

Freedom Easy Pump

Verifone with Mako 6600 Setup Guide

First Data
Heartland
Sinclair



Freedom
ELECTRONICS

This guide provides detailed instructions on how to configure the Mako MNSP, Verifone Commander/RubyCi, FA80 Bridge, and the wireless access point for use with the Freedom Easy Pump.

Technicians must be VASC certified.

You will need a laptop with a functional ethernet adapter and wireless capability, and the Managers login for the Configuration Client.

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Freedom Electronics
800-761-9369

Verifone VASC
888-777-3536

Mako Networks Support
844-807-0307

First Data(Buypass)
Helpdesk 800-726-2629

Heartland Payment Systems
Helpdesk 800-767-5258

Sinclair Merchant Support
800-524-4799



1. Configure the Mako 6600

It is recommended to contact Mako Support one week before install to allow for pre-configuration. This can be done by an email to service@makonetworks.com and you will receive confirmation of completion.

Provide Mako the station information and proposed install date. You will be installing the Freedom Electronics Easy Pump using a Sound Payments Enterprise Template.

Note there are (3) possible configurations depending on site equipment:

Sound Payments 8 Port Switch Enterprise Template

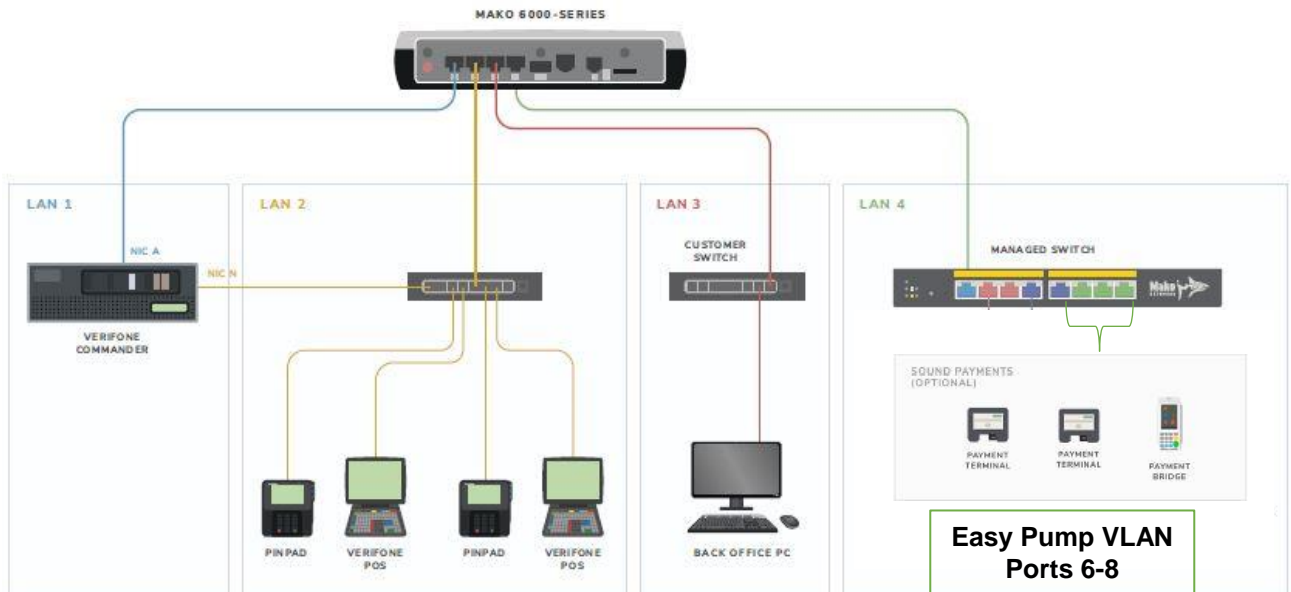
Sound Payments 24 Port Switch Enterprise Template

Sound Payments Legacy Enterprise Template (No managed switch)

For any Mako configuration issues, contact Mako Networks Support. You can also email NOC@makonetworks.com for immediate assistance.

Please refer to the Mako Networks Quick Installation Guide, if needed.

Sound Payments 8 Port Switch Template



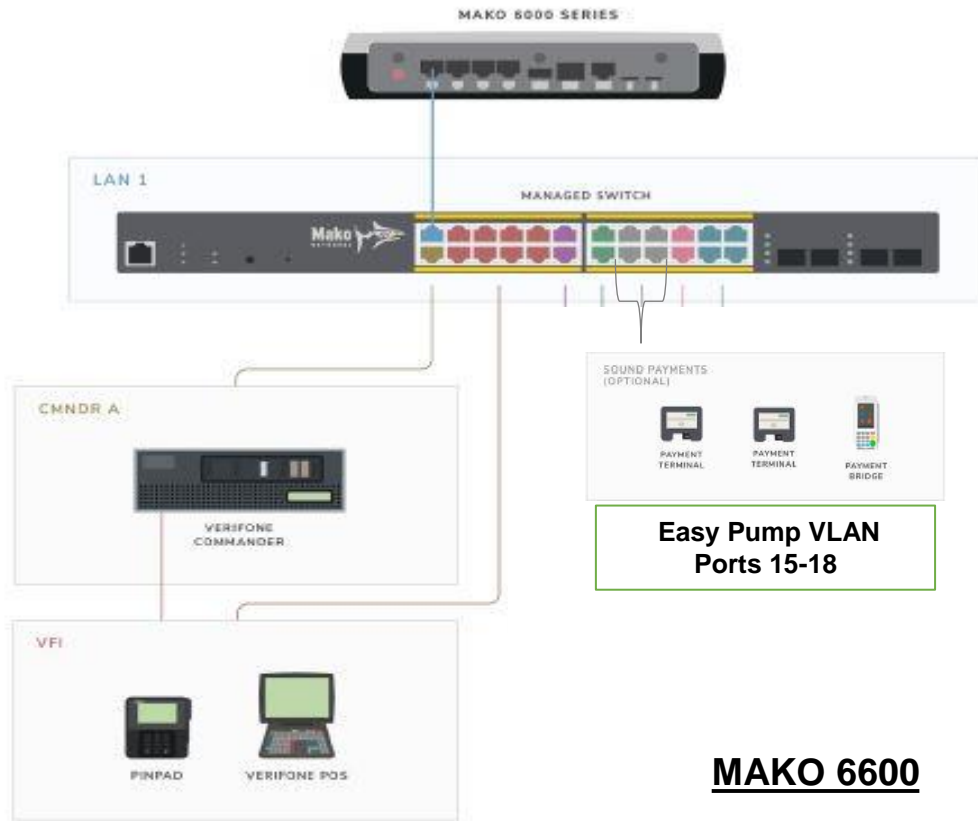
MAKO 6600

WAN 1 – INTERNET PROVIDER
LAN 1 – COMMANDER NIC A
LAN 2 – VERIFONE ZONE
LAN 3 – BACK OFFICE
LAN 4 – TRUNK TO SWITCH

MAKO 8 PORT SWITCH

PORT 1 – TRUNK
PORT 6 – FA80 BRIDGE
PORT 7 – WIRELESS ACCESS POINT

Sinclair Sound Payments 24 Port Switch Template



**Easy Pump VLAN
Ports 15-18**

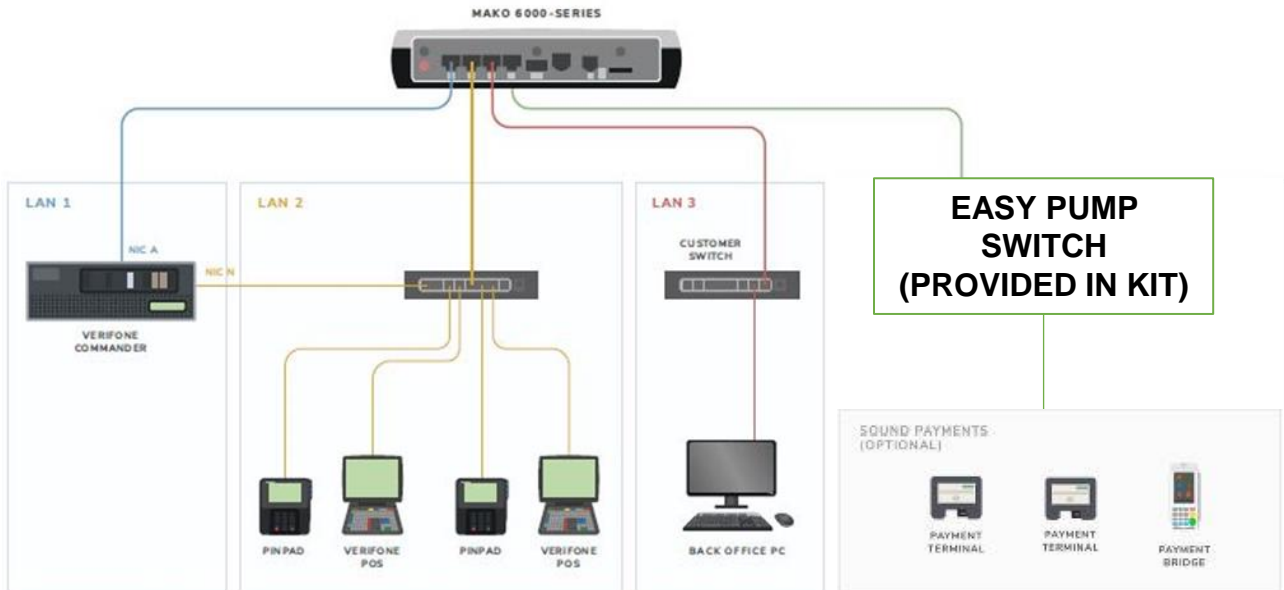
MAKO 6600

WAN 1 – INTERNET PROVIDER
LAN 1 – TRUNK TO SWITCH

MAKO 24 PORT SWITCH

PORT 1 – TRUNK
PORT 2 – COMMANDER NIC A
PORT 3-10 – VERIFONE ZONE
PORT 15 – FA80 BRIDGE
PORT 16 – WIRELESS ACCESS POINT

Sinclair Sound Payments Legacy Template (No managed switch)



MAKO 6000

WAN 1 – INTERNET PROVIDER
LAN 1 – COMMANDER NIC A
LAN 2 – VERIFONE ZONE
LAN 3 – BACK OFFICE
LAN 4 – EASY PUMP SWITCH

EASY PUMP SWITCH

WIRELESS ACCESS POINT
FA80 BRIDGE

2. Program the Commander/RubyCi

In this section we will setup the Commander to accept Mobile Payments for The Easy Pump.

Note: Always pull a backup before and after you perform the install.

Note: We highly recommend checking and/or replacing the battery at this time.

Note: You will be required to generate an OTP password for network changes.

Minimum Base 53 is required for Sinclair.

Minimum Base 51 is required for First Data and Heartland

1. Login to the Configuration Manager in the CSR Functions of the register, or by accessing the Configuration Client at the following address:

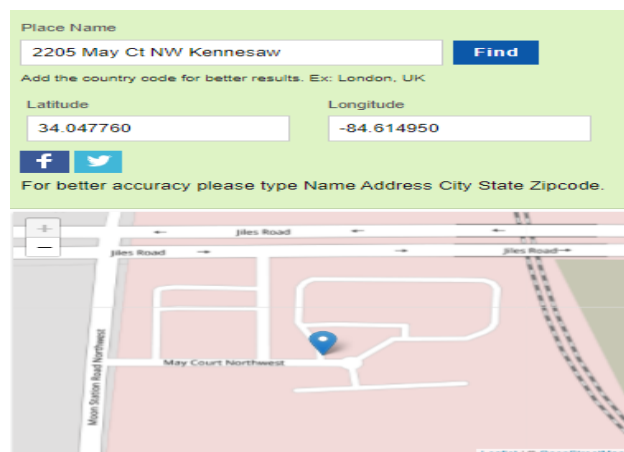
<https://192.168.31.11/ConfigClient.html>

Username: *Manager*

Password: ***current manager password***

2. Determine the site's Latitude and Longitude. There are many ways to do this, including using Google Maps. Here we use Latlong.net, after entering the street address you will find the coordinates.

latlong.net



Place Name
2205 May Ct NW Kennesaw

Add the country code for better results. Ex: London, UK

Latitude Longitude

For better accuracy please type Name Address City State Zipcode.

Map showing the location of 2205 May Ct NW Kennesaw, GA. The map includes labels for Jiles Road, May Court Northwest, and New Station Road Northwest. A blue location pin is placed on the property. The map is credited to Leaflet | © OpenStreetMap.

3. Navigate to Payment Controller > Mobile Payment Configuration > Site Mobile Configuration. See figure 1 on page 8.

Check “Accept Mobile Payments”

Enter the following and SAVE.

- Site Name: *Enter store name*
- Welcome message: *Welcome*
- Data Storage Time(in Days): *30*
- Site Address: *Enter street address*
 - Latitude: *Enter Latitude*
 - Longitude: *Enter Longitude*
 - Report: *Leave at default*

4. Navigate to Payment Controller > Mobile Payment Configuration > Host Configuration. See figure 2 on page 8.

Check “Enable Host”

Enter the following and SAVE:

- Adapter: *VFI Mobile*
- Program Name: *EASY PUMP*
 - Merchant ID: *mppa2-mer*
- Authentication Type: *Display Token*
 - Store ID: *mppa2-store*
 - Settlement Employee#: *5577*
 - Settlement Passcode: *633225*
- Phone Number: *Enter site phone number*
 - Address: *10.128.9.54*
 - Port: *4710*
 - Do *NOT* Check SSL Enabled
 - Heartbeat Frequency: *45*
 - Heartbeat Time Unit: *Seconds*
- Outdoor PreAuthorization Timeout (In Secs): *180*
- Site Initiated Loyalty: *Never Allow Site Entered Loyalty*



Site Mobile Configuration Host Configuration

Accept Mobile Payments

Site Configuration

Site Name

Welcome Message

Misc Configuration

Data Storage Time(In Days)

Site Address

Latitude

Longitude

Report Format

Figure 1 Site Mobile Configuration

Site Mobile Configuration Host Configuration

Enable Host

Host Configuration

Adapter

Program Name

Merchant ID

Authentication Type

Site Terminal ID

Location ID

Store ID

Settlement Employee Number

Settlement Passcode

Phone Number

Send Loyalty Details

1 - EASY PUMP

Network Configuration

Address(IPv4 Format/Domain Name)

Port

SSL Enabled

Heartbeat Frequency

Heartbeat Time Unit

Misc Configuration

Outdoor PreAuthorization Timeout (In Secs)

Site Initiated Loyalty

Add Delete

Figure 2 Host Configuration



5. Navigate to Store Operations > Payment Management > MOP.
See figure 3 on page 10.

Enter the following and SAVE:

- Select the MOBILE MOP position (position 012)
 - Change Name to: *EASY PUMP*
 - MOP Code: *28 – MOBILE*
 - Minimum Amount: *0.00*
 - Maximum Amount: *0.00*
 - Limit: *0.00*
 - Additional Receipts: *0*
 - Tender Code: *Generic*
 - Tender Sub Code: *Generic*
 - Check: *Allow Zero Entry and Allow Refund*

6. Navigate to Initial Setup > Local Area Network Configuration > Device Specific Routes. See figure 4 on page 10.

Select New

Enter the following and SAVE.

- Route Type: *Host*
- Destination: *10.128.9.54*
- Gateway: *192.168.31.31*
- Netmask: *255.255.255.240*
 - Service: *EasyPump*

7. Cycle power to the Commander/RubyCi.



MOP
Currencies
Fees
Tax Rates

Delete

Select MOP

- 001 - CASH
- 002 - CHECK
- 003 - CREDIT
- 004 - DEBIT
- 005 - MAN CRED
- 006 - IN-HOUSE
- 007 - MAN DEBIT
- 008 - FOODSTAMP
- 009 - LOTTERY
- 010 - DRIVE OFF
- 011 - COUPON
- 012 - EASYPUMP
- 013
- 014
- 015
- 016
- 017
- 018
- 019
- 020

Name:

MOP Code:

Minimum Amount:

Maximum Amount:

Limit:

#Additional Receipts:

Tender Code:

Tender Sub Code:

Options

Force Safe Drop

Open Drawer On Sale

Tender Amount Required

Cashier Report Prompt

Allow Zero Entry

Allow Without Sale

Allow Refund

Allow Change

Allow Safe Drop

Allow Money Order Purchase

Force Ticket Print

Figure 3 MOP

Device Specific Routes

Route Type	Destination	Gateway	Netmask	Service
host	10.128.9.54	192.168.31.31	255.255.255.240	EasyPump
host				Commander Console
host				VHQ
host				VHQ Fail Over
host				VeriCenter(VRSD)
host				Alt IP1 of VeriCenter(VRSD)
host				Alt IP2 of VeriCenter(VRSD)
host	192.30.100.118	192.168.31.31	255.255.255.255	Alt IP3 of VeriCenter(VRSD)
host	192.131.0.184	192.168.31.31	255.255.255.255	Commander Configuration Manager

New Route Config

Route Type:

Destination:

Gateway:

Netmask:

Service:

1-9 of 9

Figure 4 Device Specific Route

3. Install the Wireless Access Point

1. Using an ethernet cable, connect the Wireless Access Points LAN port on the PoE adapter to the appropriate port of the Mako or switch. See Mako diagrams for correct configuration.
2. Run an ethernet cable from the PoE port of the PoE adapter to the front of the store, where the access point will be installed.
3. Temporarily mount the Access Point inside the store nearest the dispensers.
Location is critical - See the Wireless Access Point Tips Guide available on the Freedom Electronics website. Mount it as high as possible and with the least number of obstructions to the dispensers as possible. The Access Point's wireless signal must reach the FIM-20's at each dispenser.
4. Power up the Access Point by connecting the PoE adapter to a power plug. We recommend using a conditioned power outlet, preferably a power receptacle protected with a UPS for the Access Point and all other equipment.
5. You should now have a wireless network named "EASYPUMP".
6. Download a WiFi analyzer app. for your laptop or smart phone, such as the free edition of NetSpot.
7. With the access point temporarily in place, walk around each dispenser and take note of the signal strength that you experience. We recommend a signal strength greater than -60dBm at each dispenser, but signals may vary.
 - Signal strengths above **-60 dBm** are recommended for proper operation.
 - Signal strengths between **-67 and -60 dBm** may work but could encounter issues.
 - Signal strengths below **-68 dBm** are generally unusable.

SIGNAL STRENGTH IS **VERY IMPORTANT** AND MUST BE VERIFIED.
8. Relocate or adjust the position of the access point as needed.
9. Once proper signals are met, permanently mount the Wireless Access Point.

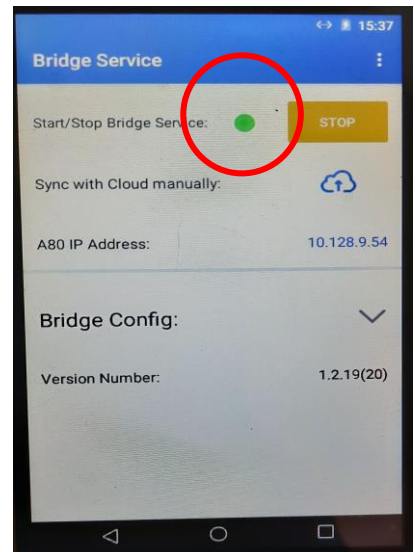
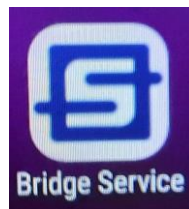
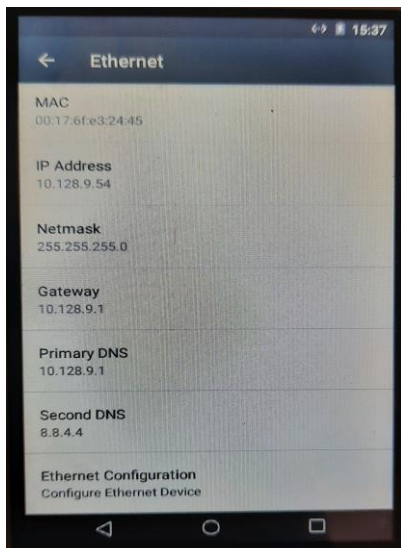


4. Program the FA80 Bridge

1. Using an ethernet cable, connect the FA80 Bridge to the appropriate port of the Mako or switch. See Mako diagrams for correct configuration.
2. Open Settings and configure: (Password: pax9876@@)
 - Disable Wi-fi
 - Disable Bluetooth
 - Enable Ethernet
 - IP Mode: Static
 - IP Address: 10.128.9.54
 - Netmask: 255.255.255.0
 - Gateway: 10.128.9.1
 - Primary DNS: 10.128.9.1
 - Secondary DNS: 8.8.4.4

Select Save and close settings.

3. From the FA80 Bridge desktop, open the Bridge Service Application. Password is the date: MMDDYYYY *Note: This may be tomorrow's date according to UTC.*
4. Select Start - The Bridge service will start and the indicator should turn Green.



5. Install Easy Pump Dispenser Kits

At this point, you are ready to install the dispenser kits.

Please follow the appropriate dispenser install manual available on the Freedom Electronics website.

Wayne Ovation Install Manual
Wayne Vista Install Manual
Gilbarco Advantage Install Manual
Gilbarco 300/500 Install Manual
Gilbarco 500S/700S Install Manual

We recommend installing a kit into the first dispenser and verify operations before moving onto any others.

The site will be able to run on dual systems, the new Easy Pump and the existing DCR's. This allows one dispenser at a time to be upgraded without affecting the other dispensers. This will require removing current DCR programming as you upgrade dispensers.



7. Remove DCR programming

1. Log into the Configuration Manager of the Commander/RubyCi.
2. Navigate to Forecourt > Fuel > Fuel Config – Pending > Fueling Positions.
See figure 5 on page 15.

Uncheck ‘DCR In Dispenser’ for each upgraded fueling position and SAVE.

3. Navigate to Tools > Managed Modules > Current Configurations > Host Names - sitecontroller > Select Module - DCR Driver > DCR Positions – Advanced Settings.
See figure 6 on page 15.

Remove the channel programming for each upgraded DCR Position and SAVE.

4. Initialize Fuel and DCR's.

The Easy Pump should now be operational at each upgraded fueling point.

Once all fueling points have been upgraded to
The Easy Pump, remove the DCR driver.

5. Navigate to Tools > Managed Modules > Current Configurations > Host Names – sitecontroller > Select Module – DCR Driver > DCR Channel 01 – Advanced Settings. See figure 7 on page 15.

*Remove DCR Family type
Remove Port Name
Uncheck Enable and SAVE*

6. Initialize Fuel and DCR's, including Drivers.



Options

<input type="checkbox"/> Auto Approval	<input type="checkbox"/> Auto Disapproval	<input type="checkbox"/> DCR In Dispenser
<input type="checkbox"/> First In First Out	<input type="checkbox"/> DCR Prompt Preset Amount	<input checked="" type="checkbox"/> Handle Up Calling
<input type="checkbox"/> Ignore Pump Error	<input type="checkbox"/> Pay At Pump Only	<input checked="" type="checkbox"/> Prepay Only
<input checked="" type="checkbox"/> Preset Postpay	<input checked="" type="checkbox"/> Preset Prepay	<input type="checkbox"/> Stacking
<input type="checkbox"/> View Buzzer Off		

Figure 5 Fueling Positions

Managed Modules

Current Configuration Pending Configuration Sys

Host Names

Select Module

DCR Positions

DCR Channel 01

DCR Positions

1	<input type="text"/>	2	<input type="text"/>	3	<input type="text"/>	4	<input type="text"/>
5	<input type="text"/>	6	<input type="text"/>	7	<input type="text"/>	8	<input type="text"/>
9	<input type="text"/>	10	<input type="text"/>	11	<input type="text"/>	12	<input type="text"/>
13	<input type="text"/>	14	<input type="text"/>	15	<input type="text"/>	16	<input type="text"/>
17	<input type="text"/>	18	<input type="text"/>	19	<input type="text"/>	20	<input type="text"/>
21	<input type="text"/>	22	<input type="text"/>	23	<input type="text"/>	24	<input type="text"/>

Figure 6 DCR Positions

Managed Modules

Current Configuration Pending Configuration System Resources

Host Names

Select Module

DCR Positions

DCR Channel 01

DCR Channel 02

DCR Channel 03

DCR Channel 04

DCR Channel 05

DCR Channel 06

DCR Channel 01

Enable

IP Enabled

Port Name

DCR Family type

Figure 7 DCR Channel