M1 Z-Wave Gateway Setup Guide

Revision 1.1

Introduction

This setup guide will guide you through the steps on setting up the Ness M1 Z-Wave Gateway.

Hardware Required

- M1XEP (Ethernet Module) with M1XEP firmware 2.0.42 or above. (101-215)
- M1 Z-Wave Gateway (101-296)
- Computer
- Active Internet connection

Notes

Ensure you are not connected with ElkRP after you have setup and programmed the M1. By being connected will stop all M1 protocols and the M1 Z-Wave gateway will not communicate to the M1. Wait approx 1-2 minutes after disconnecting from ElkRP before testing and using the M1 Z-Wave Gateway.

1.1 Setting Up the M1XEP

Before anything can be setup in the M1 Z-Wave Gateway, there is a few steps you need to check and setup in the M1XEP (Ethernet Module).

1. Open your M1 Account in ElkRP, and connect to your panel via the M1XEP.



2. Once connected, from the 'accounts details' page, click on the **M1XEP Setup** button.

File View Connecti	ion Sendifica Setap Help Al III 🔁 📑 🔯 📰	
Back Forward Up	Find Save New Connection Send/Rev Log Status Print View	Hulp
Account Details		
The second secon	X None ord Addecs Accurate [MetM1] None [Jostev] Address Color Address Color Color State Prevince Fulde Immes Poster Islamation Immes Paint Makey Name Makey Makey Immes Name Makey	System System type MM2 Holdware Vorsing [273 Hold teaces Vorsing [273 Honos Land State Finances Vorsing [2642018] Land Connector [2642018] Data Isonic [2642018] Data Isonic [2642018] Data Isonic [2642018] Base Isonic [2642018] System Labotone Honos Vorsing & MIMEP (* CLML) System URLIP (* 2018) 15 The finituation constraints (MCRP State)

3. Select the 'TCP/IP Settings' tab and ensure you have the IP address set as a static IP address. Also ensure you have enabled the non-secure Port. Keep note of both settings as you will need this for later on. If you make any changes, press the 'send' button at the bottom of the page to send the settings to the M1XEP.

ntroduction (<u>N.P./P.Settings</u>) Passwords { En Device Name (<u>Mini M1</u> Used c If the M1XEP will be assigned an IP /ddress b	nail \Central Station \Dynamic DNS \Time Server \Audio System \M1Cloud \ uring the "Find" process to help identify M1XEPs if there are more than one on the same network. ra DHCP server, select "Assigned an IP address." To assign a fixed address, select "Use a static IP
address." In most cases, it is acceptable to use gateway. However, if you decide to choose a s ISP for these details.	DHCP which automatically does all the work of setting up the network ID, subnet mask, and tatic IP address, you will need to manually complete all these fields. Consult your IT professional or
C Assigned an IP address via DHCP Use a static IP address. IP Address 192158015	Image: The secure Port Image: Third-party devices use the non-secure port for unencrypted communications Tor security reasons, this port should not be mapped outside the local network. If it is not needed, it should be disabled.
Subnet Mask 255 . 255 . 255 . 0 Default Gateway 192 . 168 . 0 . 1	Secure Port ElkRP and some third-party devices use the secure port for encrypted communications. If you intend to access the M1 through the Internet, this port should be mapped via a router to the outside.
Obtain DNS automatically Test DNS Specify DNS Addresses to use: Primary	Discovery Discovery Discovery Discovery of MIXEP for AMX and Control4 systems AMX and Control4 systems
Auto-DNS available on M1XEP firmware ver 1.	3.20 and later only. [Test DNS] works on ver 2.0.18 and later only.
	Reboot Send Receive Find Close

- 4. Once the M1XEP settings have been confirmed and sent to your panel, close the M1XEP setup screen. (Don't disconnect from the panel yet).
- 5. Ensure your M1XEP is running firmware version 2.0.42 or above.

ection Send	i/Rcv Log	Status Pri	int View Help					
	Send All							
	Set Date/Ti	me from PC						
	Receive All		0)	/stem				
m	Receive Lo	3		System Type	MIG			
_	Check For	Conflicts		Hardware Version 🛛	0.13			
	Enroll/Und	ate Control and [) evices	Boot Version	3.3.6			
	- Chrony Opd	ate control and L	remeta	Firmware Version	5.3.10			
					חח			
	Enroll/Updat	e Control and De	evices					
	Enroll/Updat	e Control and De	Hardware Ver	Boot Ver	Firmware Ver		Additional Information	
te/Province	Enroll/Updat Address 4	e Control and De Model M1KPNAV	Hardware Ver 413	Boot Ver 102	Firmware Ver 1 0 32	Name: Navigator	Additional Information r Keypad	
te/Province	Enroll/Updat Address 4	Model	Hardware Ver 4 () * * *	Boot Ver 107 * INPUT EXPA	Firmware Ver 1032 NIDERS (BUS TYT	Name: Navigator 16 2) * * * *	Additional Information r Keypad	
te/Province	Enroll/Updat Address 4 2	Model Model M1KPNAV M1XRF2G	Hardware Ver 40 * * * 1.4	Boot Ver 10.7 * INPUT EXTR 1.0.4	Firmware Ver 1 0.32 NIDERS (BUS TYT 1.0.20	Name: Navigator E 2) * * * *	Additional Information r Keyparl *	
te/Province	Address 4 2	Model Model M1KPNAV M1XRF2C	Hardware Ver 4 0 * * * 1.4	Boot Ver 102 * INPOT EXPA 1.0.4 • OOTPOT EXPA	Firmware Ver 10.32 NDERS (BUS TYT 1.0.26 NDERS (BUS TYP	Name: Navigator 12 2) * * * *	Additional Information r Keyparl *	
rte/Province	Address 4 2 2	Model MikPNAV MIXRF2C MIXOV(R)	Hardware Ver 40 1.4 0.2	Boot Ver 10.7 * INPOT EXD2 1.0.4 * OUTPUT EXD2 2.0.3 CEDIAL DOWN	Firmware Ver 10.32 NDERS (BUS TYT 1.0.26 NDERS (BUS TYP 1.2.13 YEANNERS (JUS 5)	Name: Navigator	Additional Information Keypari	
rte/Province	Address 4 2 2 2	Model MikPNAV MIXRF2C MIXOV(R)	Hardware Ver 40 * * * 1.4 0.2 • • • 0.3	Boot Ver 102 * INPUT EXEP 2.0.3 SERIAL PORT E 1.0.1	Firmware Ver 10.32 NDERS (BUS TYT 1.0.26 NDERS (BUS TYT 1.2.13 XXPANDERS (DUS T 1.0.42	Name: Navigator E 2) * * * * 23) ^ ^ ^ ^ 25 3) ^ ^ ^ ^	Additional Information (Kaypard * *	
rs Email Ad	Address 4 2 2 2	e Control and De Model M1KPNAV M1XRF2G M1XDV(R) M1XSP	Hardware Ver 4 () 1.4 0.2 0.3 * *	Boot Ver 102 * INPUT EXT2 A OUTPUT EXT2 2.0.3 SERIAL PORT E 1.0.1	Firmware Ver 10.32 NDERS (BUS TYT 1.0.26 NDERS (BUS TYT 1.2.13 XXPANDERS (DUS T 1.0.42 NDET EXDANDER	Name: Navigator	Additional Information Keypad	

1.2 Setting up the M1

Before the M1 Z-Wave gateway will detect any devices from the M1, the M1 panel needs a few settings set first.

Zones

Select the + icon next to 'Zones' from the side menu in ElkRP, and choose the expander from the list to see the zones on it.

🔶 🔶 💼 🏚	l
Back Forward Up Fir	ł
Zone 001	l
Folder Items X	l
Account Details	l
🕂 🧟 Users	l
🕂 🖪 Areas	l
庄 🚍 Keypads	l
E. J. Zones (Inputs)	l
⊟	l
Ja Zone 001	l
	l
11 Zone 003	l
20ne 004	I
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	I

Select the zone from the list and ensure it has a name. If the zone has no name (or starts with a space) then it will not display and won't work with the M1 Z-Wave Gateway.

Ensure the zone definition is not set to disabled.

Zone 001	
Folder items × Account Details Account Details	Zone: 1 Name Configuration Definition 00 = Disabled Type 0 = EOL Hardwire / Wireless Area 1 Area 1 Silent alarm Swinger shutdown Use dialer delay Periodic trip Listen in Fast loop response Bypassable Enable chime Funce annable In cross zone puol

Tasks

Select 'Tasks' from the 'Automation' menu to view the Tasks in ElkRP.

A task is like a macro and is used in the M1 Rules.

Only the tasks that have a name and have the 'Show' box ticked will display and can be used in M1 Z-Wave Gateway.

Tasks				
Folder Items X				
	Task	Name	Show	Voice Description
🗄 🚾 Users	1	Task 01	•	
	2	Task 02		
Teypads	3	Task 03		
Wireless Setup	4	Task 04		
Cutoff Timers	5	Task 05		
Globals	6	Task 06		
Telephones	7	Task 07		
Automation	8	Task 08		
	9	Task 09		
	10	Task 10		
Sunrise/Sunset	11	Task 11		
	12	Task 12		
Gustom Settings	13	Task 13		

Lighting

Name

All the lights you want to use in the M1 Z-Wave Gateway needs to have a name. Ensure that the light doesn't start with a space otherwise it won't display or work with the M1 Z-Wave Gateway.

Format

Set the light format to 'Standard'.

Туре

Set the Light type to 'On/Off switch'

Opt / Show Boxes

Tick both of these boxes for the lights that you want to use in the M1 Z-Wave Gateway.

(Voice Description can be left blank)

Lighting								
Folder Items ×								
- 🚍 Account Details	Device	Name	Format	Туре	Opt	Show	Voice Description	▲
🖻 🙀 Users	1 (A1)	Front Light	Serial Expander*	On/off switch	R		1	
🗄 📶 Areas	2 (A2)	Back Light	Serial Expander*	Dn/off switch	1	1	}	}
🕀 🧮 Keypads	3 (A3)	Carport Light	Serial Expander*	■ On/off switch ■	V		}	
I+I A Zones (Inputs)	4 (A4)	Office Light	Sertal Expander *	On/off switch	•		}	
Wreless Setup	5 (A5)	Garden Light	Senal Expander*	Dn/off switch	V	1		
	6 (A6)	Kitchen Light	Serial Expander *	■ On/off switch ■	v			
	100	Pool Room Light	Serial Expander *	■ On/off switch ■		T		
H 88 Communicator	8 (AB)	Gym Light	Serial Expander *	🔳 On/off switch 🖃		V		
Automation	9 (A9)	Tennis Court	Serial Expander *	I On/off switch I			İ	
- 🗹 Tasks	10 (4.10)	Theater Light	Serial Expander*	On/off switch				
🔋 Lighting	11 (/\11)			• •				
- 🧕 Outputs	12 (A12)			• •				
E-fill Voice	13 (A13)			<u> </u>				

Outputs

Give an output a name that you want to use in the M1 Z-Wave Gateway. Ensure it does not start with a space else it won't work and won't display.

Ensure you tick the 'show' box for the outputs you want to use.

Outputs				
Folder Items ×				
- Account Details	Output	Name	Show	Voice Description
E 🐼 Users	1	Output 001		
🗄 🔣 Areas	2	Output 002		
🗄 🔚 Keypads	3	Output 003	V	
📋 🚚 Zonca (Inputa)	4	Output 004	V	
Wireless Setup	5	Output 005		
Cutoff Timers	G	Output 00G	v	
	7	Output 007	V	
	8	Output 008		
	9	Output 009	V	
Tasks	10	Output 010		
📑 Lighting	11	Output 011		
- Outputs	12	Output 012	~	
	13	Output 013	2	

Globals

Make sure all 'Serial port 0 transmit options' is ticked under the Globals 'G29-G42 Special tab'.



Disconnect from ElkRP, once the above is complete.



1.3 Setting up the M1 Z-Wave Gateway

Make sure you only have 1 network adaptor enabled and connected.

Ensure this network connection has an activate internet connection. Without an internet connection you won't be able to setup the M1 Z-Wave Gateway.

· · 小 😟 > Control P	nel > All Control Panel Items > Network and Shari	ng Center	v Ö	Search Control Panel	3
Control Panel Home	View your basic network information	and set up connections			
Channe adapter settings	View your active networks				
Change advanced sharing settings	Ness Wi-Fi Public network	Accessitype: Internet Connections: All Wi-Fi (Ness Wi-Fi)	}		
)		
	Change your networking settings				
	Set up a broadband, dial-up, or VPN co	nnection; or set up a router or access point.			
	Troubleshoot problems				
	Diagnose and repair network problems,	or get troubleshooting information.			

Plug in the M1 Z-Wave Gateway into the network.



Open a web browser and enter in <u>home.getvera.com</u>.

Sign into your account. If you don't yet have an account click on the blue box to sign up.



Click on the 'Add another controller' button.



Select 'VeraEdge' from the list.



If not done already ensure the LAN cable is plugged into M1 Z-Wave Gateway and power it up.



Once your device is powered up, it should then automatically display in the list in the web browser.

Click on your device to set it up.



Do not disconnect your gateway while it's being setup. Click on the 'Next Step' at the bottom of the page.



Once the M1 Z-Wave gateway is ready, click on the 'Go to dashboard' button up the top right.



Click on the 'Connect' button next to your controller. This will connect to your controllers (M1 Z-Wave Gateway) local IP address.

			Aaron Kingsley 🤝
Your Controllers			
<u> </u>		WAG I	
50106790			
Connection OK			
			Advanced
		and the second second	oher Controller
		+ Add An	
		- Add An	
	22	- Add An	1.00
	22	- Add An	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	22	- Add An	2.000000

Follow the wizard to setup your controller.



1.4 Setting up the M1 Plug-in



Select 'Apps' > 'Install Apps' from the side menu.

Jettings	
Apps	0
My apps	>
Install apps	>
Develop apps	>

Search for the app **Ness M1** then click on the 'details' button.

Dashboard	>	Install anns	
Devices	>	inistan apps	
Cameras	>	(Ness M1	Sear
Scenes	>		G
Energy	+		<u> </u>
Settings	+		
Apps	•		
My apps	>		
install apps	>		
Develop apps	>		
Learn & Account Infe	+		

Click on the 'Install' button to install the plug-in.

Dashboard	>	Ness M1	< Back	
Devices	>	Plugin for the Ness M1		
Cameras	>			
Scenes	>	HTDLE	11Ba	
Energy	+			
Settings	+	Additional Information		
Apps	•	Industry 2018-04-16-04-05-41		-
My apps	>	Current Version: 3.3.		_
install apps	>	Current Person: 3.3	Confirmation required	×
Develop apps	>		Are you sure you want to install this app?	
	1420			

This will download and install the plug-in. It can take approx 2 minutes to complete. If it sits on the 'Config: Start configuration' message for longer than 5 minutes, then refresh the web page.



After the plug-in is installed, click on select 'Apps' > 'My Apps'.



Now that the Ness M1 Plug-in is installed, Click on the 'Create Device' button.

	1M 			20°C 🌞 Thu 5:00:54 Pi	И
Dashboard	>	Ness M1	<	Back	
Devices	>				
Cameras	>	Uninstall			
Scenes	>	Additional Information			\sim
Energy	+	App Id : 9051			-
Settings	+	Current Version 1			
Apps	•	Latest Version N/A			
My apps	>	Auto Update			
Install apps	>	There are no devices created by this plugin.			
Develop apps	>	Create device Update App			
Users & Account Info	+				>

Select 'Devices' from the side menu. You will now notice a new device from the 'No Room' sub section called Ness M1. Click on the right arrow next to this to configure it.

Dashboard	>	View by:	Room
Devices	•	Click + to calert favoritar	
Cameras	>		
Scenes	>	No Room	
Energy	+		*
Settings	+	Ness M1	>
Apps	+	Clear	
Users & Account Info	+	Ness Alarm Panel	
Services	+	Aaron Office	
Login			*
		SmarrSwitch 6	

Click on 'Advanced' from the list.

Smarter Home Control				thu 50
ashboard	>	Back		
vices	$\mathbf{\bullet}$			
meras	>		Ness M1	
enes	>		Assigned to room.	
ergy	+		Please choose a room	Ŧ
ettings	+		Save Cha	nges
ips	+			
sers & Account Info	+	Control		
ervices	+	Advanced		
orin		Iroubla		

Without modifying or changing any other settings, enter in your M1XEP IP address, followed by a colon (:) and then the M1XEP non-secure port, into the 'IP' field in the web browser.

Control Ba	ack	
device #115		M1XEP Setup
Params Variables	New service Commands	Introduction TCP/IP Settings Passwords Email Central Station Dynamic DNS Time Server Audio System M1Cloud Device Name Training Room M1 Used during the "Find" process to help identify M1XEPs if there are more than one on the same network.
name	Ness Alarm Panel	If the M1XEP will be assigned an IP Address by a DHCP server, select "Assigned an IP address." To assign a fixed address, select "Use a static IP address." In most cases, it is acceptable to use DHCP which automatically does all the work of setting up the network ID, subnet mask, and gateway. However, if you decide to choose a static IP address, you will need to manually complete all these fields. Consult your IT professional or ISP fee these activities and the set of the set.
device_type altid	urn:schemas-micasaverde-com:device:Nes	C Assigned an IP address via DHCP C Assigned an IP address IP Address IP Address IP 2. 168.0.251
ip	192.168.0.251:2101	Subnet Mask 255.255 255.0 Default Gateway 192.168 0 .1 260 + ElkRP and some third-party devices use the secure port for encrypted communications. If you intend to access the M1 through the Internet, this port should be mapped via a router to the outside.
mac manufacturer	92.168.0.251 <mark>:2101</mark>	C Obtain DNS automatically
model		Auto-DNS available on M1XEP firmware ver 1.3.20 and later only. [Test DNS] works on ver 2.0.18 and later only.
id_parent	0	Reboot Send Receive Find Close ElkRP -> M1 M1 -> ElkRP

Then press the 'back' button up the top of the page.

tovico	#11E		
ievice.	#115		
Params	Variables	New service Commands	
ame		Ness Alarm Panel	
evice type		urn:schemas micasaverde com:device:Nes	
lcid			
		400 459 0 064-0404	

Click on the 'Save Changes'

Dashboard	>	Control Back		
Devices	⊘			
			Device name:	
Cameras	>		Ness Alarm Panel	
Scenes	>		Assigned to room:	
Energy	+		Please choose a room	
0/				Couro Chang
Settings	+			Save Change
Apps	+			

Click on 'Settings' > 'Net & WiFi' from the side menu.

> >
>
>
>
>

Click on 'Reboot from along the top.

Troubleshoot network	Reset to default network settings Reboot
Internet access	
Internet access is ok.	

You need to wait approx 2-5 minutes for the gateway to fully reboot and power up. All the LEDs on the unit should be lit up once it's ready to be used again.



Once M1 Z-Wave Gateway has rebooted, click on ' devices' from the left side menu. The devices that have been discovered from your M1, it will automatically display on the screen.

							19°C 溢
Dashboard	>	View by-		Room Type	List		
Devices	Ð	Click 🛫 to select favorites				+	Add Device
Cameras	>						
Scenes	>	No Room					-
l nergy	+		*		*		*
Settings	+	Ness Output 3: Outpu.	()	Ness Output 12: Outp		PLC 4: Light04	
Apps	+	Ť	OFF	Ť	OTT	Ť	OIT
Users & Account Info	+		*		*		*
Services	+	Ness Output 4. Outpu	()	Ness Output 13: Outp	()	🖤 РІСЬ Ціфтов	()
Login			OFF	Ŧ	OFF		OFF
			*		*		*
		Ness Output 5: Outpu	OUL >	Ness Curpur 1/I- Ourp		PI C 6-	OTT >
			*		*		*
		Ness Output 6. Outpu		Ness Output 15. Outp		Ness Keypad Sensor 7	20 °C >

1.5 Creating an Scene

A scene is similar to the M1 rules engine.

You can write a scene when a M1 light turns on, then turn the Z-Wave light on:



Or, another example..

When the M1's PIR triggers then turn a Z-Wave light on.



The scene is written in the M1 Z-Wave gateway and not in the M1.

To create a scene, click on the Scene from the list on the left.

Dashboard	,
Devices	>
Cameras	>
Scenes	Ø
Energy	+

Next, click on the 'Add Scene' button like shown below.



Click on 'Select a device', and then select the device you want to use as a trigger.

For example, if you want a Z-Wave light to turn on when a M1 light turns on, then you would need to select the M1 Light from this list. (This acts as a 'Whenever' trigger)

telp for scene creation		
		Back to Scene List
Step 1: Select a Trigger		
elect a device that will trigger activation of this scene.		
		0
Device	Schedule	Manual
Whenever the		
Select a device		0

Click on 'A device is turned on or off'.

Whenever PLC 1: Light01	
A device is turned on or off	\bigcirc
Energy usage goes above	\bigcirc
Energy usage goes helow	\bigcirc

You then have the option to select when the device turns on or turns off from the drop down box. Choose the one you require and then click on the 'Validate' button down the bottom of the page.

Whenever PLC 1: Light01	
A device is turned on or off	
Which mode \square Whenever the PLC 1: Light01 is turned on \checkmark	

Click on the 'Next Step' option at the bottom.

	Device Trigger Whenever the PLC 1. Light01 is turned on	J	L	Ĩ
device				

Select the 'Select Device' option.

What do you want to have happen?	
Select Devices	0
dd delaved action	-

This will give you a list of all your devices, including the M1 and Z-Wave devices.

Choose the device you want to control.

For Example, if you want the Z-Wave light to turn on when the M1 light turns on then you would select the Z-Wave device from the list. (This acts as a 'Then' trigger)

In my example I want to turn a Z-Wave light on, so I would select the Z-Wave Light from the list. Then click on the Next button from the bottom of the page.



Since I am controlling a light, this allows me to choose what state I want the light to be as well as the color and the dim level. Once you have selected the options for the device you have selected then click on Validate.

Z-Wave Light		
	100%	

Then click on the 'Next Step' button.

Step 2 ⁻ Device Actions	
What do you want to have happen?	İ
Immediately Z-Wave Light Level 100% (1 more)	>
Add delayed action	+
Next Step	٥

The last step has some advance features.

Since we are controlling the M1 Z-Wave gateway device with the M1, you can leave the fields as is, and just give the device a name at the bottom of the screen.

Once done click on 'Finish'.

When Lam in any mode	
When this scope pupe	
when this scene runs	
Notify these users	(
Also, execute the following Luup code:	
No Luup Code defined	
Advanced Editor	
Select Room	
Room Name: No Room 🔻	
Name Your Scene	
Name: Untitled Scene	

You can now test this new scene by clicking on the icon next to the scene you just created, or simply triggering the M1 function which triggers the Z-wave device. Note, you may need to wait approx 10 seconds after pressing the finish button from above, while it saves the scene to your M1 Z-Wave gateway.

If you created a scene to turn the device on then you would also need to write another scene to turn it off.

For Example, if you just created a scene to turn on a Z-Wave light when the M1 light turns on like:

Scene 1:



Then you would need to create another scene in the M1 Z-Wave gateway to turn the Z-Wave light off when the M1 light turns off.



User Created Scenes	Last Run	Next Run	Run	Modify	Remove
No Room					
Kitchen Light OFF [id: 3]	22-06-2018 11:21:49 AM	_	4	2	â
Kitchen Light ON [id: 2]	22-06-2018 11:21:27 AM	_	Þ	Q	E

Additional Information:

Customer Service

Phone:1300 551 991 (M-F 8:30am - 5:00pm)Email:customerservice@ness.com.auYouTube:www.youtube.com/nesscorporation