



Gasboy®

PRIME MiFare Pod Setup and User Manual

MDE-5561A

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Approvals

Orpak, Greensboro, is an ISO 9001:2000 registered facility.

Underwriters Laboratories (UL):

UL File#	Products listed with UL
MH4314	All dispensers and self-contained pumping units
MH10581	Key control unit, Model GKE-B Series Card reader terminals, Models 1000, 1000P Site Controller, Model 2000S CFN Series Data entry terminals, Model TPK-900 Series Fuel Point Reader System

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 Compliance (CoC):

Orpak 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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Table of Contents

1 – Introduction	1
1.1 General	1
1.2 Description	1
1.3 Specifications	3
1.4 Related Documents	4
1.5 Part Number References	4
1.6 Abbreviations and Acronyms	4
2 – Important Safety Information	5
3 – Setup	9
3.1 General	9
3.2 Installation Instructions	9
3.3 Configuring the PRIME MiFare Pod in FHO	16
4 – Device Management	19
4.1 General	19
4.2 Acquiring a Tag Number	19
4.3 Upgrading the PRIME MiFare Pod Firmware	21
5 – Maintenance	25
5.1 General	25
5.2 Cleaning	25
5.3 Troubleshooting	25

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List of Figures

Figure 1 PRIME MiFare Pod – Front View	2
Figure 2 PRIME MiFare Pod – Rear View.	2
Figure 3 PRIME MiFare Pod - Dust-Cover Removed	3
Figure 4 PRIME MiFare Pod – Connectors	9
Figure 5 MiFare Pod Display – No Host Communication Message	10
Figure 6 Forecourt Homepage	10
Figure 7 Selecting the Admin Button	11
Figure 8 Selecting the Setup Tab	11
Figure 9 Entering the IP Address	12
Figure 10 Saving Setup.	12
Figure 11 Rebooting the Pod	13
Figure 12 Selecting OrPay1000	13
Figure 13 Setting the PRIME MiFare Pod in OrPay1000 Setup – General Screen	14
Figure 14 Save Tab.	15
Figure 15 Confirm Save Dialog Box	15
Figure 16 Reset Device Dialog Box	15
Figure 17 FHO Setup - General Screen	16
Figure 18 Tag Acquiring Device Field.	16
Figure 19 Device Properties Window.	19
Figure 20 Device Properties Window - Format Tab.	20
Figure 21 Software Upload Screen.	21
Figure 22 File Type Drop-Down List.	22
Figure 23 Choose File Dialog Box	22
Figure 24 File Chosen.	23
Figure 25 Confirm Upload Dialog Box	23
Figure 26 Software Uploaded Successfully	24

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List of Tables

Table 1 PRIME MiFare Pod Specifications 3
Table 2 Troubleshooting 25

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1 – Introduction

1.1 General

The PRIME MiFare Pod is a MiFare tag reader that enables the Fleet Head Office (FHO) system to read MiFare tags and associate them to drivers or vehicles within a fleet.

MiFare tags are Radio Frequency Identification (RFID) contactless fuel tags or cards that enable monitoring of fueling payments made by a driver within the fleet. By associating a tag to a specific driver or vehicle it is possible to monitor and control fuel payments made by that driver or for that vehicle.

The PRIME MiFare Pod is connected to the Head Office PC, enabling the FHO to read and associate the MiFare tag to a vehicle or driver. FHO is a centralized fleet management and authorization server for all fleet-oriented activity in a region. The FHO System is used to build the fleet and to define a set of limits and restrictions for each fleet vehicle. The FHO System includes a user-friendly limit and restrictions definition system, which provides great flexibility and enables users to set many combinations of rules for the fleet vehicles.

With the MiFare tag associated to a vehicle or a driver, the user can use FHO to assign rules and limits to the driver/vehicle associated to the tag and, subsequently, to the tag itself. This enables the user to manage fueling payments made by the driver or for the vehicle.

1.2 Description

The PRIME MiFare Pod is a standalone reader unit for contactless MiFare tags. It allows the FHO to communicate with the MiFare tags in order to associate the vehicle or driver to the MiFare tag as well as other indoor applications. The unit communicates with the HO PC via LAN interface, establishing a method of communication between the FHO and the MiFare tag (see [Figure 1](#) on [page 2](#)).

Note: The OrPay1000 keyboard and addressable keys are disabled in the PRIME MiFare Pod.

The rear panel includes a protective dust-cover housing connectors for communication and for power supply (see [Figure 2](#) and [Figure 3](#) on [page 3](#)).

Figure 1: PRIME MiFare Pod – Front View

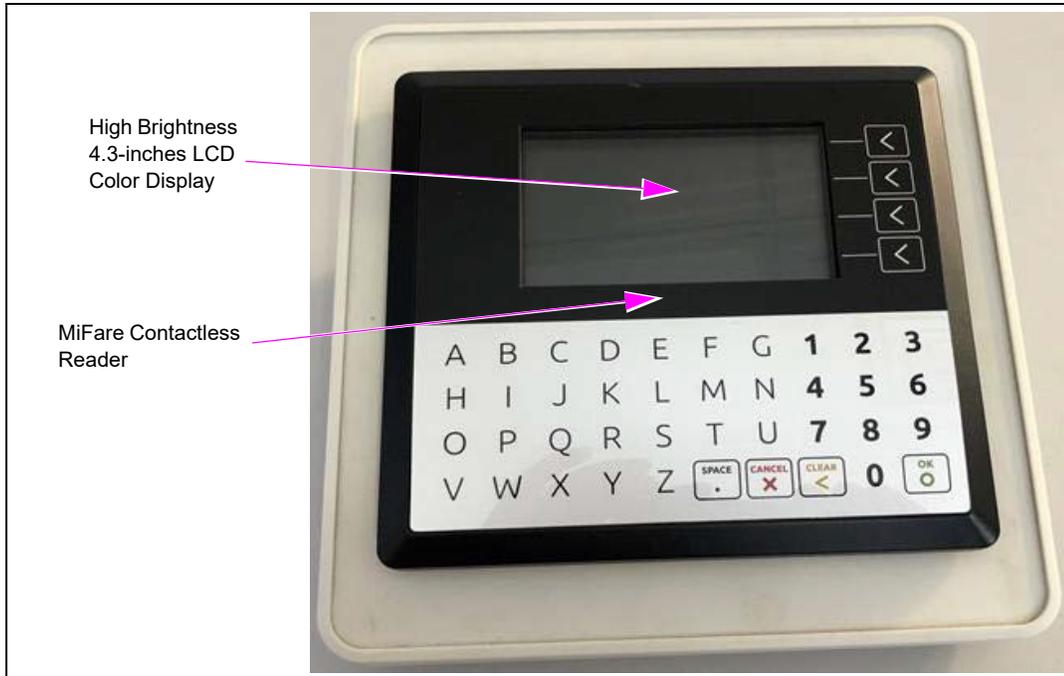


Figure 2: PRIME MiFare Pod – Rear View



Figure 3: PRIME MiFare Pod - Dust-Cover Removed

1.3 Specifications

[Table 1](#) describes the operational, physical, electrical, and environmental specifications that are applicable to the PRIME MiFare Pod:

Table 1: PRIME MiFare Pod Specifications

Scope	Specifications
User Interface	High Brightness 4.3" LCD Color Display
Reader	Contactless MiFare reader
Physical	Height: 220mm Width: 210mm Depth: 108mm Weight: 1200g
Power Supply	Input 120-240 VAC Output 24 VDC; 40W
Input 120-240 VAC Output 24 VDC; 40W	-40 °C to +65 °C
Storage Temperature	-40 °C to +60 °C
Humidity	95% RH
Communication Interface	LAN
Certification	The PRIME MiFare Pod is a certified product per FCC and UL standards.

1.4 Related Documents

Document Number	Title	GOLD SM Library
MDE-4821	Fleet Head Office System and Fuel Management Software Installation and User Manual	Gasboy [®] Fleet PLUS System
MDE-5411	ForeHB Islander PRIME Installation Manual	Gasboy Installation Manual

1.5 Part Number References

PA0402401 - MiFare Pod Reader

Tags/Cards	Part Number
MiFare Tag (10 tags per box) Blue	M09679B001
MiFare Tag (10 tags per box) Red	M09679B002
MiFare Tag (10 tags per box) Black	M09679B007
MiFare Card - White Blank each	M09679B003
MiFare Card White (Numbered) each	M09679B004
MiFare Card Green (Numbered) each	M09679B005
MiFare Card Yellow (Numbered) each	M09679B006

1.6 Abbreviations and Acronyms

Term	Description
ASC	Authorized Service Contractor
CPR	Cardiopulmonary Resuscitation
DEF	Diesel Exhaust Fluid
FCC	Federal Communications Commission
FHO	Fleet Head Office
LAN	Local Area Network
NEC [®]	National Electrical Code
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
RFID	Radio Frequency Identification
STP	Submerged Turbine Pumps
TCP/IP	Transmission Control Protocol/Internet Protocol

2 – Important Safety Information

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

2) Although Diesel Exhaust Fluid (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 (ASC) 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.

Important Safety Information

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.

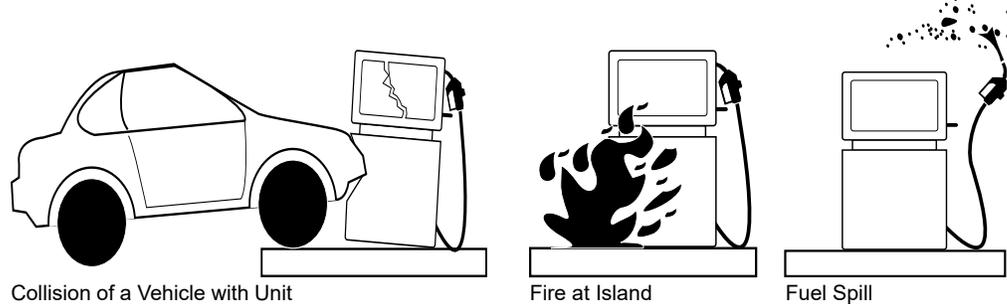
Lockout/Tagout

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:



- 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 – Setup

3.1 General

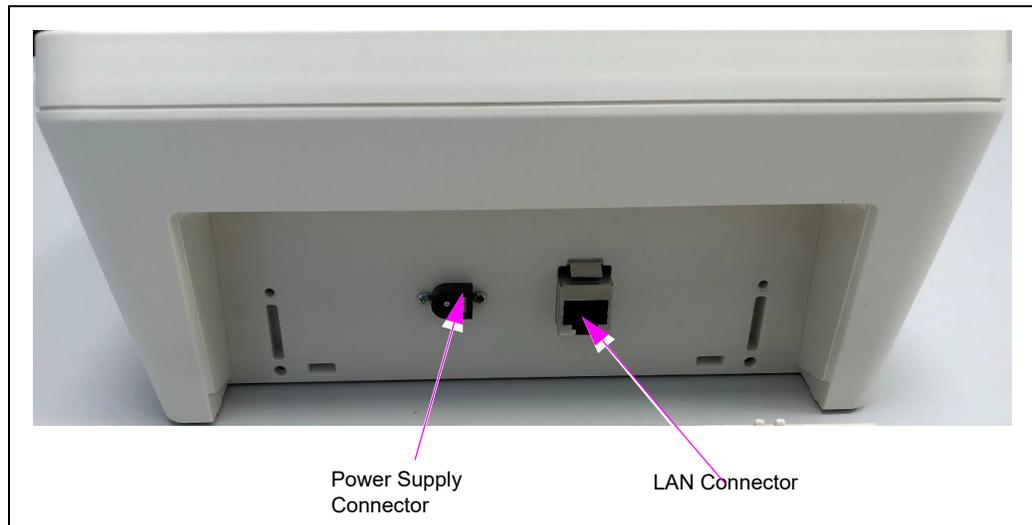
This section provides setup and configuration instructions for the PRIME MiFare Pod.

3.2 Installation Instructions

The PRIME MiFare Pod is linked to the FHO PC. The following paragraph provides step-by-step instructions for the installation of the PRIME MiFare Pod.

- 1 Place the PRIME MiFare Pod in the office next to the HO PC.
- 2 Connect the PRIME MiFare Pod to the power supply. The pod connectors are shown in [Figure 4](#).

Figure 4: PRIME MiFare Pod – Connectors



- 3 The PRIME MiFare Pod displays the following message.

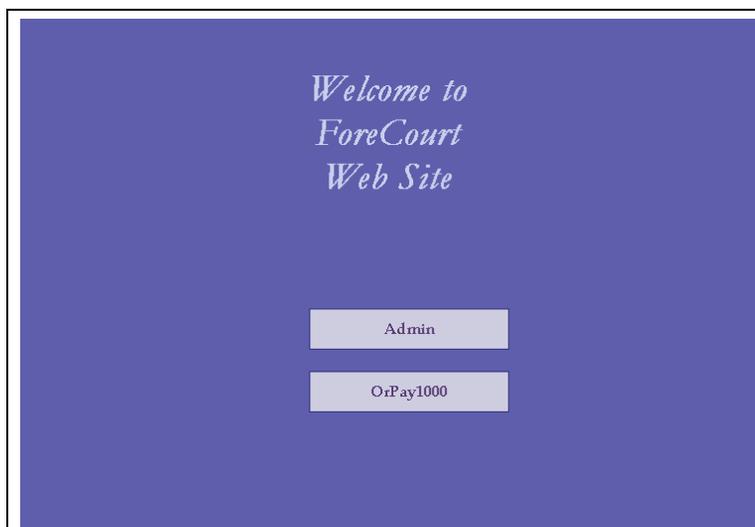
Figure 5: MiFare Pod Display – No Host Communication Message



*Note: The **No Host Communication** message is displayed whenever there is no connection between the PRIME MiFare Pod and the FHO.*

- 4 Connect the PRIME MiFare Pod to the PC, via LAN cable.
- 5 Open an internet browser and enter the Default IP address **192.168.1.202** provided by Gasboy. The Forecourt homepage opens.

Figure 6: Forecourt Homepage



The Forecourt homepage includes two buttons:

- **Admin:** General administrative settings that manage all device usage.
- **OrPAY1000:** Used to set up PRIME MiFare Pod settings.

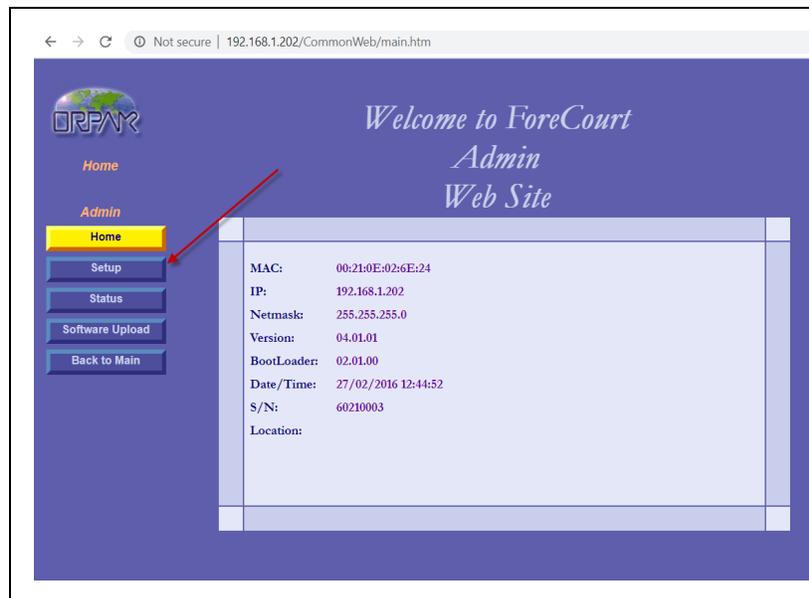
- 6 Click **Admin**.

Figure 7: Selecting the Admin Button



- 7 Select the **Setup** tab.

Figure 8: Selecting the Setup Tab



- 8 Enter the IP address, Subnet Mask, and Gateway settings to match the customer's specifications for the customer network and click **Submit**.
Note: The values seen in the screenshot below are defaults.

Figure 9: Entering the IP Address

The screenshot displays the ORFAR web interface for LAN configuration. The 'LAN' section includes fields for IP Address (192.168.1.202), Subnet Mask (255.255.255.0), MAC (00:21:0E:0E:24:00), and Gateway (0.0.0.0). The 'WD Communication' section has 'Tcp Receive' set to 'Disable' and 'T.Out (sec)' set to '45'. The 'RTC' section shows 'Date' as '27/02/2016' and 'Time' as '12:45:53'. A red warning message is present: 'Make sure nobody is fueling and all stations activities are stopped before applying clock changes.' The 'General' section has 'SAM Cards' set to '2'. The 'Submit' button is highlighted with a red arrow.

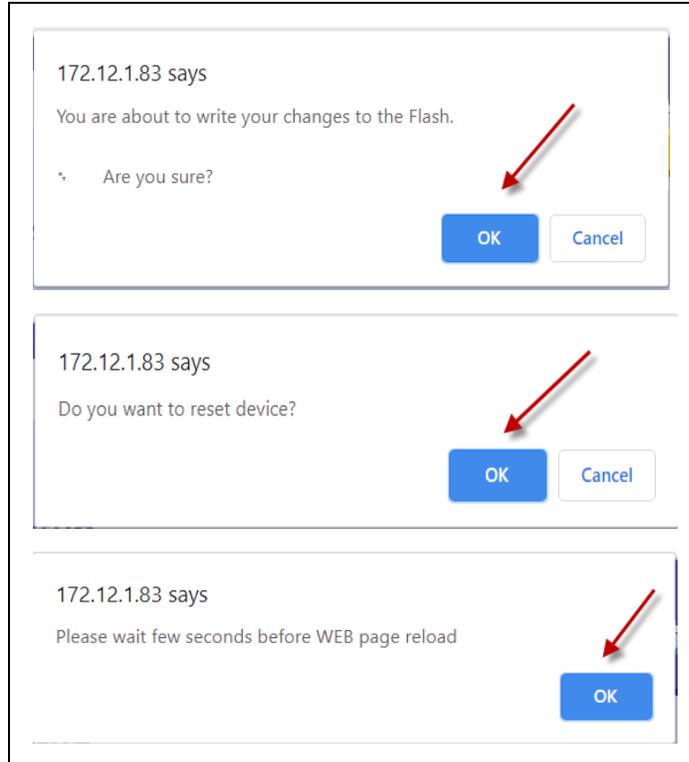
- 9 After submitting the address changes, click **Save > Apply**.

Figure 10: Saving Setup

The screenshot shows the 'Saving Setup' confirmation page in the ORFAR web interface. The page contains the following text: 'Saving Setup. The changes you've made are local. To save your changes, please click the "Apply" button. To download setup to PC, please click the "Download Setup to PC" button.' There is a 'Download Setup to PC' button and an 'Apply' button, both highlighted with red arrows.

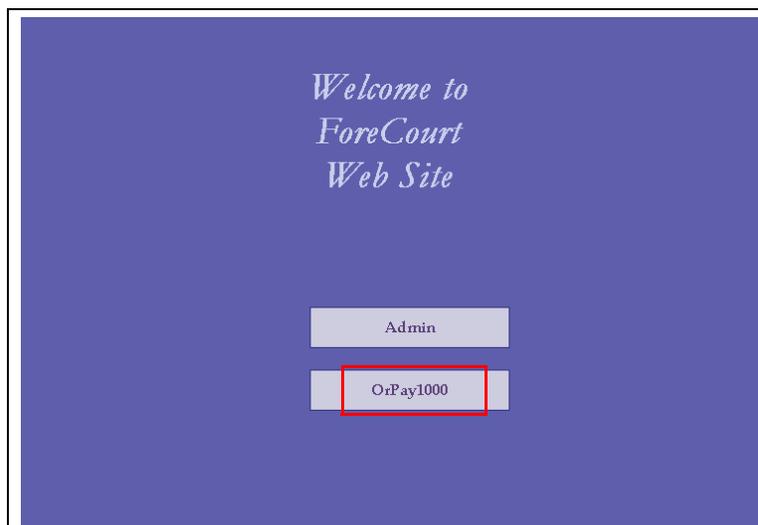
- 10 The following messages will pop up. Click **Ok** for each one. The Pod will reboot when the last one is clicked.

Figure 11: Rebooting the Pod



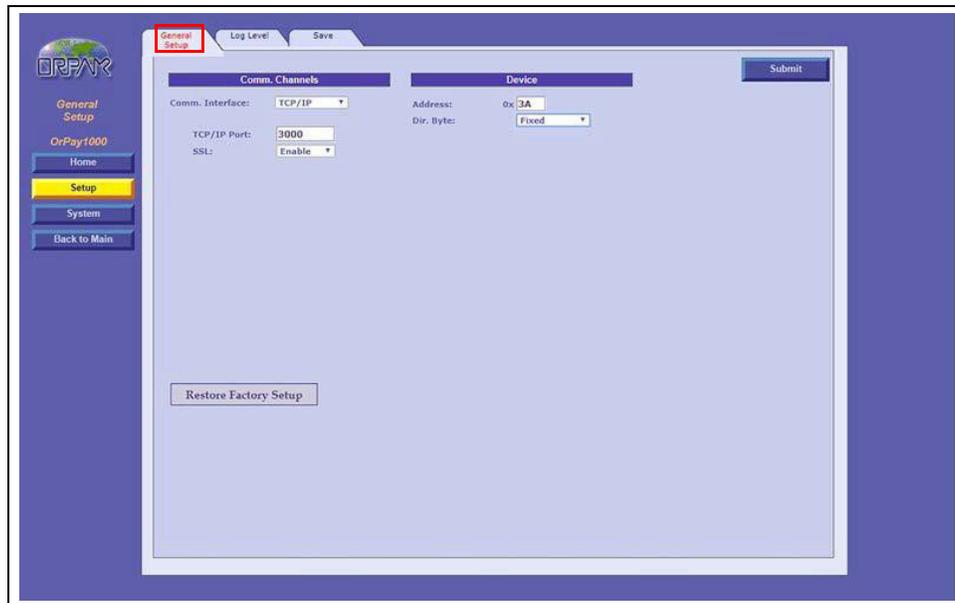
- 11 Select **OrPay1000** from the Forecourt homepage.

Figure 12: Selecting OrPay1000



- Click **Setup** and navigate to the **General Setup** tab.

Figure 13: Setting the PRIME MiFare Pod in OrPay1000 Setup – General Screen

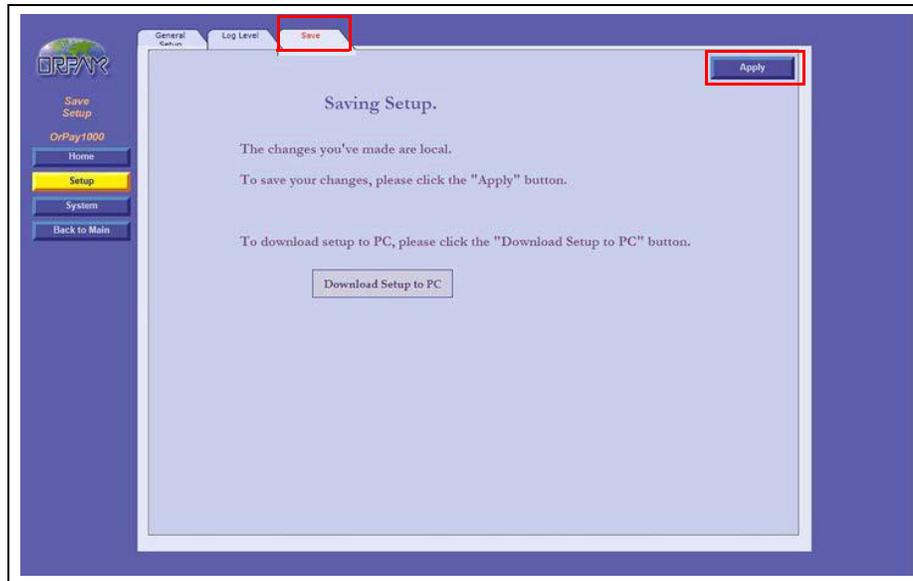


- Under the **Comm. Channels** column, set your **Comm. Interface** as **TCP/IP** from the drop-down list.
- Enter **TCP/IP Port** as the default Port **3000**.
- Under the **Device** column, enter the hexadecimal address assigned to the Pod **3A**.
- Click **Submit**.

*Note: Clicking **Submit** only saves the configuration temporarily on a local level. To commit the changes permanently, ensure that you save everything through the **Save** tab.*

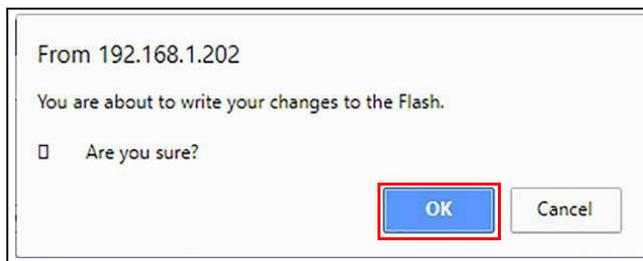
- 17 Click the **Save** tab.

Figure 14: Save Tab



- 18 Click **Apply**. The following dialog box is displayed.

Figure 15: Confirm Save Dialog Box



- 19 Click **OK** to continue. The following dialog box is displayed.

Figure 16: Reset Device Dialog Box



- 20 Click **OK** to complete the save process. The device automatically resets.
Note: If you have a more up-to-date firmware file and want to update the PRIME MiFare Pod, for more information refer to "4.3 Upgrading the PRIME MiFare Pod Firmware" on page 21.

3.3 Configuring the PRIME MiFare Pod in FHO

To configure the PRIME MiFare Pod, proceed as follows:

- 1 Browse to FHO and select **Setup > General**.

Figure 17: FHO Setup - General Screen

- 2 Select the **Tag Acquiring Device** checkbox. The Tag Acquiring Device fields are displayed.

Figure 18: Tag Acquiring Device Field

- 3 Select the **TCP/IP** radio button.
- 4 In the **IP Address** field, enter the IP address based on Customer's IP scheme specifications.
- 5 In the **Port** field enter the default port **3000**.
- 6 In the **Address** box, select the **Hex** radio button PRIME.
- 7 Enter the hexadecimal address assigned to the Pod **3A**.
- 8 Click **Save**.

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4 – Device Management

4.1 General

This section provides instructions for using the PRIME MiFare Pod.

4.2 Acquiring a Tag Number

To acquire a tag number and associate it to a device in the FHO system, proceed as follows:

- 1 Present the tag in front of the unit reader.
- 2 In cases where the PRIME MiFare Pod recognizes the tag, a beep is emitted, and the tag number is displayed on the display.
- 3 In the FHO system, navigate to **Fleet Management > Devices**. At the bottom of the **Devices** screen, click **New+**. The **Device Properties** window is displayed.

Figure 19: Device Properties Window

The screenshot shows the 'Device Properties' window with the following content:

- Navigation tabs: General, Information, Validation, Format, Two Stage
- Section: Device type:
- Options (radio buttons):
 - Vehicle mounted
 - Hand held device
 - Vehicle
 - Employee (Authorizer)
 - Driver
 - Cash customer
 - Credit customer
 - Authorized user

- 4 Navigate to the **Format** tab. Click **Acquire** next to the **Card Number** field.

Figure 20: Device Properties Window - Format Tab

The screenshot shows the 'Format' tab of the Device Properties Window. The 'Format' tab is highlighted with a red box. Below the tabs, there are five rows of 'Card number' fields, each with a corresponding 'Acquire' button. The first 'Acquire' button is highlighted with a red box. Below the card numbers, there are fields for 'Vehicle ID' (with a 'Select Model' dropdown), 'Fuel code', 'Expiration date', 'Hardware type' (with a 'Fuelopass' dropdown), and 'Device format' (with a dropdown).

- 5 The tag number is displayed in the **Card Number** field to the left of the **Acquire** button.
- 6 At the bottom of the window, click **OK & New** to apply the changes and associate the tag(s) to the driver/vehicle.

Note: Steps 1, 2, and 4 can be repeated up to five times to register five tags at one time for each of the remaining Card Number fields.

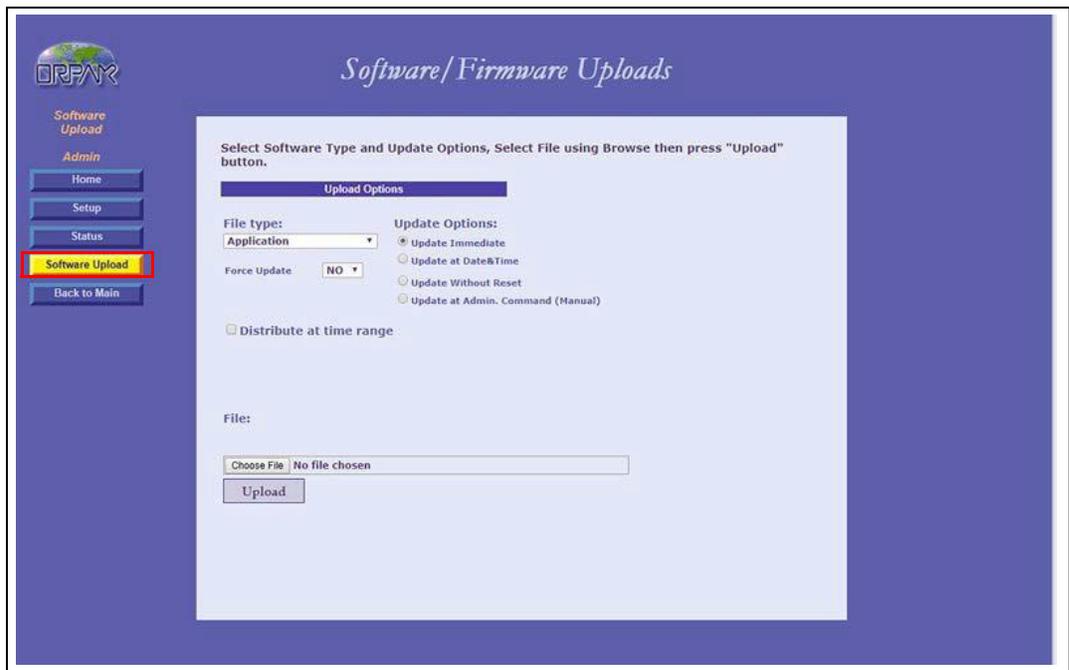
4.3 Upgrading the PRIME MiFare Pod Firmware

PRIME MiFare Pod firmware can be updated whenever a firmware update is released and provided to the user.

To update the firmware, proceed as follows:

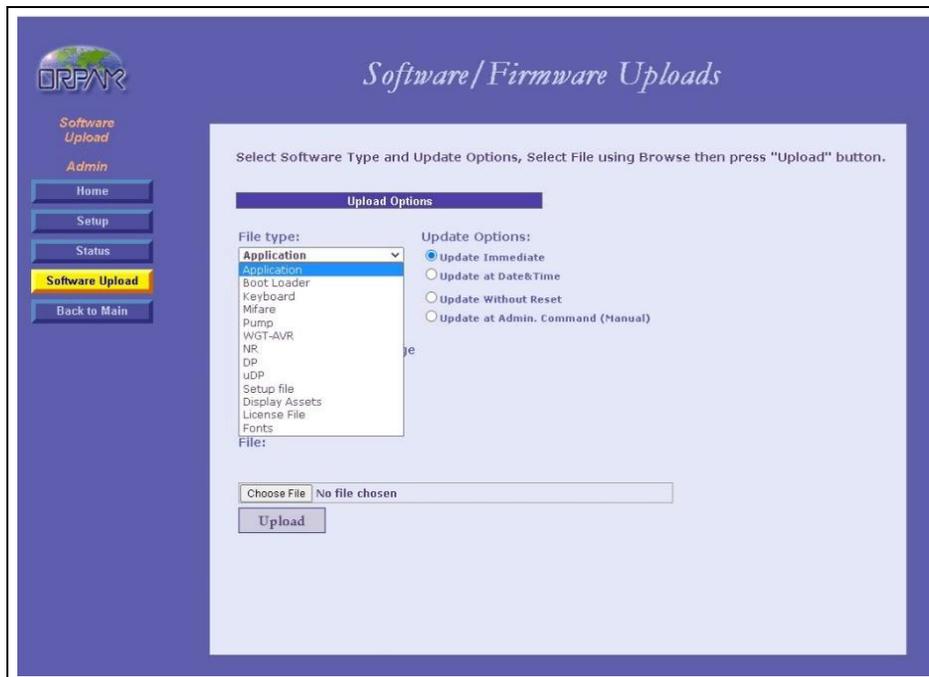
- 1 Browse to **Admin > Software Upload**. The following screen is displayed.

Figure 21: Software Upload Screen



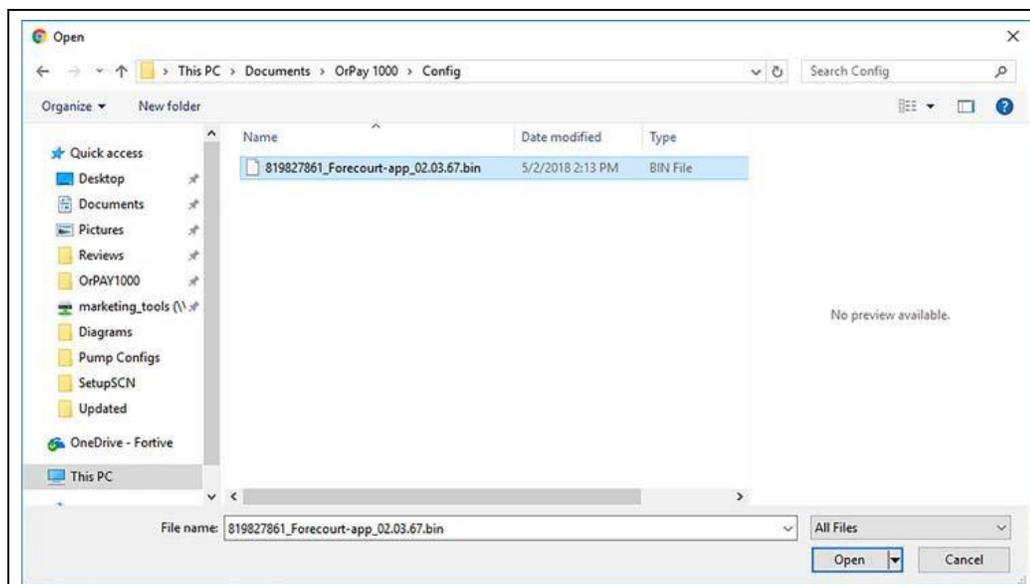
- 2 In the **File Type** drop-down list, select the file type that you want to upload.

Figure 22: File Type Drop-Down List



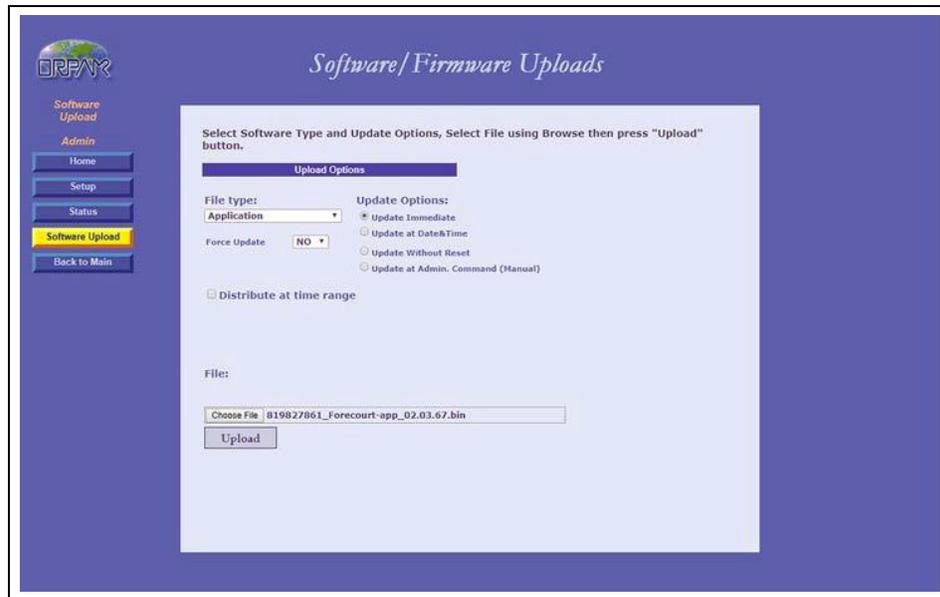
- 3 Click **Choose File** to select the updated software file. The following dialog box is displayed.

Figure 23: Choose File Dialog Box



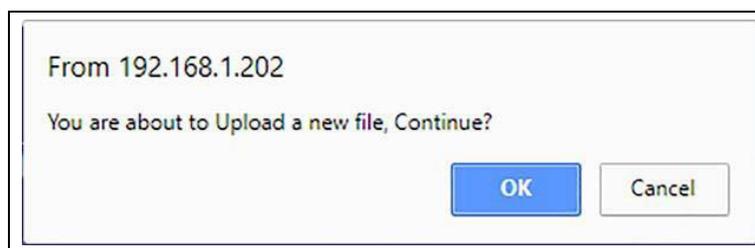
- 4 Select the file and click **Open**.

Figure 24: File Chosen



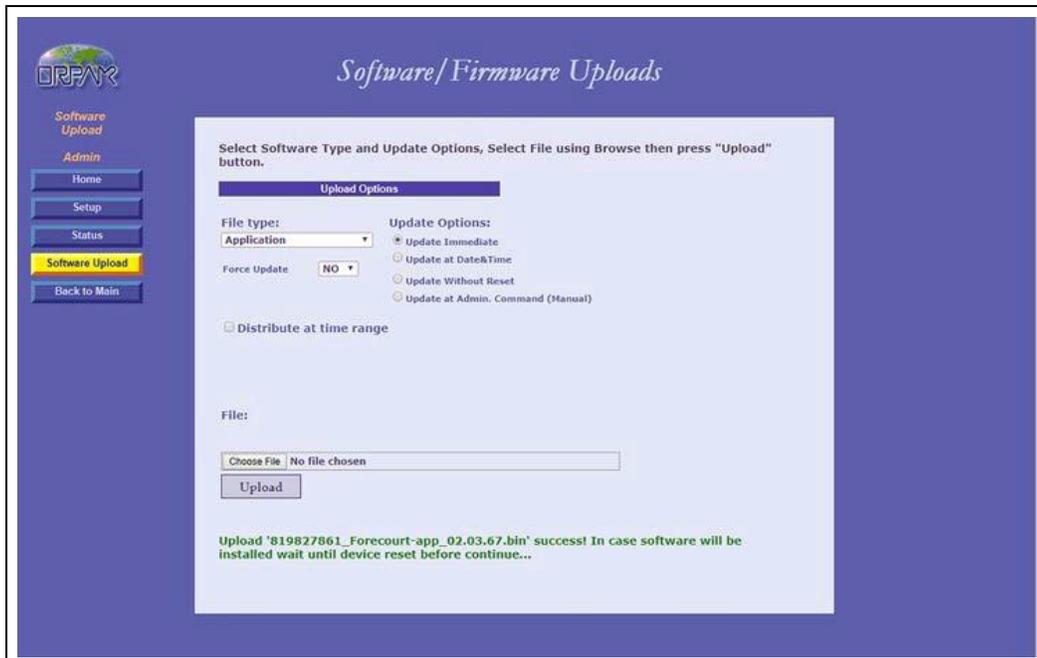
- 5 Select the **Upload Option** that you want to use. The Upload Options are as follows:
 - **Update Immediate:** Implement the update as soon as the file upload is complete.
 - **Update at Date & Time:** Enter the date and time (dd/mm/yyyy; hh:mm:ss) to implement the update.
 - **Update Without Reset:** Implement the update as soon as the file upload is complete without resetting the device.
 - **Update at Admin. Command (Manual):**
 - **Automatic:** Implement the update as soon as the file upload is complete.
 - **Manual:** Implement the update by clicking on the **Send** button.
- 6 Click **Upload**. The following dialog box is displayed.

Figure 25: Confirm Upload Dialog Box



- 7 Click **OK** to confirm and upload the file. The following message is displayed.

Figure 26: Software Uploaded Successfully



5 – Maintenance

5.1 General

This section contains guidelines for maintaining the PRIME MiFare Pod and troubleshooting options.

5.2 Cleaning

The PRIME MiFare Pod should be cleaned periodically to ensure proper operation.

The purpose of cleaning is to remove any dust or foreign body that may damage the reader and consequently prevent the completion of the tag acquisition process.

- Use a soft cloth dampened with water for daily cleaning.
- Take extra care when cleaning the display window, ensure that the cloth is clean. The window of the display should be cleaned before using the cloth on other parts of the terminal.

CAUTION

Do NOT use petroleum-based solvent cleaners as they may damage surfaces, making the terminal much harder to clean, and shorten the life of the parts.

5.3 Troubleshooting

The following table lists the recommended procedures for troubleshooting the PRIME MiFare Pod.

Table 2: Troubleshooting

No	Symptom	Troubleshooting Procedure	Recommended Action
1	Display is off	Check DC voltage power supply output.	Replace DC Voltage Power Supply.
		Check the proper connection between the power supply and PRIME MiFare Pod.	Reconnect the PS connector.
2	No communication between PRIME MiFare Pod and the HO PC	Check LAN connection between the PRIME MiFare Pod and the HO PC.	Replace the PRIME MiFare Pod.
3	Failed IP communication	Check the device address.	Correct the device address to the default provided.
		Check the IP address.	Correct the IP address to the default provided.



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