Controlling the ezOutlet5-2R

Tech Note MSNTN06

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Document Revision History:

Date	Comments
May 4, 2026	Updated for firmware ESU.5234 Updated for API v.6504 Updated Cloud4UIS screen images Updated OLED menus Added Google Smart Home section
Jan 5, 2024	First release

This TechNote Applies Only to the ezOutlet5-2R Models:

EZ-73a, EZ-73t

Introduction

The ezOutlet5-2R from Mega System Technologies, Inc ("MegaTec") is designed to automatically power-cycle up to two AC devices when Internet connectivity is lost. Its AC power outlets can also be reset manually or via scheduled actions.

There are 6 ways to access and control the functionality of the ezOutlet5-2R:

1. ezDevice Smartphone App
2. Cloud4UIS.com Device Management Portal
3. The ezOutlet5-2R's OLED Status Display & Function Button
4. The ezOutlet5-2R's Internal Web Server
5. Google Smart Home application
6. A REST-ful API for HTTP Commands

IMPORTANT NOTES

By default, the Auto Reset function (power-cycle on Internet loss) is **DISABLED**.

You must use one of the methods above to enable Auto Reset if you want the ezOutlet5-2R to automatically power-cycle your equipment.

When Auto Reset is enabled, the reset event will occur up to 3 times by default. This number can be increased up to infinity.

With the default settings, the Auto Reset function will reset both outlets in sequence – Outlet #1 then Outlet #2 ten seconds later. You can limit the reset to just one of the outlets if desired. You can also change the *Power-On Delay* time for each outlet.

The Auto Reset function detects the loss of connectivity, not the absence of it. The ezOutlet5-2R must establish communications with the target site at least once after the *Ping Delay After Power On* time value (default = 1 minute) before the Auto Reset connection monitoring function is engaged.

For more information about how the Auto Reset algorithm works, visit: https://www.proxicast.com/shopping/ezOutlet5-2R.

1. ezDevice Smartphone App

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

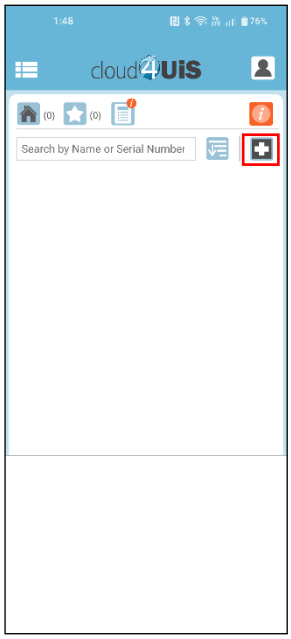
Launch the ezDevice app and create a new account. This same account information will be used for the Cloud4UIS.com web service (see page 4).

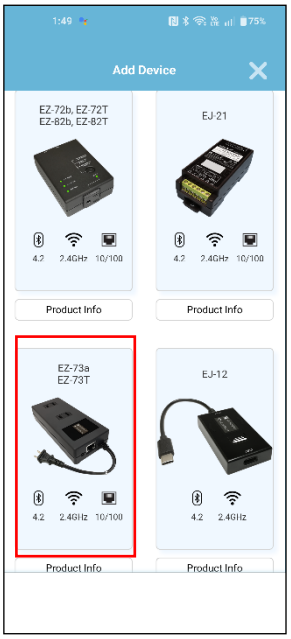
ezDevice uses Bluetooth to scan and locate your ezOutlet5-2R devices. Hold your phone within 1 meter (3 ft) of the ezOutlet5-2R and tap the (+) sign to add a new device to your list.

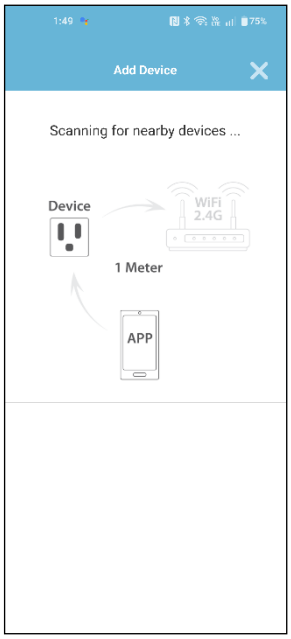
Tap the model of the product you wish to locate (EZ-73a). ezDevice will scan for all ezOutlet5-2R's. If one is found, its serial number will be shown. Tap the Serial Number to add it to your account.

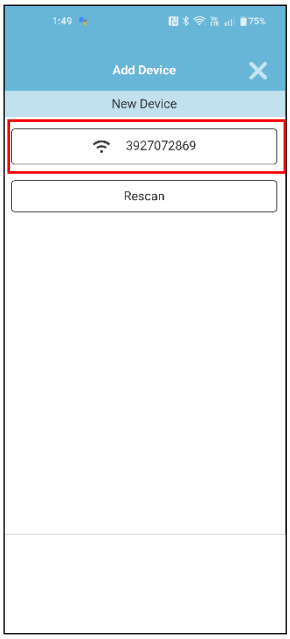
If the ezOulet5-2R does not have a wired Ethernet connection to your network, ezDevice will prompt for the Wi-Fi access point name (SSID) and password for your Wi-Fi network. If successful, the ezOutlet5-2R will be added to your Cloud4UIS account and to the ezDevice app simultaneously.

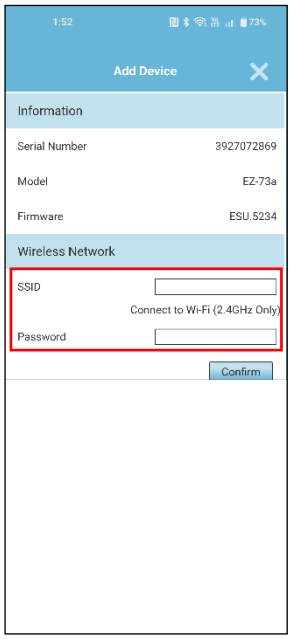
NOTE: The Wi-Fi SSID and Password are case sensitive.

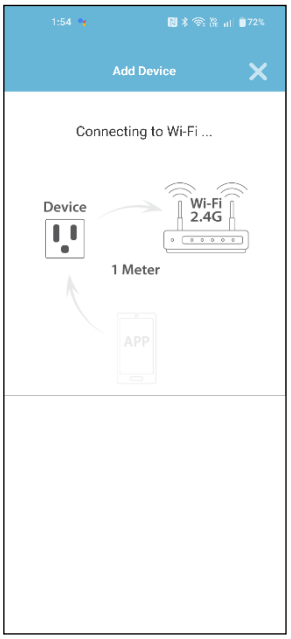


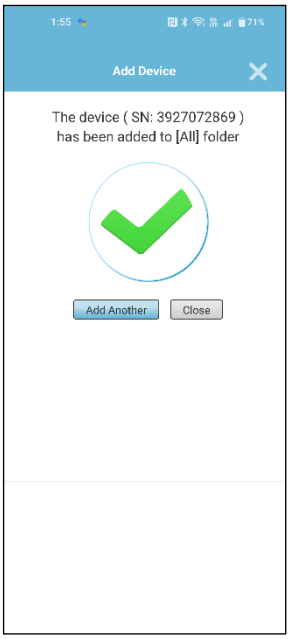




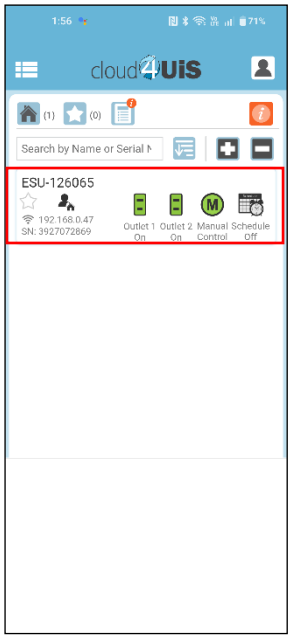


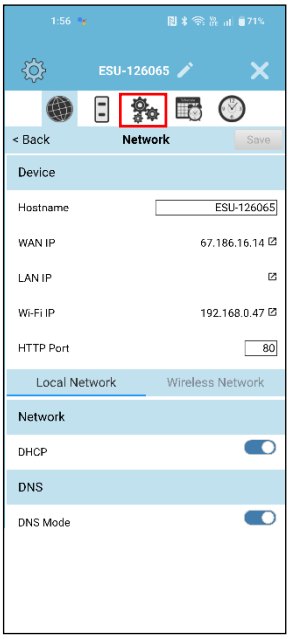


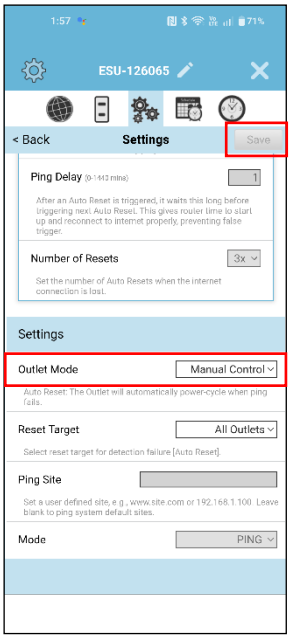




Tap the ezOutlet5-2R in the My Devices list to change its settings.







On the Settings page, change the **Outlet Mode** to “Auto Reset” to enable power-cycling upon Internet loss. Remember to tap **Save** to send the new setting to the ezOutlet5-2R.

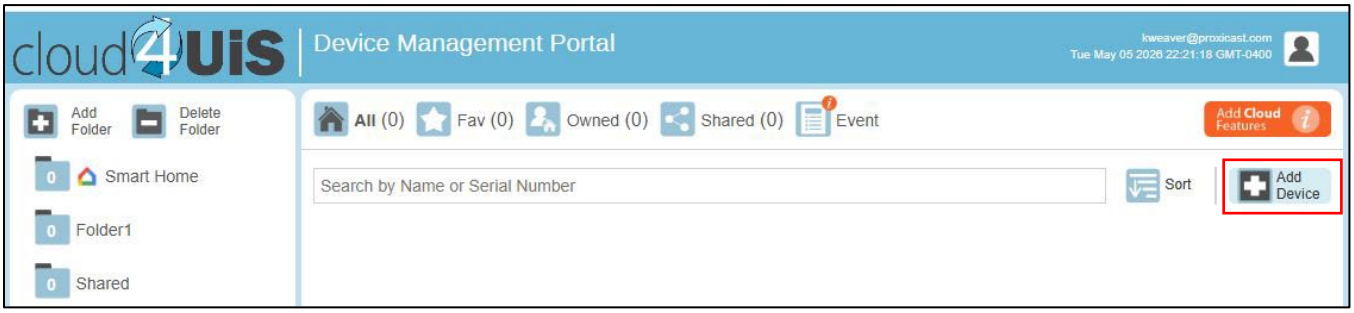
2. Cloud4UIS.com Device Management Portal

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

http://Cloud4UIS.com

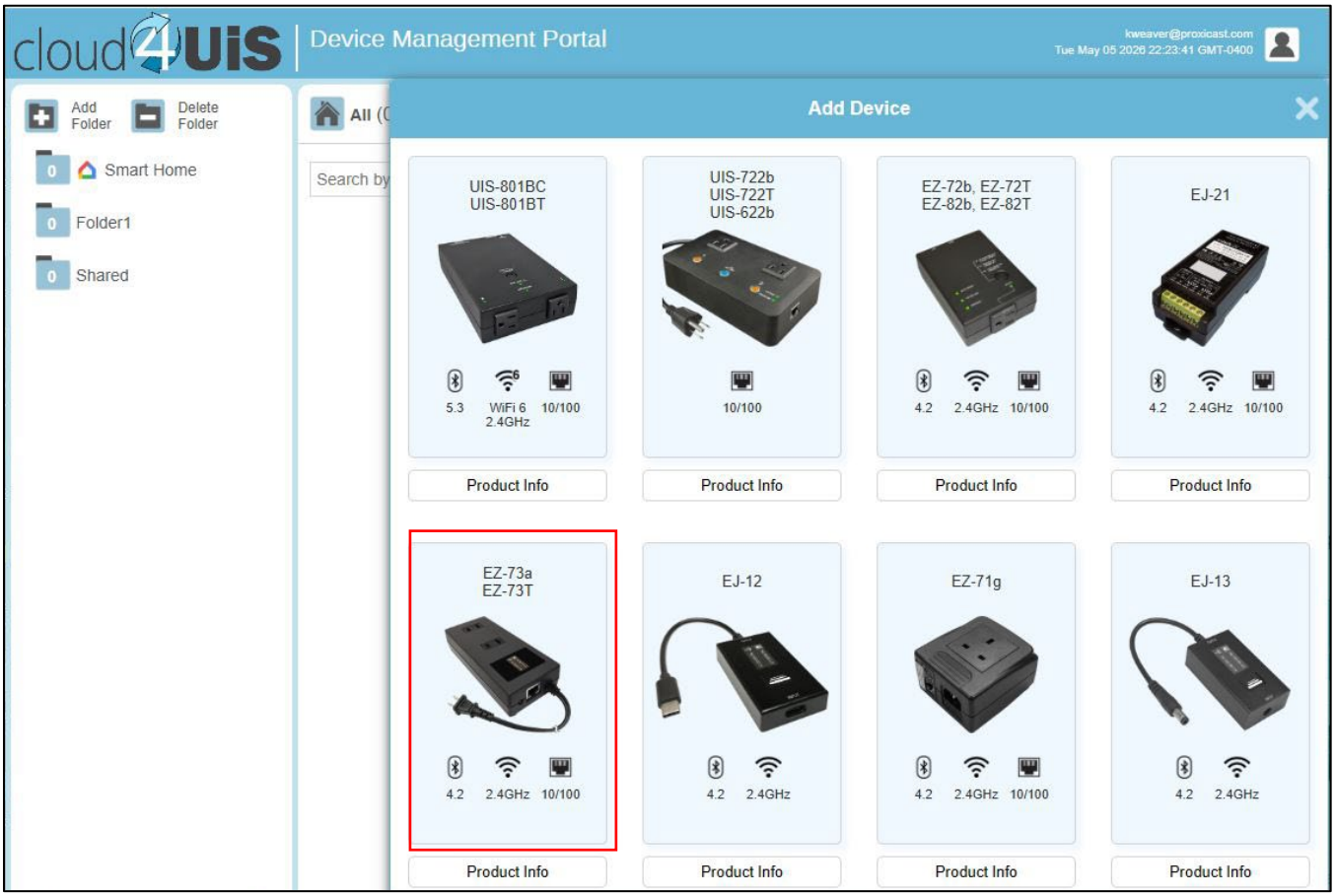
If you do not yet have an account, create one on the site. If you previously created an account using ezDevice, use the same login credentials for Cloud4UIS.com. The Cloud4UIS service is free.

If you used ezDevice to add devices, they will appear in your Cloud4UIS account automatically. 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 and select the type of device you wish to add (EZ-73a)



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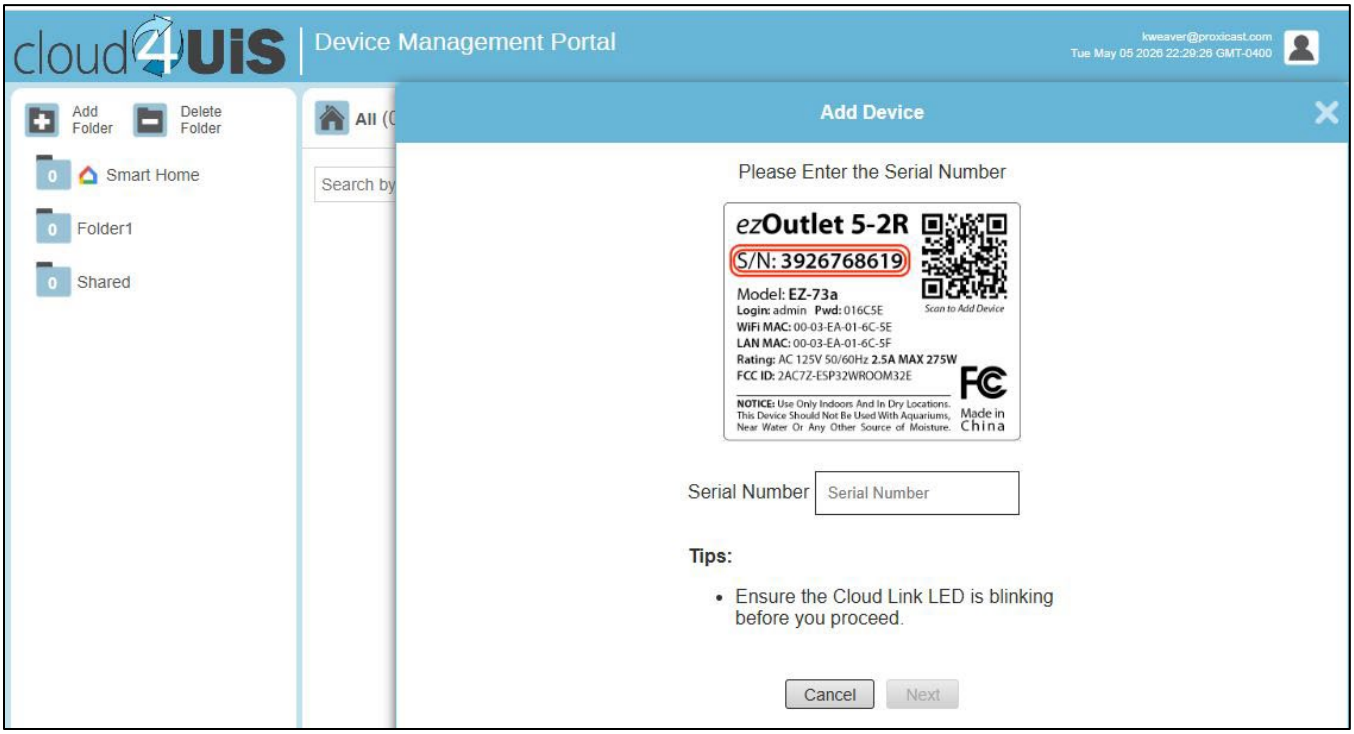

Enter the ezOutlet5-2R's 10-digit serial number found on the bottom label of the ezOutlet5-2R and click **Next**. If your PC is on the same subnet as the ezOutlet5-2R, Cloud4UIS should find it automatically.

Click any of the devices added to Cloud4UIS to manage them. You can see various status information and change most of the ezOutlet5-2R's settings. The popup screens are identical to the ezDevice screens. Remember to click Save after making any changes.

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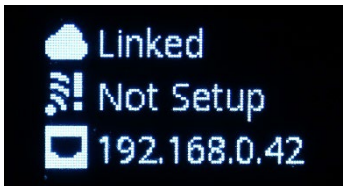
3. OLED Status Display & Function Button

The ezOutlet5-2R's OLED Display provides access to important information about the operating state of the device. The display can also be used to change the power on/off/reset state of each outlet and perform a factory reset.

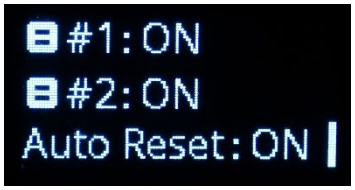
After power-on, the ezOutelt5-2R's OLED displays the System Status Screen:

	**Top:** Power Status of each Outlet **Lower Left:** Internet Status **Lower Right:** Auto Reset Status: • Shield = Auto Reset Enabled • No Shield = Auto Reset Disabled	The OLED screen will turn off after 3 minutes. Press the Function button briefly to display the status screen again.

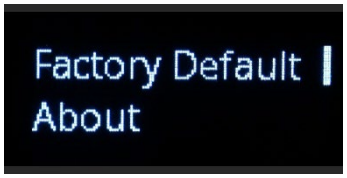
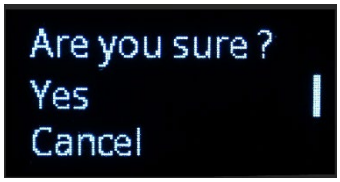
Pressing the Function button again displays the Network Status Screen:

	**Top:** Cloud Link Status **Middle:** Wi-Fi IP Address **Bottom:** Ethernet IP Address	

Pressing the Function button for the third time displays the Modify Status Screen. Press the Function button to move the cursor to the next option. Press and hold the Function button for 2 seconds to toggle the status.

Moving beyond the Modify Status Screen displays the Factory Default Reset Screen.

	Press & Hold the Function button for 2 seconds and then confirm the factory reset. About shows the device name, serial number & firmware version.	

NOTE:
After a Factory Default Reset, all configuration settings are returned to their original default values and the ezOutlet5-2R must be re-added to the Cloud for remote access. A factory reset can also be performed via the ezOutlet5-2R's internal web server.

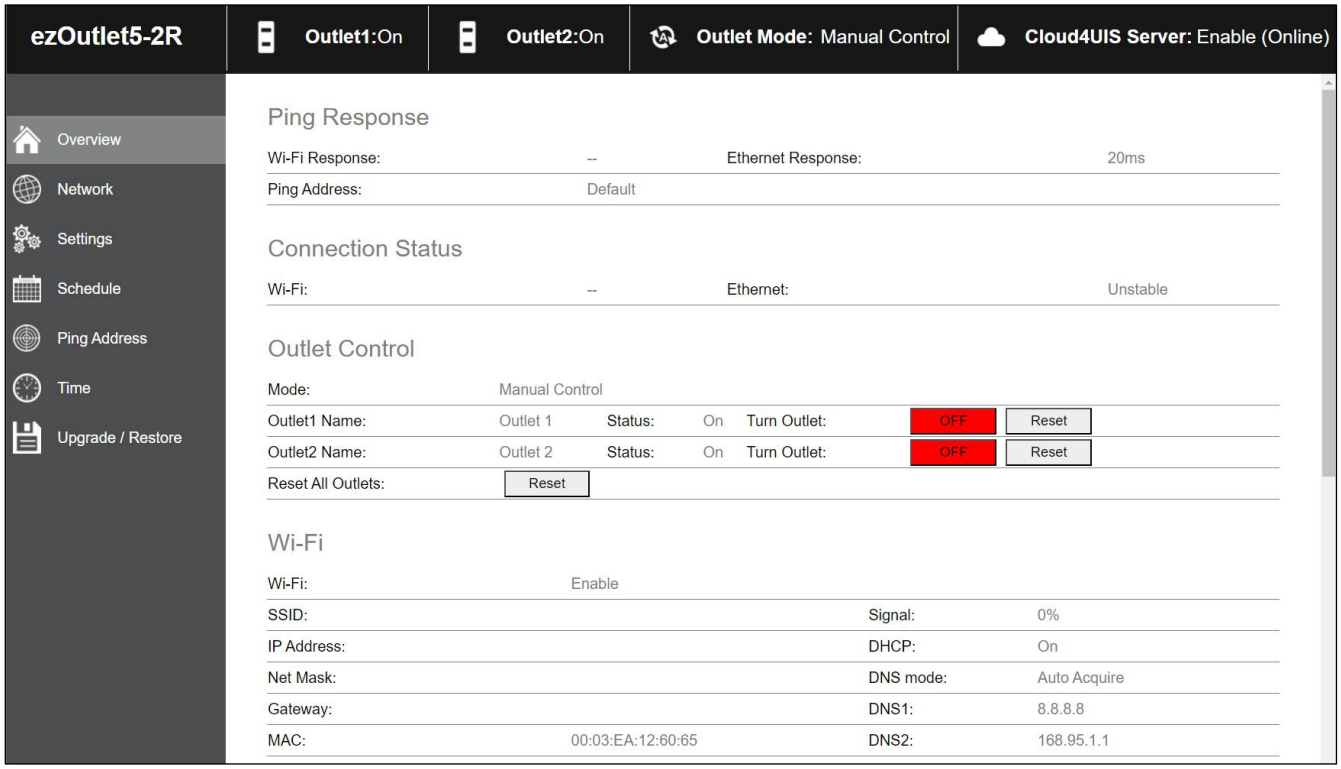
4. Internal Web Sever

Access to the ezOutlet5-2R's functionality is available via its internal web server pages. To access the web server, enter the ezOutlet5-2R's IP address into any web browser. The IP addresses of the Wi-Fi and/or Ethernet interfaces can be found on the OLED status display.

http://<ip-address-of-ezOutlet5-2R>
e.g. http://192.168.0.69

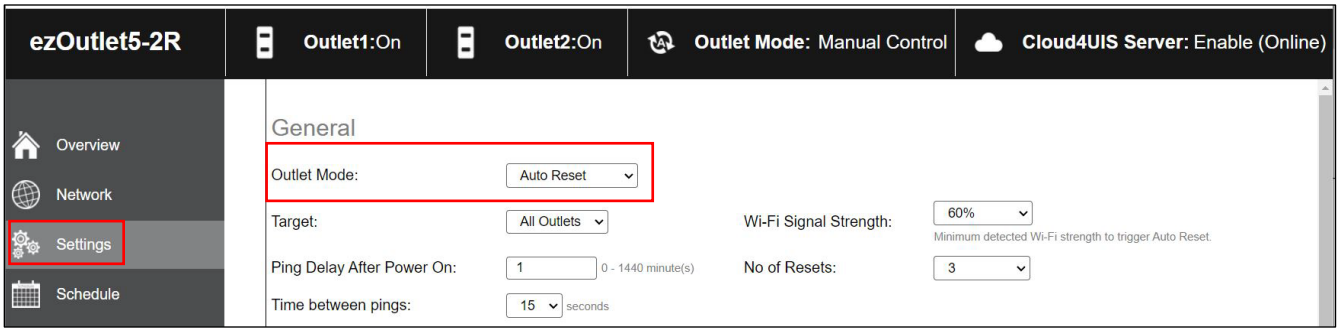
The default username for the ezOutlet5-2R is "admin".

The default password is the last 6 characters of the ezOutlet5-2R's Wi-Fi MAC address (upper case). See the ezOutlet5-2R bottom label for the password.



The internal web server interface provides access to all features of the ezOutlet5-2R, some of which (e.g. password changes and configuration backup/restore) are not available through any other means.

To enable the Auto Reset feature, go to the Settings menu and change the **Outlet Mode** to "Auto Reset".



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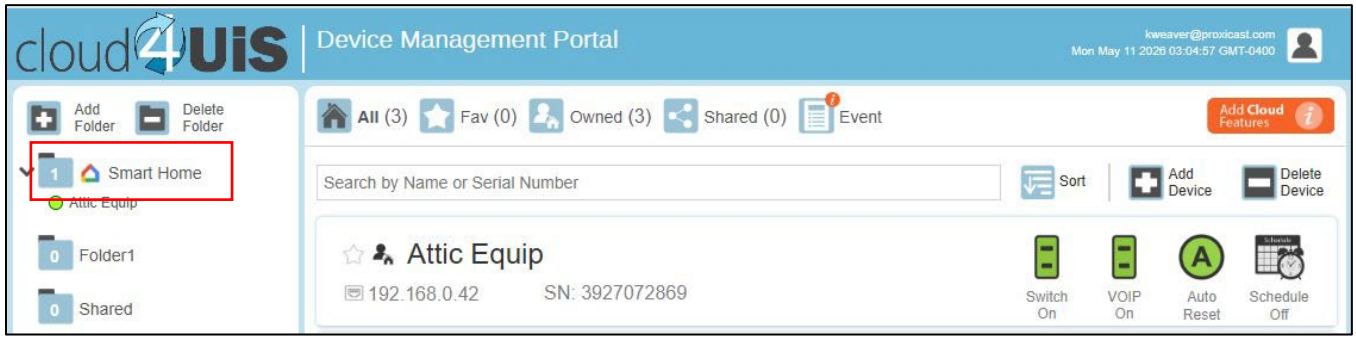
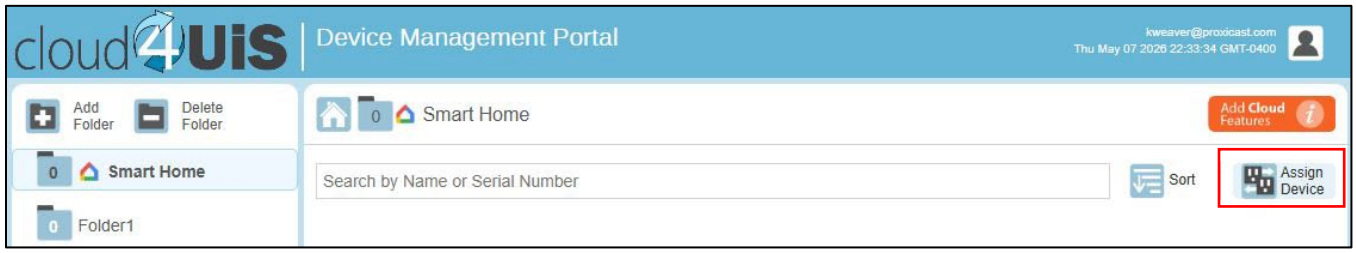
5. Google Smart Home

After you have added your ezOutlet5-2R to your Cloud4UIS account, you can integrate it with your other smart devices via the Google Home application.

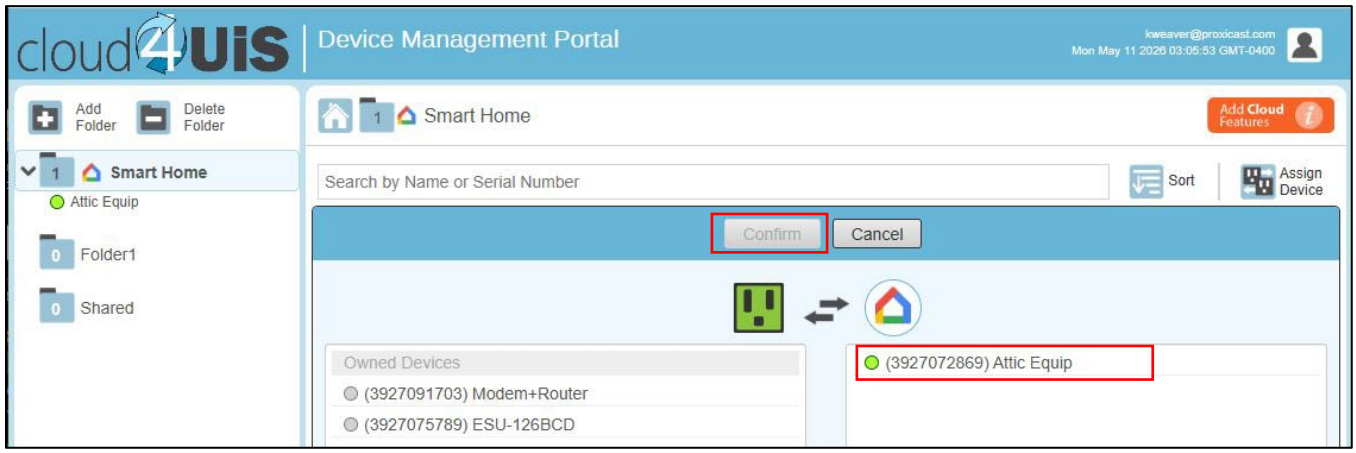
From the Cloud4UIS Home folder, click the **Smart Home** icon on the left.



In the Smart Home folder, click the **Assign Device** icon on the right.



This will display a list of all of the devices in your Cloud4UIS account. Select the one(s) you want to add to your Google Home account and click **Confirm**.



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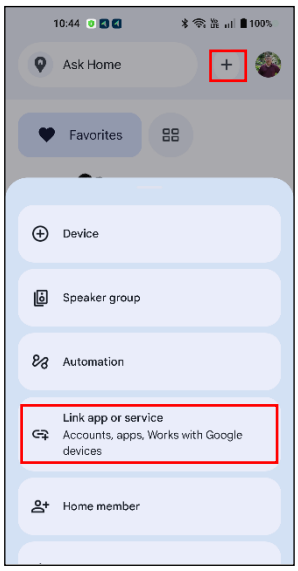
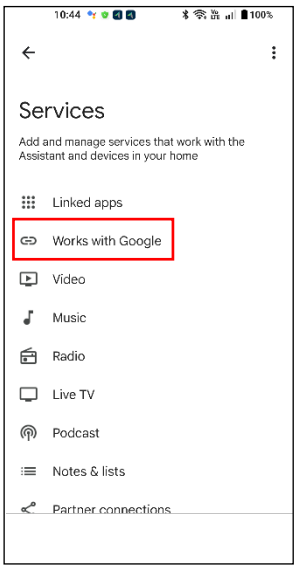
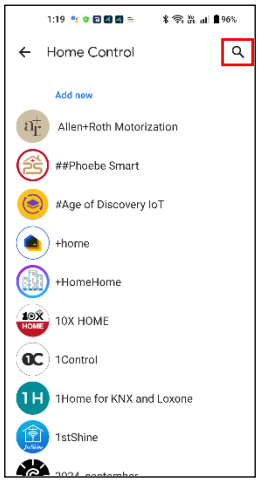
Next, open your Google Home app and tap the plus sign (+) to add a new device. Tap the “Link app or service” menu option.



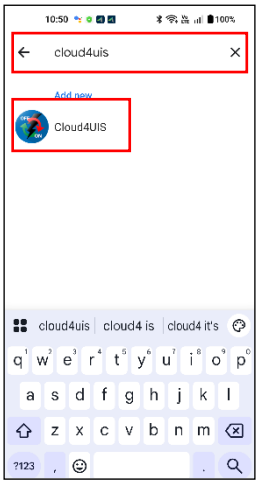
Select the “Works with Google” option.

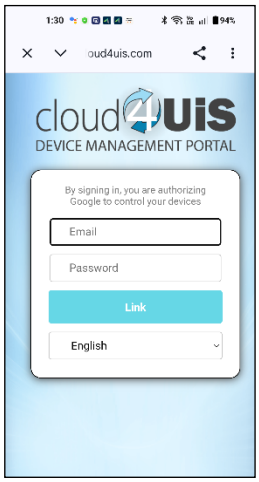
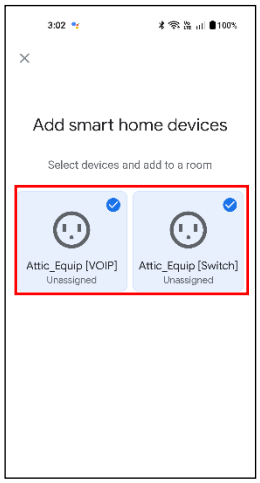
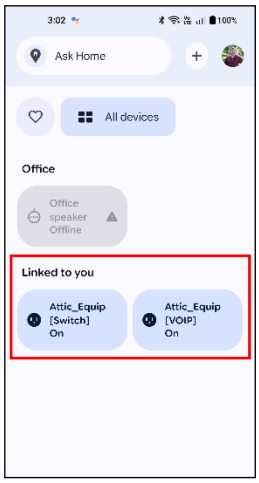
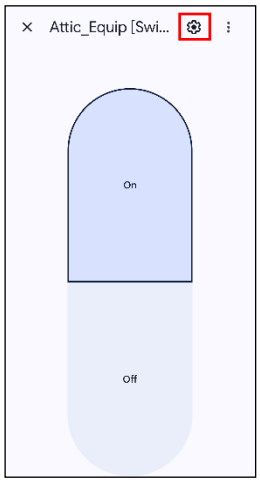


Tap the magnifying glass icon to search.



Enter “cloud4uis” in the search box, then tap the Cloud4UIS icon in the results area.



Follow the on-screen prompts to access the Cloud4UIS portal login screen. Enter your Cloud4UIS password and tap the **Link** button. 	You will see a list of the devices that you previously added to the Cloud4UIS Smart Home folder. Select the device and add it to a Room. 
Return to the Google Home screen to see your Rooms and devices. 	Tap your device icon to toggle the outlet power. Hold the icon down for further details about the ezOutlet. 

Google Home can only turn the ezOutlet5-2R's outlets on or off. However you can use Gemini on your phone to say things like "*Hey Google, turn off the Attic Ethernet Switch*". You can also integrate Cloud4UIS devices into Google Home Automation sequences.

Note: The device name displayed by Google Home is the "hostname" of the ezOutlet5-2R (set in the Settings menu) and not the display name shown in the Cloud4UIS portal. If you change the hostname after adding the ezOutlet5-2R to your Google Home account, you will need to relink Cloud4UIS for the new name to appear.

6. REST API

NOTE: The REST API syntax below requires ezOutlet5-2R firmware version ESU.5234 or later. We recommend updating to the latest ezOutlet5-2R firmware as the older API syntax is no longer supported.

Basic functions of the ezOutlet5-2R 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.

WHITE LIST

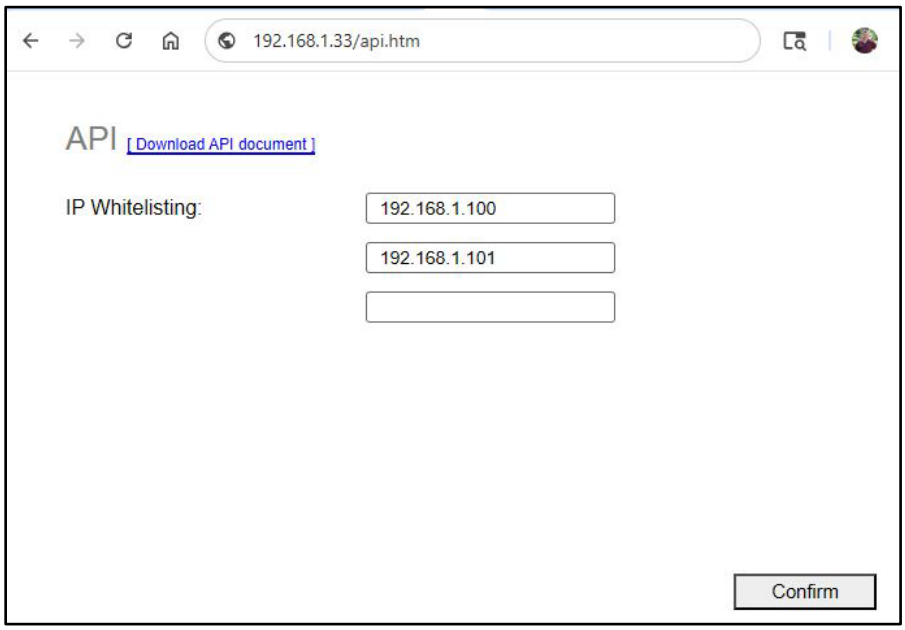
Any device that makes API requests to the ezOutlet5-2R must have its IP address added to the ezOutlet5's "white list" of allowed addresses. Up to 3 IP addresses are allowed.

To access the ezOutlet5's IP white list, go to this URL in a web browser:

http://<IP>/api.htm
where <IP> is the local address of the ezOutlet5-2R.

Log in with your ezOutlet5-2R web username and password.

Enter up to 3 addresses and confirm the values.



If you plan to make API calls from addresses outside of your local area network, include the IP address of your LAN's router/firewall which will be port-forwarding traffic to the ezOutlet5-2R.

Get System Information

HTTP Packet Request

"GET /api/v1/system/info> HTTP/1.1"CRLF
"Host: <IP>"CRLF
"Authorization: Basic <Auth>"CRLF
"Accept: */*"CRLF
"Content-Length: 0"CRLF
CRLF

Request Description

<IP>: The IP Address of the ezOutlet5-2R
<Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)

Response Data

JSON format:

```
{
 ping": {
“site”: “”,                          // “” = system default target, otherwise user specified target is returned
“mode”: “ping”,                      // “ping”, “http”
“response_time”: 20                  // millisecond, -1 = timeout
        },
“outlet”: [{                         // Outlet #1
        “status”: true,              // true = on, false = off
        “reset_only”: false
        },
        {                            // Outlet #2

        “status”: true,              // true = on, false = off
        “reset_only”: false
        }
        ],
“outlet_mode”: “manual”,                    // “manual”, “auto”
“ping_delay_after_power_on”: 60,            // 0 ~ 1440 minutes
“no_of_reset”: 3,                           // 0 = unlimited, 1 ~ 10
,"reset_target":"all_outlets"               // outlet1, outlet2 or all_outlets
}
```

EXAMPLE: Get System Info

curl -X GET -u "admin:12345" http://192.168.1.33/api/v1/**system/info**

OUTPUT
{"ping":{"site":"","mode":"ping","response_time":20},"outlet":[{"status":true,"reset_only":false},{"status":true,"reset_only":false}],"outlet_mode":"manual","ping_delay_after_power_on":1,"no_of_reset":3,"reset_target":"all_outlets"}

Get Outlet Status

HTTP Packet Request

"GET /api/v1/outlet/info> HTTP/1.1"CRLF
"Host: <IP>"CRLF
"Authorization: Basic <Auth>"CRLF
"Accept: */*"CRLF
"Content-Length: 0"CRLF
CRLF

Request Description

<IP>: The IP Address of the ezOutlet5
<Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)

Response Data

JSON format:

```
{
"outlet": [{                        // Outlet #1
        "status": true,             // true = on, false = off
        "reset_only": false         // true or false
        },
        {                           // Outlet #2
        "status": true,             // true = on, false = off
        "reset_only": false         // true or false
        }
        ]
}
```

EXAMPLE: Get Outlet Status

curl -X GET -u "admin:12345" http://192.168.1.33/api/v1/outlet/**info**

OUTPUT
{"outlet":[{"status":true,"reset_only":false},{"status":true,"reset_only":false}]}

Turn Outlets On/Off

HTTP Packet Request

"POST /api/v1/outlet/<Num>/<Action> HTTP/1.1"CRLF
"Host: <IP>"CRLF
"Authorization: Basic <Auth>"CRLF
"Accept: */*"CRLF
"Content-Length: 0"CRLF
CRLF

Request Description

<IP>: The IP Address of the ezOutlet5
<Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)
<Num>: 0 = all outlets, 1 = outlet1, 2 = outlet2
<Action>: on / off / reset // reset = power off, wait_power_on_delay_time then power on

Response Data

JSON format:

```
{
"outlet": [{                    // Outlet #1
    "status": false,            // true = on, false = off
    "reset_only": false         // true or false
    },
    [{                          // // Outlet #2
    "status": true,             // true = on, false = off
    "reset_only": false         // true or false
    }
    ]
}
```

IMPORTANT NOTE:
When the outlet is set to "Reset Only", performing a turn-off operation will trigger a reset.

EXAMPLE: Turn outlet 1 off

curl -X POST -u "admin:12345" http://192.168.1.33/api/v1/outlet/1/**off**

OUTPUT
{"outlet":[{"status":false,"reset_only":false},{"status":true,"reset_only":false}]}

EXAMPLE: Turn both outlets on

curl -X POST -u "admin:12345" http://192.168.1.33/api/v1/outlet/0/**on**

OUTPUT
{"outlet":[{"status":true,"reset_only":false},{"status":true,"reset_only":false}]}

Set Auto Reset Mode

HTTP Packet Request

"PUT /api/v1/outlet/mode/<mode> HTTP/1.1"CRLF
"Host: <IP>"CRLF
"Authorization: Basic <Auth>"CRLF
"Accept: */*"CRLF
"Content-Length: 0"CRLF
CRLF

Request Description

<IP>: The IP Address of the ezOutlet5
<Auth>: ezOutlet web login: username:password (base-64 encoded – cURL encodes by default)
<mode>: “manual”, “auto”

Response Data

JSON format:

```
{
“outlet_mode”: “auto”     // “manual”, “auto”
}
```

EXAMPLE: Enable Auto Reset Mode

curl -X PUT -u "admin:12345" http://192.168.1.33/api/v1/outlet/**mode/auto**

OUTPUT
{"outlet_mode":"auto"}

# # #