Controlling the ezOutlet5

Tech Note MSNTN03

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Date	Comments
Jan 31, 2025	Updated for firmware EST.4234
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Set 10, 2022	Added API min firmware version notice
Apr 12, 2022	First release

This TechNote Applies Only to the ezOutlet5 Models:

EZ-72b

Introduction

The ezOutlet5 from Mega System Technologies, Inc ("MegaTec") is designed to automatically power-cycle any AC powered device when Internet connectivity is lost. Its AC power outlet can also be reset manually or via scheduled actions.

There are 4 ways to access and control the functionality of the ezOutlet5:

1. ezDevice smartphone app
2. Cloud4UIS.com web service
3. The ezOutlet5's internal web server
4. A REST-ful API for HTTP commands

1. ezDevice Smartphone App

Download and install the free ezDevice app for iOS from the Apple AppStore or for Android from Google Play.

Launch the ezDevice app and create a new account. This same account information will be used for the Cloud4UIS.com web service (see page 4).

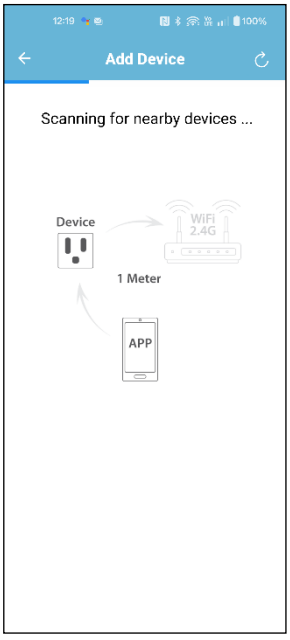
ezDevice uses Bluetooth to scan and locate your ezOutlet5 devices. Hold your phone within 1 meter (3 ft) of the ezOutlet5 and tap the (+) sign icon on the upper right side of the screen to add a new device to your list.

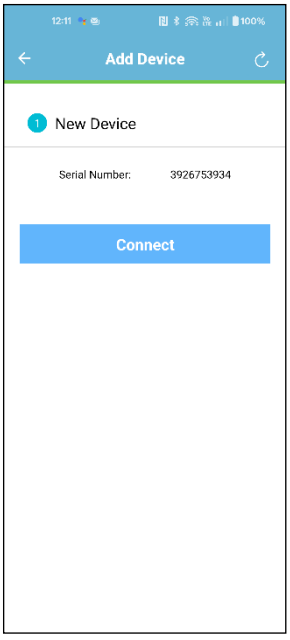
Tap the model of the product you wish to locate (EZ-72b). ezDevice will scan for all ezOutlet5's. If one is found, its serial number will be shown. Tap the Connect button to begin the add process.

If the ezOulet5 does not have a wired Ethernet connection to your network, ezDevice will prompt for the WiFi access point name (SSID) and password for your WiFi network. If successful, the ezOutlet5 will be added to your Cloud4UIS account and to the ezDevice app.

NOTE: The WiFi SSID and Password are case sensitive.

Tap the ezOutlet5 in the list of devices to change settings.





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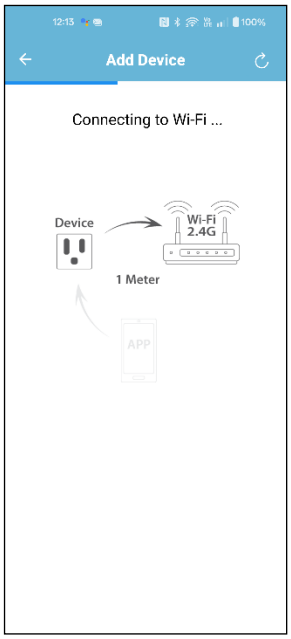
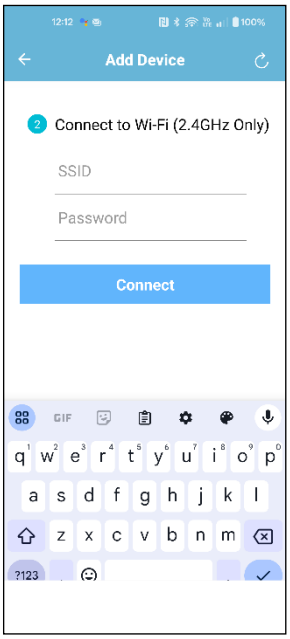
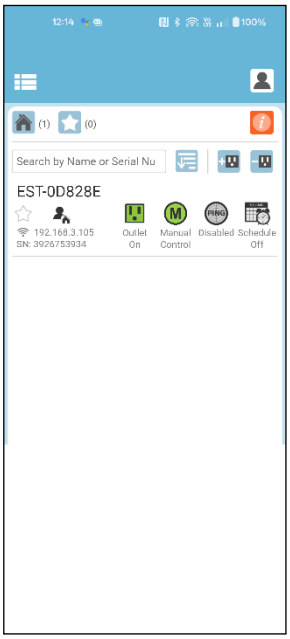

Add Device
Connecting to Wi-Fi ...
Device
Wi-Fi 2.4G
1 Meter
APP


Add Device
Connect to Wi-Fi (2.4GHz Only)
SSID
Password
Connect


Search by Name or Serial Nu
EST-0D828E
192.168.3.105
SN: 3926753934
Outlet On
Manual Control
Disabled
Schedule Off


EST-0D828E
Outlet
Connection Status
Response Time
Data refreshes every 5 minutes.
Information
Wi-Fi Connection
Stable
WAN IP
67.186.16.14
Wi-Fi IP
192.168.3.105
LAN IP
Serial Number
3926753934
Model
EZ-72b
Firmware Version
EST-4234

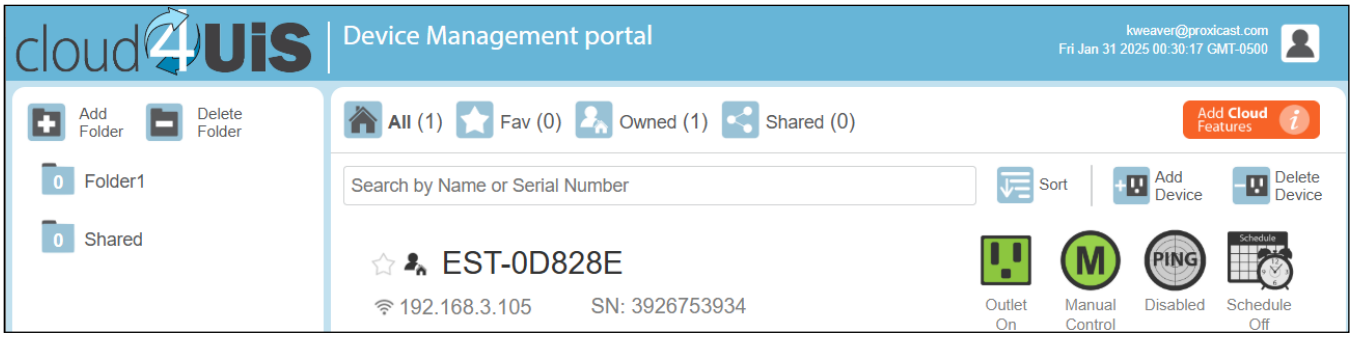
2. Cloud4UIS.com Web Service

Open the Cloud4UIS.com web site using any web browser:

http://Cloud4UIS.com

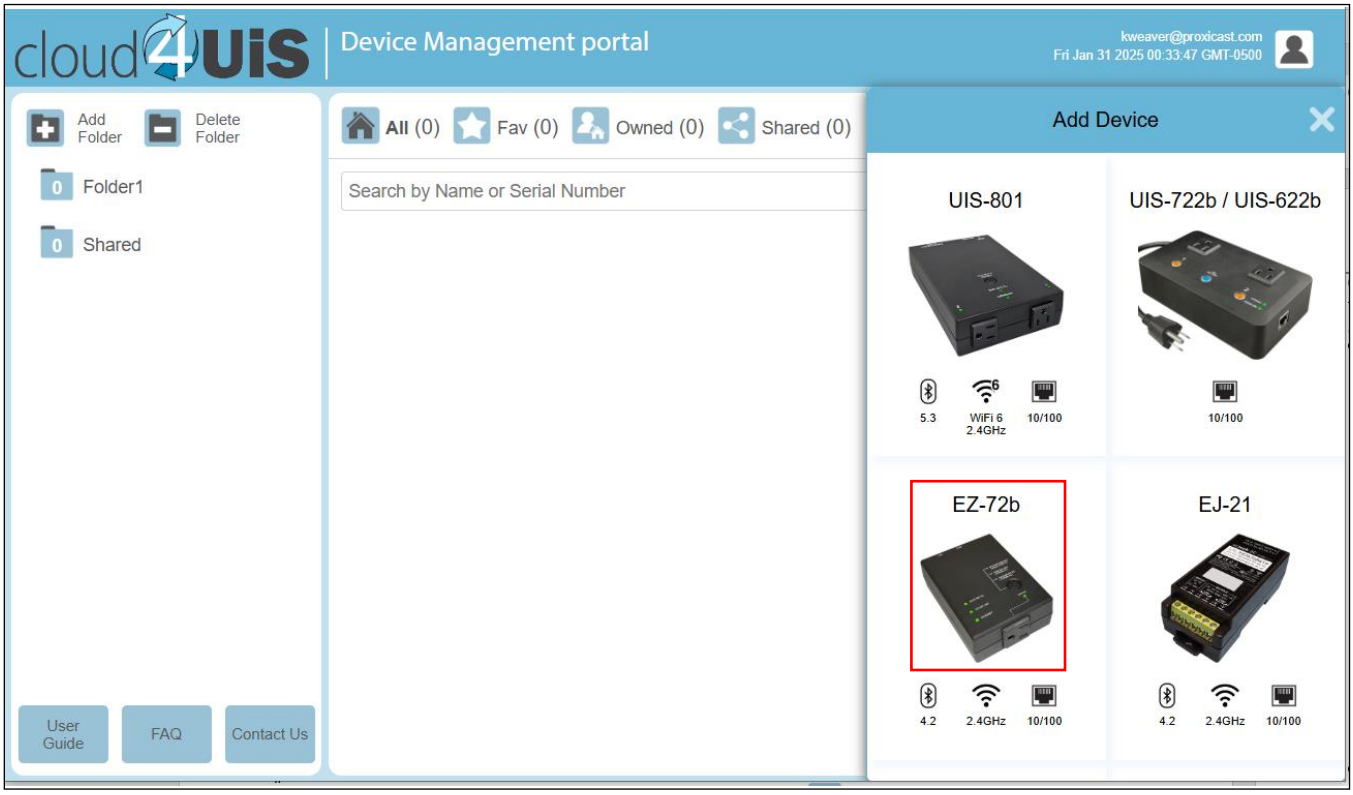
If you do not yet have an account, create one on the site. If you previously created an account using ezDevice, use the same login credentials for Cloud4UIS.com. The basic Cloud4UIS service is free, with optional paid services offering additional features.

If you used ezDevice to add devices, they will appear in your Cloud4UIS account automatically. You can use Cloud4UIS to add wired Ethernet devices by their serial number.



If you are adding a device for the first time, click the **Add Device** icon 

in the upper right corner to open the Add Device screen.



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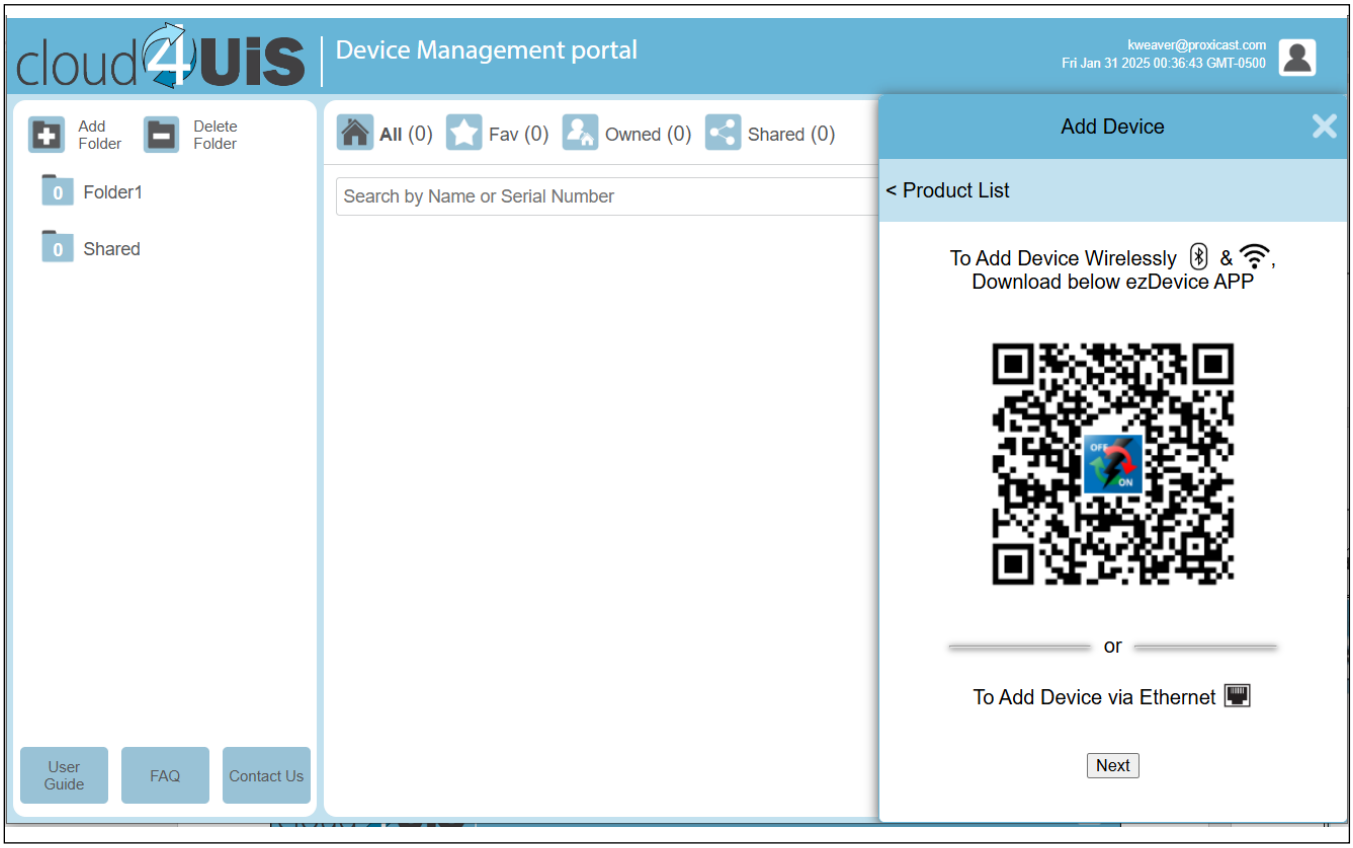
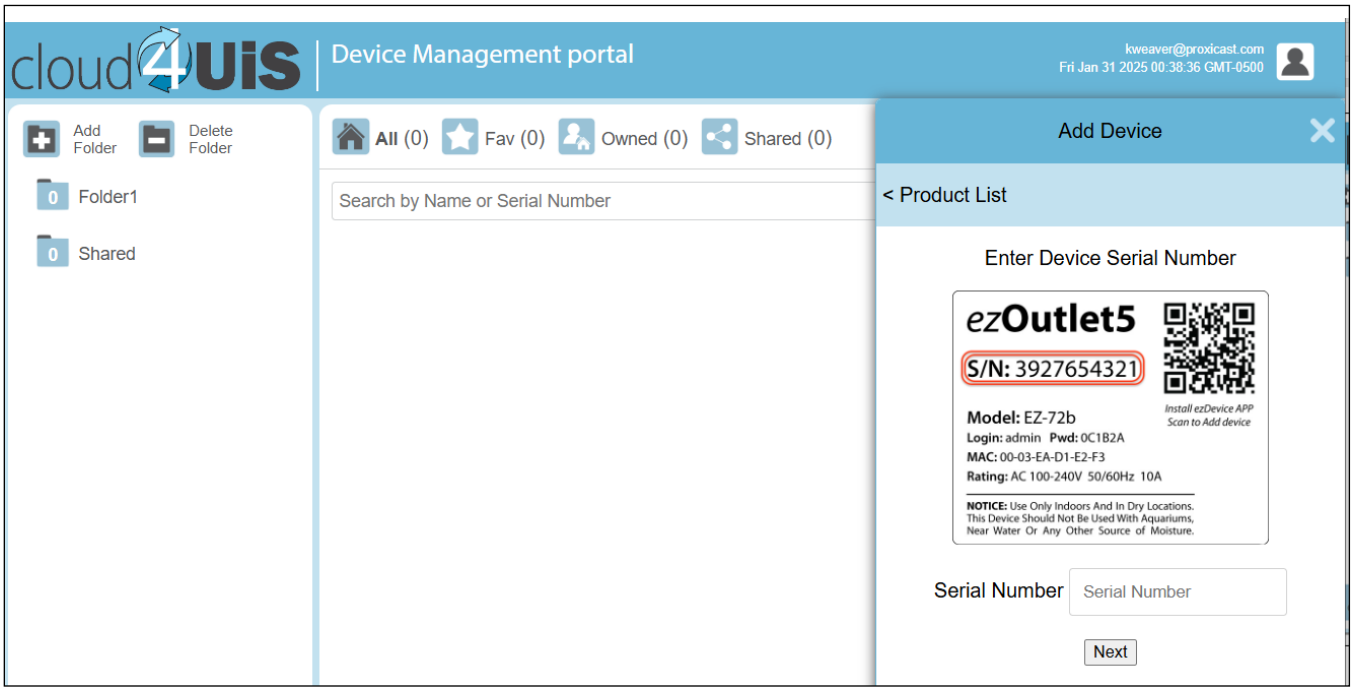
Select the type of device you wish to add (EZ-72b).

You will be reminded to use ezDevice if your ezOutlet5 is attached to your WiFi network; otherwise, click Next to add the ezOutlet5 using an Ethernet cable attached to your network.

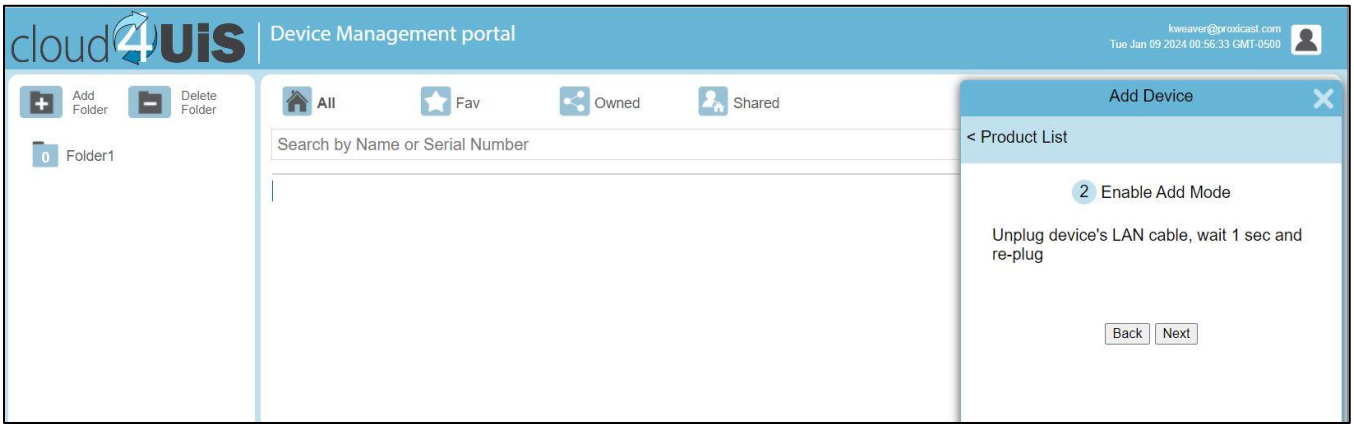


Click Next to add the wired device by serial number found on the bottom label of the ezOutlet5.

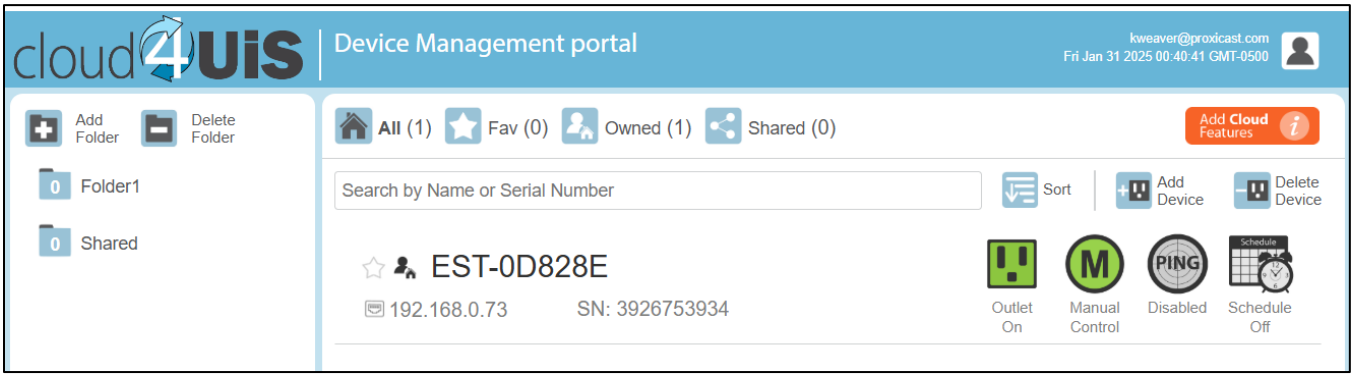


Enter the ezOutlet5's 10-digit serial number and click Next.

If your PC is on the same subnet as the ezOutlet5, Cloud4UIS should find automatically. If not, you will be instructed to activate "Add Mode" on the ezOutlet5.



To place the ezOutlet5 into "Add Mode", unplug the LAN cable for approximately 1 second, then reinsert it into the ezOutlet5. Click Next and Cloud4UIS will confirm that it can communicate with your unit.



Click any of the devices added to Cloud4UIS to manage them. You can see various status information and change most of the ezOutlet5's settings. Remember to click Save after making any changes.

3. Internal Web Sever

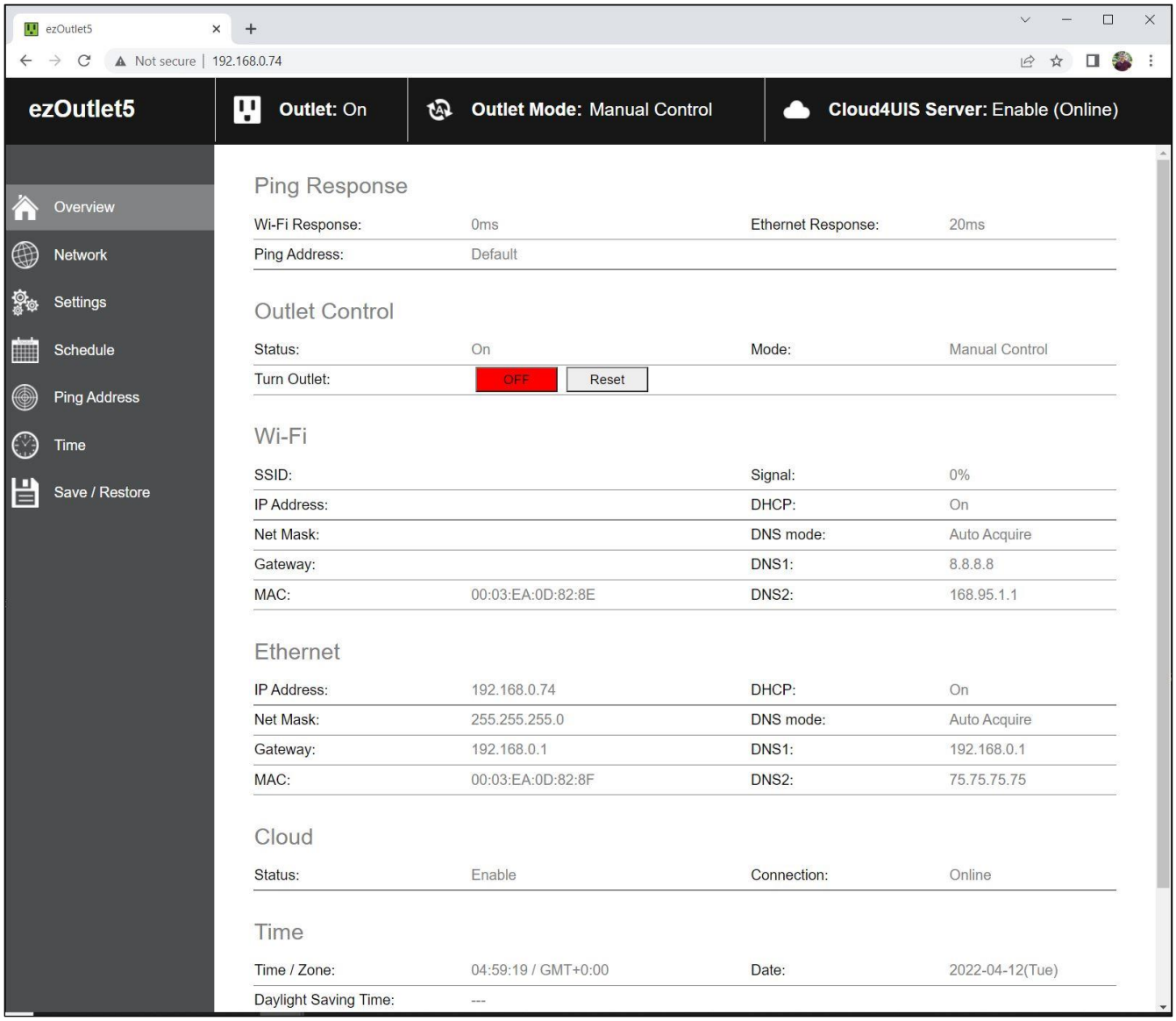
Access to the ezOutlet5's functionality is available via its internal web server pages. To access the web server, enter the ezOutlet5's IP address into any web browser.

http://<ip-address-of-ezOutlet5>
e.g. http://192.168.1.33

The default username for the ezOutlet5 is "admin".

The default password is the last 6 characters of the ezOutlet5's MAC address (upper case). See the ezOutlet5 bottom label for the password.

If you do not know the IP address of your ezOutlet5, check your router's DHCP server log or if you've added the ezOutlet5 to the ezDevice app or Cloud4UIS.com web service, check the Network tab in those applications.



4. REST API

NOTE: The REST API feature requires ezOutlet5 firmware version EST.2906 or later.

Basic functions of the ezOutlet5 can be controlled through a series of HTTP Packet Requests.

Examples in this section are shown using cURL for Windows. Any software capable of sending and processing HTTP packets can be used.

Turn Outlet On/Off

HTTP Packet Request

"GET" <target> "HTTP/1.1"CRLF
"Host:" <host ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization:Basic" <auth>CRLFCRLF ;auth:encoded account(admin:1234) with base-64
HTTP URL: “http://< IP>/cgi-bin/control.cgi?<auth>&<action>”

Request Description:

IP:
The IP Address of the ezOutlet5
Auth:
user=<Web Account>
passwd=<Web Password>

Action:
target=<0/1>;
0 means outlet mode,
1 means outlet
control=<0/1/2/3>;
0 means off,
1 means on,
2 means switch (i.e. from On → Off, or from Off → On),
3 means reset (Outlet only)

Packet Response:

XML format:
"<?xml version='1.0'?>"
"<request>"
“<outlet_status>”{outlet_status}”</outlet_status>”
"<outlet_mode>”{outlet_mode}”</outlet_mode>”
"</request>"

XML Description:
outlet_status: 0 = off, 1 = on
outlet_mode: 0 = manual control, 1 = auto reset

EXAMPLE: Turn outlet off

curl "http://192.168.0.70/cgi-bin/control2.cgi?user=admin&passwd=0D34E1&target=1&control=0"

OUTPUT
<?xml version='1.0'?>
<request>
<outlet_status>0</outlet_status>
<outlet_mode>1</outlet_mode>
</request>

Get the Status of the ezOutlet5

HTTP Packet Request

"GET" <target> "HTTP/1.1"CRLF
"Host:" <host ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization:Basic" <auth>CRLFCRLF ;auth:encoded account(admin:1234) with base-64
HTTP URL: “http://<auth>< IP>/xml/outlet_status.xml”

IP:
The IP Address of the ezOutlet5
Auth:
<Web Account>@<Web Password>

XML format:
"<?xml version='1.0'?>"
"<request>"
“<site_ip>”{site}”</site_ip>”
“<site_mode>”{site_mode}”</site_mode>”
“<site_lost>”{site_lost}”</site_lost>”
“<outlet_status>”{outlet_status}”</outlet_status>”
“<outlet_mode>”{outlet_mode}”</outlet_mode>”
“<ping_delay_after_power_on>”{ping_delay_after_power_on}”</ping_delay_after_power_on>”
“<power_on_delay>”{power_on_delay}”</power_on_delay>”
“<no_of_reset>”{no_of_reset}”</no_of_reset>”
“</request>”

XML Description:
site: uuu.uuu.uuu.uuu or google.com
site_mode: 0 = http, 1 = ping
site_lost: 0 = ping successful, 1 = ping failed
outlet_status: 0 = off, 1 = on
outlet_mode: 0 = manual control, 1 = auto reset
ping_delay_after_power_on: number, range 0 ~ 1440
power_on_delay: number, range 3 ~ 240
no_of_reset: 1 ~ 10, 0 = unlimited

EXAMPLE: Get Status

curl "http://admin:0D34E1@192.168.0.70/xml/outlet_status.xml"

OUTPUT

```
<?xml version='1.0'?>
<request>
<site_ip></site_ip>
<site_mode>1</site_mode>
<site_lost>0</site_lost>
<outlet_status>0</outlet_status>
<outlet_mode>1</outlet_mode>
<ping_delay_after_power_on>0</ping_delay_after_power_on>
<power_on_delay>3</power_on_delay>
<no_of_reset>1</no_of_reset>
</request>
```

# # #