			
Tank_1	1	20000.00	Diesel	0.00			
Tank_3	3	5000.00	DEF	0.00			
Id d b bi	1-3 [3]		Fuel Le	k			
Tank Properties	1-3 [3]	No.	Fuel Le	k companya	allan far D		0,
Tank Properties	1-3[3]	Number:	Fuel Le Leak ra	k e: G	allon/hr De	sad band:	%
Tank Properties Description: Capacity:	1-3 [3]	Number: Gallon	Fuel Le Leak ra Quiet ti	k e: Gi ne: m	allon/hr De in W	ead band:	% days

4 In the Setup Tanks screen, verify that the following Tanks are set up.

Description	Number	Capacity (in Gallon)	Fuel Type
Tank_1	1	20000.00	Diesel
Tank_2	2	55.00	Oil
Tank_3	3	5000.00	DEF

**5** To verify that the products are set up, in the Tank Properties section, click the **Products** button (see Figure 4-37 on page 4-21). The Setup Fuel Products screen appears (see Figure 4-38).

### Figure 4-38: Setup Fuel Products Screen

200	
000	
	200 000

**6** Verify that the following Names (fuel types) are set up with the Codes.

Name	Code
Oil	1
Diesel	1200
DEF	2000

## **Setting Fuel Price**

To set the fuel price, proceed as follows:

Pricing must be loaded for the pumps to properly operate. Use \$1.00 for all products at this time.

1 From the status screen, click the **Wet Stock Mgmt** button (see Figure 4-39), the Wet Price screen appears (see Figure 4-40).

Figure 4-39: Selecting Wet Stock Management

https://192.168.1.104/	nain.htm?ID=	=UFPTSyta	mQ92MTVaCr	nyK7iYWVIQI	PYB9cfGFfp0	EXW1tQ7Iwgf.as8ch	ange_pas:	5=1				-
	Dispense	a										
SiteOmat		E P	ump Head					~	Nozzles			
	Number	Head	Factor	Options	Hose#	Tank		Active	Vehicle	e Identification 9	System	
Status									Channel	Cut off Delay	Satellite	
Reports	Pump 1 -	Mechanica	1									
et Stock Mamt	1	1	10 💌		1	Tank_1-Diesel 2	•		WGT - 1 💌	0	WGT - 2 💌	

2 From the Wet Price screen, click the **Price Update** tab. The available products screen appears (see Figure 4-40).

### Figure 4-40: Verifying Price Update

Price Update	Delivery Inventory	Reconciliation Tran	sRecon	
Product	Current Rate	Effective Date	New Rate	
t Diesel	1.000	03/14/12 18:53:58	1.000	
OIL	1.000	03/14/12 14:24:12	1.000	
DEF	1.000	03/14/12 14:24:27	1.000	

**3** Click the name of the Product that you want to change (for example, change the price of Diesel).

### Figure 4-41: Modifying Price Update

Admin	Product: Diesel	Price Update:	1.000	Dollars	
Exit	Update price now.				Price Lists
GASBOY	Edit Products		Modfy		Hatory

- 4 Enter the updated price in the Price Update field (for example, \$1.000).
- 5 Select the Update price now check box, click the Modify button to update the price.

## **Unblocking or Activating Pumps**

To unblock or activate pumps, proceed as follows:

After the SiteOmat is configured, unblock or activate the pumps/oil reels that are on the site. All the pumps not being used will remain blocked.

- 1 Determine the pumps/reels that need to be activated and identify how they are numbered.
  - For example, the island has two master pumps with satellites and one oil reel.
  - Master and satellites are numbered 1 and 2.
  - Oil reel is numbered 4.
- 2 In this example, Pumps 1, 2, and 4 are active. Pump 3 is blocked.
  - For example, Status screen [see Figure 4-42 (i)]
  - For example, Setup screen [see Figure 4-42 (ii)]

### Figure 4-42: Setup and Status Screen of Pump

Pumps Tanks OrPT Devices			Pump Head				.0	Nozzles		
0000000 0000000	Number	Head	Factor	Options	Hose#	Tank	Active	Vehicl	e Identification Sy	stem
								Channel	Cut off Delay	Satellite
	Pump 1 - I	Mechanica	h							
Dollars Gallon Emp.Veh Nz Fleet	1	1	100		1	Tank_1-Diesel	2	~	0	*
	Pump 2 - 1	Mechanica	al.							
	2	2	10		2	Tank_1-Diesel 💌		~	0	~
3	Pump 3 - I	Mechanica	4							
	3	1	10		3	Tank_1-Diesel		~	0	~
	Pump 4 - I	Mechanica	d i						I	
(i)	4	2	10		4	Tank_1-Diesel		~	0	*
Pumps Status Screen										
-						(ii)				
						Pumps Setu	Screen	l		

3 On the Pump Status screen, right-click the pump that you want to unblock and select the Unblock pump option from the list.

Note: Right-clicking at the black rectangle of the pump works best.



	Pumps	Tanks	OrPT	Device
SiteOmat	000000	00	0000000	0
Status	Block p	ump	Emp/Veh Nz Fle	at à
Reports	Unblock	pump		
Wet Stock Mgmt	Authors	ze pump		
Cocal Managemen	Stop pr	imp	1	ų.
Setup	3 0.00	0.000	1	ġ
8				

4 To activate the pump, in the Setup screen, select the Active check box for the pump that you want to activate (see Figure 4-44).*Note: For example, only Pump 1 is active in the following screen.* 

### Figure 4-44: Activating Pump



## IMPORTANT INFORMATION

If unsure which dispensers to unblock or which additional pumps to add, call Gasboy Technical Support at 1-800-444-5529.

## Weights & Measures (W&M) Dongle Activation Procedure

To activate the W&M Dongle, proceed as follows:

### **IMPORTANT INFORMATION**

Mechanical pumps will not authorize if the W&M Dongle is NOT installed and set up.

1 Verify that the W&M Dongle is installed in OrCU.

Figure 4-45: W&M Dongle Installation



**2** To log on to OrCU Administrator screen, enter https://192.168.1.104:8090 in your browser. A logon pop-up box appears (see Figure 4-46).

	168.1.104 <b>?</b> ×
<b>R</b>	<u> </u>
The server 192.1 password.	68,1,104 at , requires a username and
Warning: This ser password be sen without a secure	rver is requesting that your username and t in an insecure manner (basic authentication connection).
	-
User name:	🖸 admin 💽
User name: Password:	S admin
User name: Password:	demin

Figure 4-46: OrCU Admin Login Dialog Box

- **3** Enter User name (as admin) and Password (as admin).
- 4 Click OK. The OrCU Administrator home page appears (see Figure 4-47).

Figure 4-47: OrCU Administration Home Page



**5** Click the **Serial/Modem** button (see Figure 4-48), the OrCU Serial/Modem setting screen appears (see Figure 4-49 on page 4-28).

#### Figure 4-48: Serial/Modem Setup



		Oricil Corri	
Home		Orcu Seri	al/wodem settings
Setup	Use port for External Devices     (TLG) (Com2)     Use port for Modem		
Time	Connection Mode:	Dialin	<u>S</u>
Password	Modem Type:	Siemens	
Serial/Modem	Baud rate:	57600	
UPS	The Following parameters are required		
Install SiteOmat	DTR ignored (&D or equivalent)     CD always on		
OrData	Init String:	AT&B1&A3&C0	
PumpServer	APN:		
PAIS	Dial-up Number:		
Operating System	Set Serial/Modem settings		

Figure 4-49: OrCU Serial/Modem Settings

- 6 In the OrCU Serial/Modem settings screen, perform the following:
  - Select the Use port for External Devices (TLG) (Com2) button.
  - Click the Set Serial/Modem settings button.

After clicking the **Set Serial/Modem settings** button, the following notification appears (see Figure 4-50).

Figure 4-50: Serial/Modem Warning Screen

SiteOmat	Init String:	AT&B1&A3&C0
OrData	APN.	
PumpServer	Dial-up Number:	
PAIS	Your changes have	been saved.
Operating System	Power reset must b	e applied to Controller & Modem.

**7** Power cycle Islander PLUS unit for the changes to take effect. Power cycle takes 2 to 3 minutes to complete.

8 Verify that the W&M Dongle is activated. The pulse factor drop-down list will no longer be present on the Setup screen.

### Figure 4-51: Setting Pulse Factor



## **Process Check**

After the wiring connections have been made, test the dispensers using the bypass switches on the Terminal Block.

## Synchronizing with Fleet Head Office (FHO)

Head Office Communicator (HOCOMM) user is added to communicate to the FHO. This user is automatically added from the Setup screen.

## **HOCOMM User**

To verify that the HOCOMM user is added to communicate to the FHO, proceed as follows:

1 From SiteOmat Status screen, click the Admin button. The Users SiteOmat screen appears (see Figure 4-52).

Dispense	ens											
	P	ump Head					-	Nozzles				
Number	Head	Factor	Options	Hose#	Tank		Active	1	/ehicl	e Identification	System	
								Channe	ł	Cut off Delay	Satelli	te
Pump 1 -	Mechanica	1	1									_
1	1	10		1	Tank_1-Diesel 2	•	•	WGT - 1	•	U	WGT - 2	
5												
Pump 2 -	Mechanica	1										
2	2	10	<u> </u>	2	Tank_1-Diesel 2	•	~	WGT - 3	•	0	WGT - 4	

Figure 4-52: SiteOmat Status Screen

2 Verify that the HOCOMM user is displayed in the list of users.

3 If the HOCOMM user does not exist, proceed to step 4 and add the HOCOMM user.

🖉 Users - SiteOmat - Wi	ndows Internet Explorer					ad X
None 1	User Mingmit Sys Commands	Registration				_
	Login name	Name	Group	Phone number	Email	
SiteOmat	Admin		Administrator			
Status Reports Wet Stock Mgmt Local Managemen Setup			*			
Event Viewer Admin Exit	<u> (4 4 ))</u> 1-2 [2]	New	Popeties	Delete		
ORPAN	Alama 08/30/10 13:09:16	High Co	mmunication Failed	3	System	
Admin Islander Plus Lab:	Station ID: 1-08/31/10 11:52:43-V 6.3	515 08:231		<u>n</u>	Trusted sites	1, 100% · /

### Figure 4-53: Adding HOCOMM User

4 Click the New button to add a user, the User properties screen appears (see Figure 4-54).

### Figure 4-54: User Properties

General Informatio	n
Login name:	Носомм
Password:	•••••
Confirm password:	•••••
User is part of group:	HQ Communicator

- **5** Set the User Properties as follows (see Figure 4-54):
  - Login name Set the login name as HOCOMM (all capital letters).
  - Password Set the password as 123456.
  - Confirm password Enter the same password (as 12345).
  - User is part of group Select HO Communicator from the drop-down list.
- 6 Click the **OK** button to save the User Properties.

After saving the user properties, the newly added HOCOMM user displays in the list of users (see Figure 4-55).

Figure 4-55: Verifying HOCOMM User

n?ID=TSkvs/FANQmFYCGh	c9IbQ288oQRsZJUh6EX8JUBJc	YcxMo3G2vQ&change_pass=1		
User Mngmnt Sys (	Commands Registration	<b>\</b>		
Login name	Name	Group	Phone number	Ema
Admin		Administrator		
HOCOMM	HO Communicator	HO Communicator		
			HOCOMM	I User Adde

### Synchronizing FedEx Islander PLUS FMS

To synchronize the FedEx Islander PLUS FMS, proceed as follows:

- 7 After completing hardware installation and software configuration, contact Travis Langston (or delegated person) at 1-870-704-5230 to begin the syncing process.
- **8** Provide the FedEx Location Name information when calling for a download.
- **9** End User set up.

At this time... End Users will not have access to the FHO or SITE application. All access will be controlled specifically by the FedEx headquarters.

## **Test Sequences**

After completing hardware installation and software configuration, test each pump and verify transaction details.

## **Testing Procedure for Pumps**

To test the pumps, proceed as follows:

- 1 Verify the fuel price has been downloaded to the SiteOmat from the FHO and is set to \$1.000.
- 2 Ensure pumps are no longer in bypass mode.
- **3** Run a transaction using a T-Check Card. Record the transaction information and verify the following:
  - Transaction information is captured correctly in the SiteOmat Status screen.
  - Quantity is recorded correctly and matches the pump.
  - Correct pump numbers and nozzle numbers are displayed in the SiteOmat Status screen.

## **Finalizing Installation**

To ensure that the installation is complete, the Gasboy Fleet PLUS system must be online and communicating with the FHO, and all the dispensers and satellites must be online and operational.

Commission all serialized equipment (Islander PLUS and FiPay Server) to close the Installation Service Request with Gilbarco Claims. Have this information available before communicating. You are also expected to commission and close the installation with Gilbarco Claims before leaving the facility. This page is intentionally left blank.

# **Appendix A: Commissioning**

*All installations for the FedEx Islander PLUS FMS require signed verification that the installation is complete and the customer is satisfied. Per the ASC Notification Letter, no payment will be remitted to the installer until required documentation is received.
AC Power confirmed to be within specification. Test at Idle. For more information, refer to "Pre-installation Power Inspection" on page 3-1.
Neutral to Ground: measured at: (fill in value).
Hot to Ground: measured at: (fill in value).
Hot to Neutral: measured at: (fill in value).
AC Power confirmed to be within specification. Test at load (ALL PUMPS ON). For more information, refer to "Pre-installation Power Inspection" on page 3-1.
Neutral to Ground: measured at: (fill in value).
Hot to Ground: measured at: (fill in value).
Hot to Neutral: measured at: (fill in value).
Fleet Manager trained in operation and manual bypass.
FiPay Server ground cable installed.
Program the SiteOmat.
Reboot SiteOmat.
Pumps and oil reels blocked and unblocked as needed.
Set up networking in the FiPay Server.
Set up T-Check information in the FiPay Server.
Perform all tests per the "Test Sequences" on page 4-33.
Commission equipment with Gilbarco claims via the Gilbarco extranet (http://www.gilbarco.com/interactive/login.cfm), log into your account. If you do not currently have access to the extranet, see your company gatekeeper for a username and password.
The Gasboy Fleet Plus system is operational and equipment has been commissioned with the Gilbarco Claims Department.
Signature of Installer:
Signature of Fleet Manager/Director:
Date:

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# **Appendix B: Multiple Controller Sites**

## Installing Multiple Controller FedEx Islander PLUS FMS

To keep pump numbering consistent with the existing scheme, extra pumps need to be added to the system. Unused pumps will be blocked in the SiteOmat.

For example,

- A site has two Islander PLUS systems and two pumps and oil reels.
- There are two islands each with an Islander PLUS controlling, a pump and an oil reel.
- Pumps are numbered 1 2. Oil reels are numbered 3 4.

### Figure B-1: Pump Status - SiteOmat and Terminal Block



## Gasboy 9800 Series Pumps Business Inventory Reconciliation (BIR) Set Up

Gasboy 9800 Series pumps need to be wired as mechanical pumps to maintain the BIR interface to the tank gauge as shown in Figure B-2 and Figure B-3 on page B-3.







Figure B-3: Gasboy 9800 Series Pumps BIR Set Up - 2

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# Appendix C: FedEx Project Site Information Form (Example Only)



FedEx Project Site Information Form

Following is the necessary information about the installation of 8 HOSE ISL+ w/FiPAY system for Federal Express Freight. You will be provided a play book with all the necessary instruction that along with this information will allow you to successfully complete the installation.

Take a few moments before you go to the site to read through this as well as the playbook. If you have any questions or concerns, do not hesitate to call us so we can work through them before the day of installation.

#### GVR Site ID - 125644

Site Specific Information (You will need a separate one of these for each ISL + units).

OrCU Lan 2 IP Address	OrCU Lan 2 Subnet Mask	OrCU Lan 2 GW (Gateway)	SiteOmat Station Description	SiteOmat Station Code	Fipay ALPHA Code	Fipay Port No.	Fipay Server IP Address	Fipay Server Subnet Mask	Fipay Server Gateway	Fipay Site No.
XX.X.X.XX	XXX.XXX.XXX.X	XX.X.X.X	XXXXXXX	хххххх	ххх	ххххх	XX.X.X.XX	XXX.XXX.XXX.X	XX.X.X.X	xxxxx

Note: This table is ONLY a sample.

#### Tasks to Perform While On-site

- ✓ Inspect site for any obvious problems with Wiring, Hoses, Nozzles and so on. Alert Project Manager immediately in the event issues are found you feel will not allow you to complete the project at this time.
- ✓ Verify proper operation of existing equipment.
- ✓ Verify E-Stop is working properly.
- ✓ Verify you have all required Equipment/Tools/Supplies/Personnel to complete the work before you begin.
- ✓ De-energize all power to existing island card reader and remove existing FMS system.
- ✓ Clearly mark all wiring to existing system.
- ✓ Install new ISL+ unit and wire.
- ✓ Install FiPAY server retrofit kit into ISL+ unit.
- ✓ Power up unit and program unit as per Playbook.
- ✓ Verify proper operation.
- ✓ Train on-site personnel on proper operation.

Important Contact Information						
Gilbarco/Gasboy	FedEx Freight Corporate Offices					
Bob Griffith - 1.336.547.5654 Gasboy TAC - 1.800.444.5529	Travis Langston - 1.870.704.5230 Justin Hudson - 1.870.416.6482					

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