

proxicast®  
**UIS-722b**  
**Controlling**  
**The MSN**  
**Switch**



## proxicast UIS-722b Controlling The MSN Switch User Guide

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**proxies UIS-722b Controlling The MSN Switch**



## Specifications

- Manufacturer: Proxicast, LLC
- Model: MSNSwitch
- Supported Models: UIS-722b, UIS-622b
- Functionality: Automatically power-cycle any AC-powered device when Internet connectivity is lost

## FAQs

- **Q: How do I update the firmware of the MSNSwitch?**
  - A: To update the firmware, follow the instructions provided in the user manual. Make sure to check for firmware updates regularly on the manufacturer's website.
- **Q: What should I do if I forget the IP address of my MSNSwitch?**
  - A: You can check your DHCP server log or use the Netility utility software to scan for the MSNSwitch and retrieve its IP address.

## PRODUCT INFORMATION

### Document Revision History:

Date	Comments
Jan. 11, 2024	Added model UIS-722b. Removed references to older firmware versions.
Feb 24, 2023	Updated for changes in firmware MNT-3207 and later. Changes include new default parameter values, firmware updates via iDevice, and a simplified API.
Oct 2, 2022	Clarified API examples
Sept 22, 2022	Updated screen images with the latest software versions. Corrected error in API documentation
June 1, 2021	Added non-DHCP IP assignment feature <i>[removed in MNT.3207]</i>
Dec 9, 2020	Updated for API changes in firmware MNT.A624
Jan. 2, 2020	Updated to include model UIS-622b
Aug. 1, 2019	First release

## This TechNote Applies Only to MSNSwitch Models:

UIS-722b, UIS-622b

### Introduction

The MSNSwitch from Mega System Technologies, Inc (“MegaTec”) is designed to automatically power-cycle any AC-powered device when Internet connectivity is lost. Either of its AC power outlets can also be reset manually or via scheduled actions.

There are 7 ways to access and control the functionality of the MSNSwitch:

1. The MSNSwitch’s internal web server screens
2. ezDevice smartphone app
3. [Cloud4UIS.com](http://Cloud4UIS.com) web service
4. Skype
5. Google Hangouts/Chat
6. A REST-ful API for HTTP commands
7. The Netility utility software

### IMPORTANT NOTE

- Support for the iDevice app and [Cloud4UIS.com](http://Cloud4UIS.com) web service was added in MSNSwitch firmware version MNT.9319 (04/24/2019). MSNSwitch’s running older firmware must be updated – see Updating Firmware.
- In firmware versions MNT.9319 through MNT.2408, the cloud service is Disabled by default.
- You must use the MSNSwitch’s internal web server to enable this function under the Network menu.

Beginning with firmware version MNT.3207, Cloud service is Enabled by default and no user action is required.

The screenshot shows the internal web server configuration interface for the MSNSwitch. The left sidebar contains navigation links: Information (Status), Configuration (Settings), Logs (Data), and Help. The main content area is titled 'DNS Server IP' and contains several sections: 'DNS Server IP' with fields for Primary DNS Server IP (8.8.8.8), Secondary DNS Server IP, and Obtain DNS Server (AUTO); 'Advanced Options' with fields for HTTP Port Number (80) and STUN Server (stun.l.google.com:19302); 'Dynamic DNS' with a dropdown for DDNS Provider (None) and fields for Domain Name, Name, and Password; and 'Cloud' with a dropdown for Cloud Service (set to Enable). The 'Cloud' section is highlighted with a red rectangle. At the bottom right are 'Apply' and 'Reset' buttons.

### Internal Web Server

Full access to all of the MSNSwitch's functionality is available via its internal web server pages. To access the web server, enter the MSNSwitch's IP address into any web browser.

- <http://<ip-address-of-MSNSwitch>> e.g. <http://192.168.1.33>
- When logging into the MSNSwitch for the first time (or after a factory reset), you must create an administrator account and password.

### Create a new Administrator account for this device

1. Set between 1 to 31 characters.  
2. { } < > " ' ; \$ not allowed.

**NOTE:** For older firmware versions, the default user name is “admin” and the default password is the last 6 characters of the MSNSwitch's MAC address (upper case). See the bottom label for the MAC address.

If you do not know the IP address of your MSNSwitch, check your DHCP server log or use the Netility utility software to scan for the MSNSwitch.

**MSNSwitch**

**Information**  
Status

**Current Status** >>>

**Configuration**  
Settings

Configuration  
Schedule  
Network  
E-mail  
Hangouts  
Skype  
Account  
System Time  
Language

**Logs**  
Data

Event Log

**Help**

System Status  
Save / Upgrade  
Online FAQ  
Logout

**Connection Status**

Assign	Site Label	Target Site	IP Address	Response Time	Timeout
Both	Google	www.google.com	142.250.31.147	21 ms	< 1 %
	Yahoo	www.yahoo.com	74.6.231.21	41 ms	< 1 %
	Pingler	www.pingler.com	69.64.32.114	41 ms	< 1 %
	Ask.com	www.ask.com	146.75.38.114	17 ms	< 1 %
None	Router	192.168.0.1	192.168.0.1	1 ms	< 1 %

**Status and Control**

Item	On/Off Control
UIS Reset	<input type="checkbox"/> Window Snap

☒ Assigned outlet will auto reset when target site timeout. Only outlets that are On will reset.  
☐ Assigned outlet will not reset when connection loss is detected.

**Status and Control**

Outlet Name	Status	Control
Outlet 1	On	<input checked="" type="checkbox"/>
Outlet 2	On	<input checked="" type="checkbox"/>

☒ Outlet On   
 ☐ Outlet Off   
 ☒ Outlet is On, UIS Reset function is Off or Outlet is not Assigned

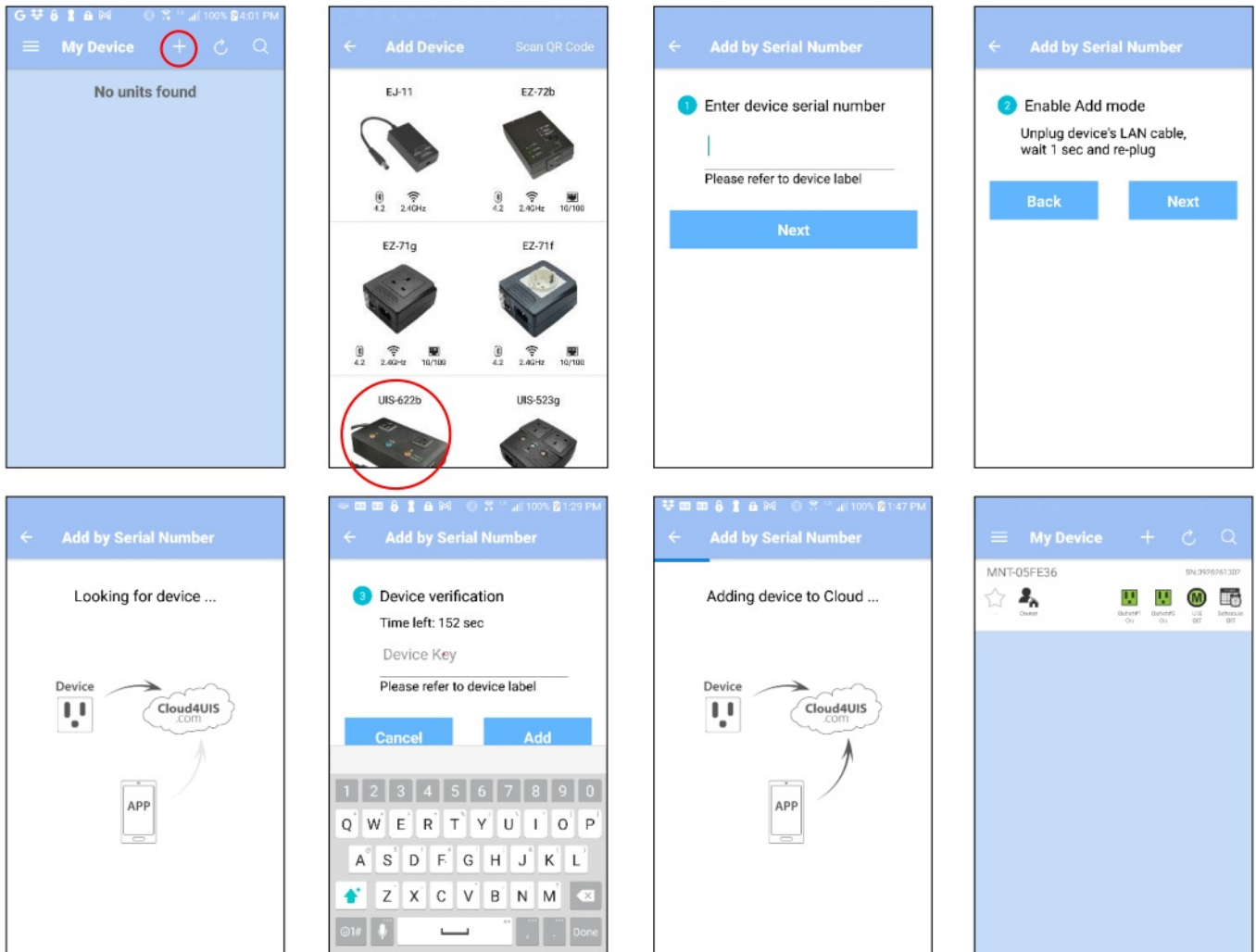
## ezDevice Smartphone App

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



If possible, connect your smartphone via WiFi to the same LAN as the MSNSwitch. This is the fastest and easiest

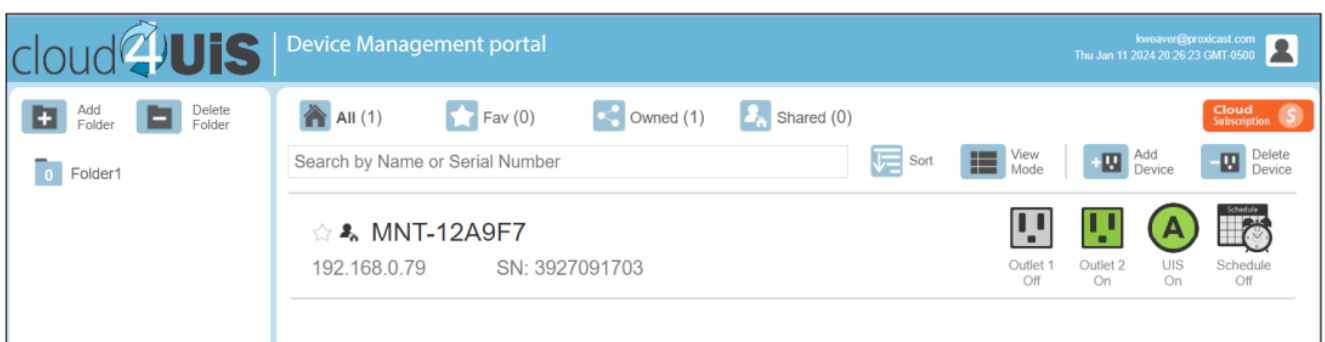
way to add the MSNSwitch to iDevice. Launch the iDevice app and create a new account. This same account information will be used for the [Cloud4UIS.com](https://Cloud4UIS.com) web service. Tap the plus sign (+) on the top right of the screen to add a new device. iDevice will prompt you to select the device model you have; select UIS-622b. iDevice will then prompt for the MSNSwitch's serial number – enter the number from the label on the bottom of the MSNSwitch. To enable “Add Mode”, remove the Ethernet cable for 1 second then re-insert it. During Add Mode, the three lighted buttons on the top of the MSNSwitch will flash in sequence. Click the Next button to begin. Once ezDevice will prompt you to enter the Device Key printed on the bottom label of the MSNSwitch. Tap Done to return to the main screen. Tap the name of your MSNSwitch in the list of devices to change settings.



## [Cloud4UIS.com](https://Cloud4UIS.com) Web Service

Open the [Cloud4UIS.com](https://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](https://Cloud4UIS.com). The Cloud4UIS service is free.
- If you used ezDevice to add devices, they will appear in your Cloud4UIS account automatically.



If you are adding a device for the first time, click the Add Device icon  to open the Add Device screen



The Add Device screen works the same as it does in the ezDevice smartphone app.

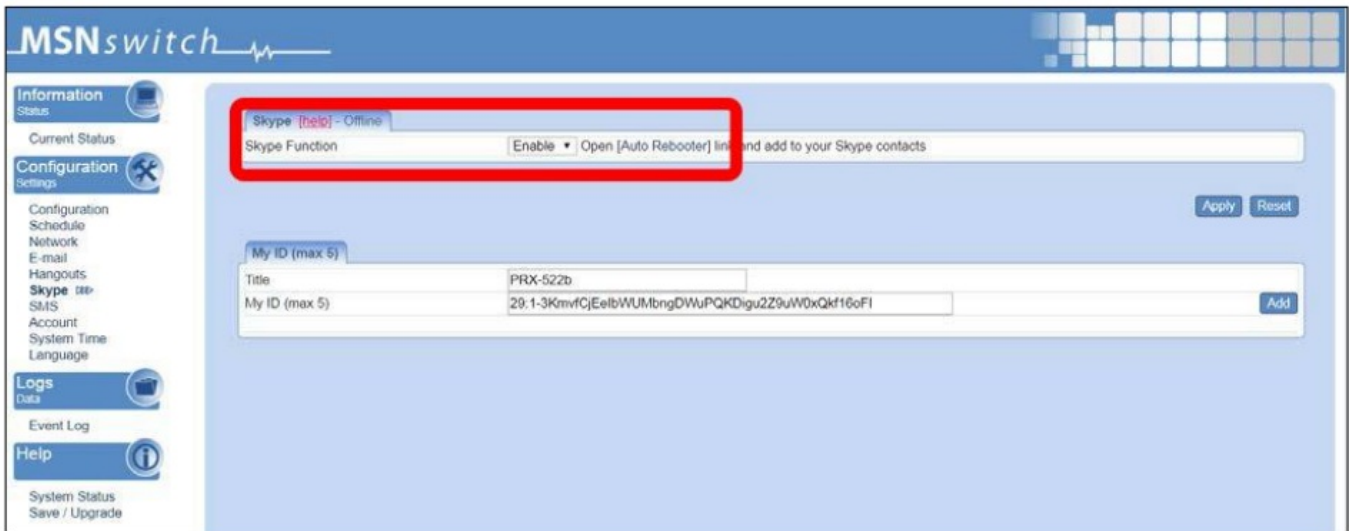


See the ezDevice section on page 4 for instructions on completing the device add procedure. Devices added through [Cloud4UIS.com](https://Cloud4UIS.com) will also be automatically synchronized with the ezDevice app.

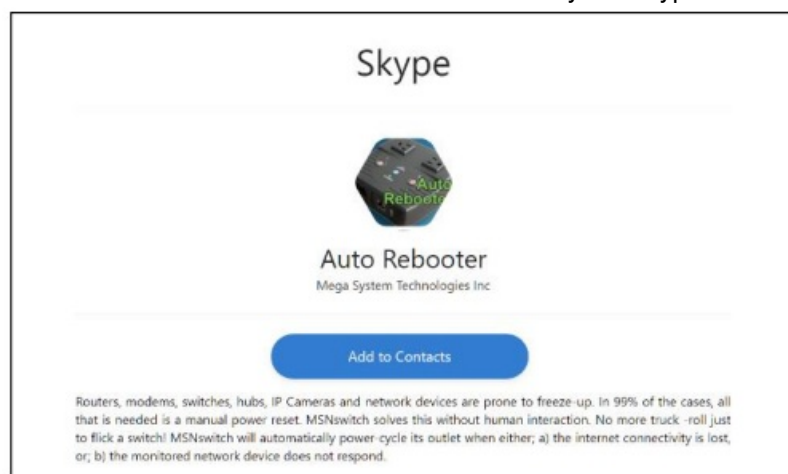
## Skype

In the MSNSwitch's web interface, select the Skype menu and enable the Skype function.

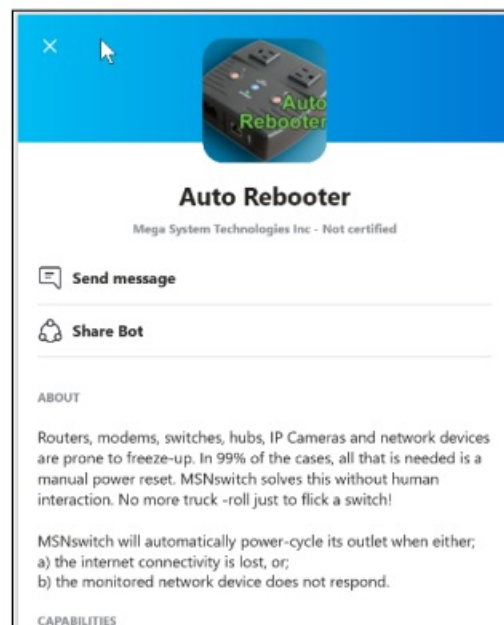




Click the Auto Rebooter link to add the Auto Rebooter robot service to your Skype contacts

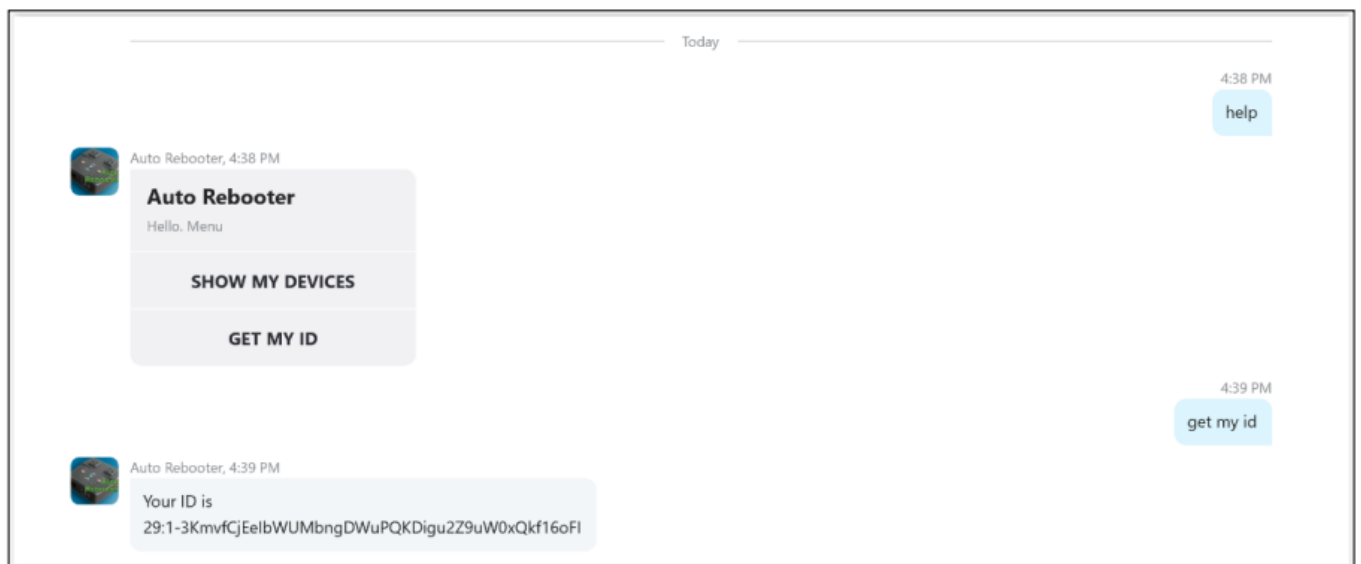


Click the Get Started button to add Auto Rebooter to your contacts and begin a messaging session.

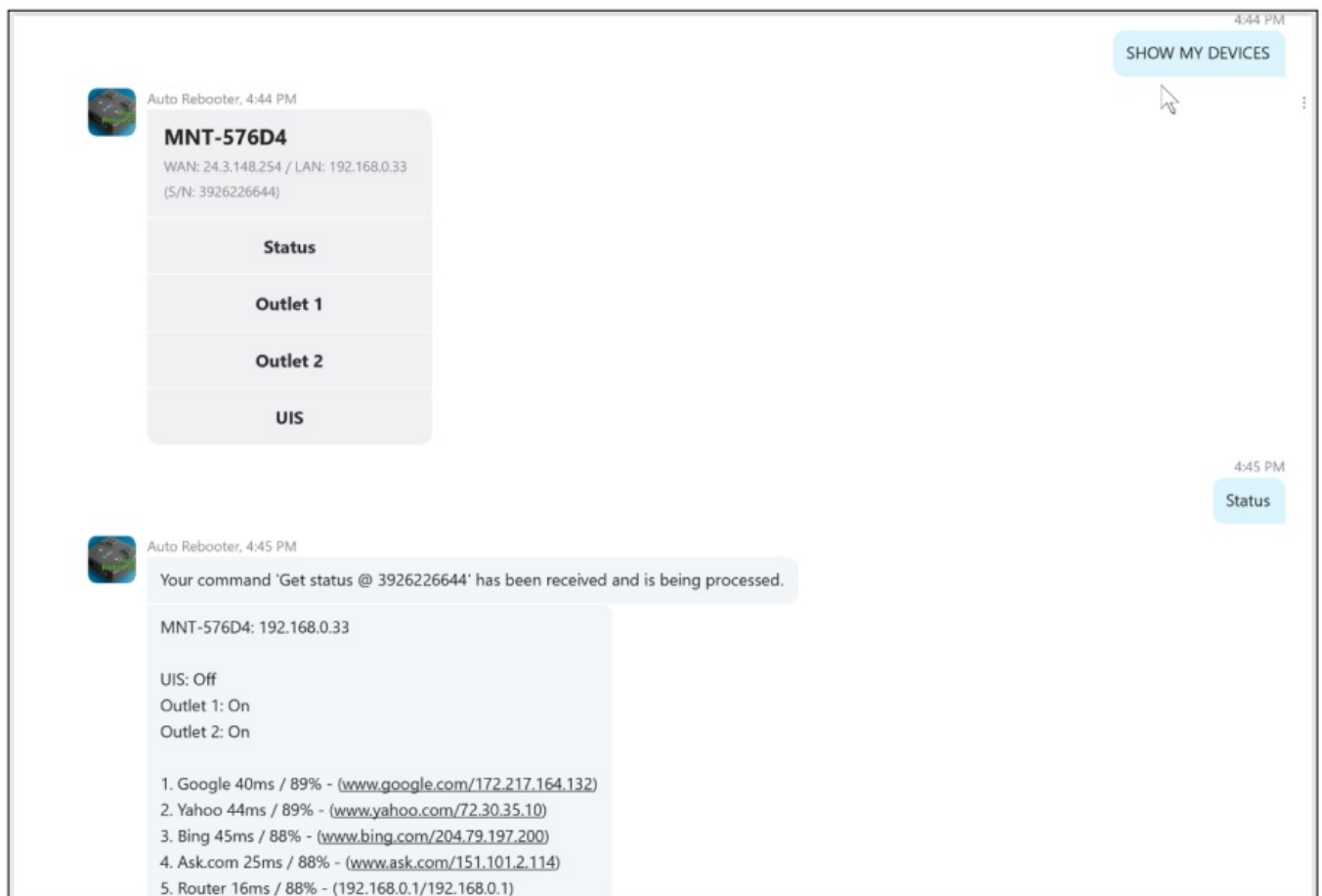


Click Send Message to begin a messaging session.

Type HELP to see the available commands. Type Get My ID to retrieve the security ID required to connect with your MSNswitch.



Copy the ID from the Skype response and paste it into the ID field of the MSNSwitch's web interface. Click ADD to save the settings. In Skype, enter the command Show My Devices and press Enter. The response will be a menu of your devices and actions you can take. Click any of the menu buttons for more actions.



## Google Hangouts Chat

Support for Google messaging is being migrated from Google Hangouts to Google Chat. Google Chat support will be available in an upcoming MSNSwitch firmware release.

## REST API

Basic functions of the MSNSwitch can be controlled through a series of HTTP Requests. You must first add the IP address of the computer making the requests to the MSNSwitch's API Whitelist on the System menu. If you wish



to use HTTPS, you must first import your browser's SSL certificate into the MSNSwitch.

## Get the Status of the MSNSwitch

### HTTP Request:

- URL: "http://<IP>/api/status"
  - Where
    - IP = the IP address of the MSNSwitch

JSON format:

```
{
  "connections": [
    {
      "assign": {ASSIGN}
      "label": {LABEL}
      "host": {HOST}
      "ip": {IP}
      "resp": {RESP_TIME}
      "timeout": {TIMEOUT}
      "lost": {LOST}
    },
    ...
  ],
  "status": {
    "outlet": [
      {
        "name": {OUTLET1_NAME},
        "status": {OUTLET1_STATUS},
        "reset_only": {OUTLET1_RESET_ONLY}
      },
      {
        "name": {OUTLET2_NAME},
        "status": {OUTLET2_STATUS},
        "reset_only": {OUTLET2_RESET_ONLY}
      }
    ],
    "uis": {UIS_STATUS}
  }
}
```

### Where:

- ASSIGN:
  - string: "NONE", "OUTLET1", "OUTLET2", "BOTH"
- LABEL:
  - string: Site Label.
- HOST:
  - string: Website / IP Address.
- IP:
  - string: IP Address.
- RESP\_TIME:
  - digit: Site response time. (unit: millisecond)

- TIMEOUT:
  - digit: Count of timeout.
- LOST:
  - digit: Percent of ping lost.
- OUTLET\_NAME:
  - string: Outlet Name.
- OUTLET\_STATUS:
  - boolean: false means Off, true means On.
- OUTLET\_RESET\_ONLY:
  - boolean: false means Off, true means On.
- UIS\_STATUS:
  - boolean: false means Off, true means On.

Examples in this section are shown using cURL for Windows. Any software capable of sending and processing HTTP packets can be used. The API's required "--header" parameters match cURL's defaults and are shown for completeness. They can be omitted if your software defaults to these values as well.

### EXAMPLE: Get Status

```
curl -url "http://192.168.0.62/api/status" -data "user=admin&password=WEB_PASSWORD" -http1.1 -header "Accept-Encoding: gzip, deflate" -header "Accept: */*"
```

### OUTPUT

- {"connections":
  - { "assign": "BOTH", "label": "Google", "host": "www.google.com", "ip": "142.251.40.132", "resp": 21, "timeout": 4, "lost": 0 }
  - { "assign": "BOTH", "label": "Yahoo", "host": "www.yahoo.com", "ip": "74.6.143.26", "resp": 45, "timeout": 35, "lost": 0 }
- {"assign": "BOTH", "label": "Pinger", "host": "www.pinger.com", "ip": "69.64.32.114", "resp": 41, "timeout": 5, "lost": 0 }
  - { "assign": "BOTH", "label": "Ask.com", "host": "www.ask.com", "ip": "146.75.38.114", "resp": 29, "timeout": 6, "lost": 0 }
- {"assign": "NONE", "label": "Router", "host": "192.168.0.1", "ip": "192.168.0.1", "resp": 1, "timeout": 2, "lost": 0 }
  - { "assign": "NONE", "label": "", "host": "", "ip": "null", "resp": 0, "timeout": 0, "lost": 0 }
- {"assign": "NONE", "label": "", "host": "", "ip": "null", "resp": 0, "timeout": 0, "lost": 0 }, "status": { "outlet": [{ "name": "Outlet 1", "status": true, "reset\_only": false }, { "name": "Outlet 2", "status": true, "reset\_only": false } ], "uis": false }

### Control an Outlet

#### HTTP Request:

- HTTP URL: http://<IP>/api/control?target=<TAR>&action=<ACT>
- Where:
  - IP: The IP address of the MSNSwitch
  - TAR: "outlet1", "outlet2", "outlet\_all", "uis"
  - ACT: "on", "off", "reset"

### Response Data:

JSON format:

```
{
    "outlet": [{OUTLET1_STATUS}, {OUTLET2_STATUS}],
    "uis": {UIS_STATUS}
}
```

OUTLET\_STATUS / UIS\_STATUS:

boolean: false means Off, true means On

### EXAMPLE: Turn off outlet #2

```
curl -url "http://192.168.0.62/api/control?target=outlet2&action=off" -data
"user=admin&password=WEB_PASSWORD" -http1.1 -header "Accept-Encoding: gzip, deflate" -header "Accept:
*/"
```

### OUTPUT

- {"outlet":[true,false],"uis":false}

### Send Heartbeat Trigger

- This function must first be configured in the MSNSwitch's web interface. The heartbeat function starts after the first heartbeat trigger command is received.

### HTTP Request:

- HTTP URL: "http://<IP>/api/heartbeat"
  - Where
    - IP = the IP address of the MSNSwitch

### Response Data:

JSON format:

```
{
    "heartbeat": "YYYY/MM/DD HH:MM:SS"
}
```

### Example: Send Heartbeat Packet

- curl -url "http://192.168.0.62/api/heartbeat" -data "user=admin&password=WEB\_PASSWORD" -http1.1 -header "Accept-Encoding: gzip, deflate" -header "Accept: \*/\*"
  - OUTPUT
    - {"heartbeat":"2023/02/21 08:42:48"}

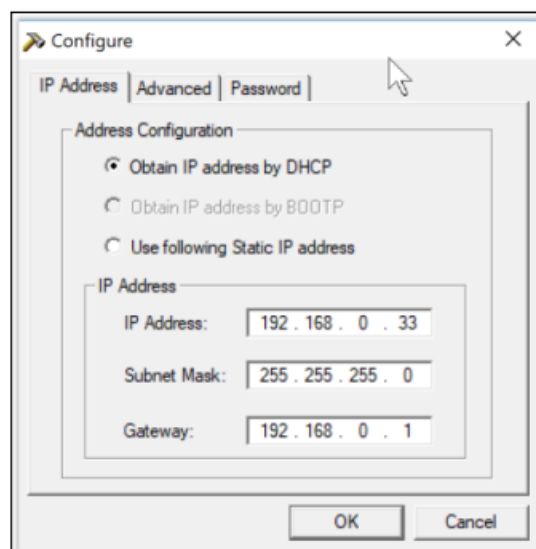
### Netility Utility

MegaTec provides a software utility for Windows and MAC called Netility that scan your LAN for compatible devices and allows you to change some configuration settings and upgrade firmware without accessing the internal web server pages. Download and install the Netility utility (Windows or MAC) from the [www.MSNSwitch.com](http://www.MSNSwitch.com) website's Download page. Connect the MSNSwitch to the same Ethernet LAN as your

PC. Open Netility and it will scan the LAN for any MegaTec devices and list them in its main window.



The Network Settings button allows you to configure the IP address and related network parameters of the MSNSwitch as well as set the password. The Launch Web User Interface will open the MSNSwitch's internal web server in your default browser.



## Updating Firmware

- Download the latest MSNSwitch firmware from the Support / Download page at:
- <http://www.MSNSwitch.com> or <https://www.proxycast.com/shopping/msnswitch.html>
- Be sure to download the correct file for your MSNSwitch model. Also download and review the firmware Release Notes for important information on the changes and new features.
- MSNSwitch firmware is delivered as a compressed .ZIP file – extract the .BIN file from the zip archive. The .BIN file is the actual firmware image file you need to use.

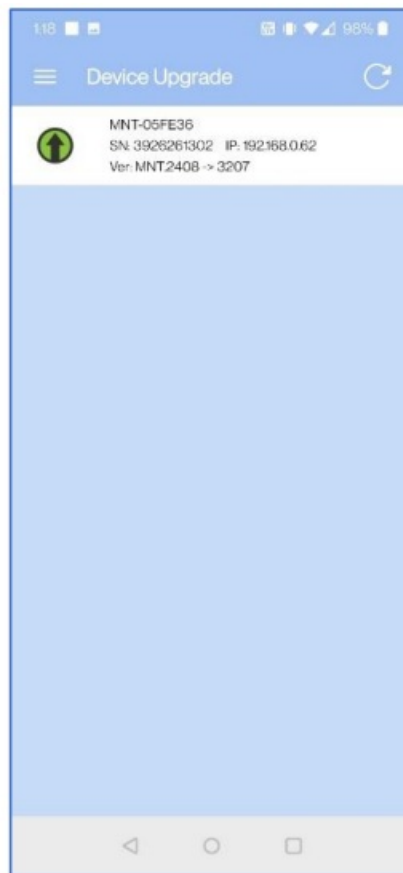
## Using the Web Interface

Log into the MSNSwitch's web interface and select the Save/Upgrade menu. Click the Choose File button to locate the .BIN file you downloaded above. Then click the Apply button to begin the update process. Do not power off the MSNSwitch or remove its Ethernet connection until the process is complete. Once the upgrade is complete and the web page refreshes to show the new firmware version number, we strongly recommend performing a factory reset from this screen to ensure that all new firmware parameters are properly initialized. You should also clear your web browser cache, then reconfigure your MSNSwitch as needed.

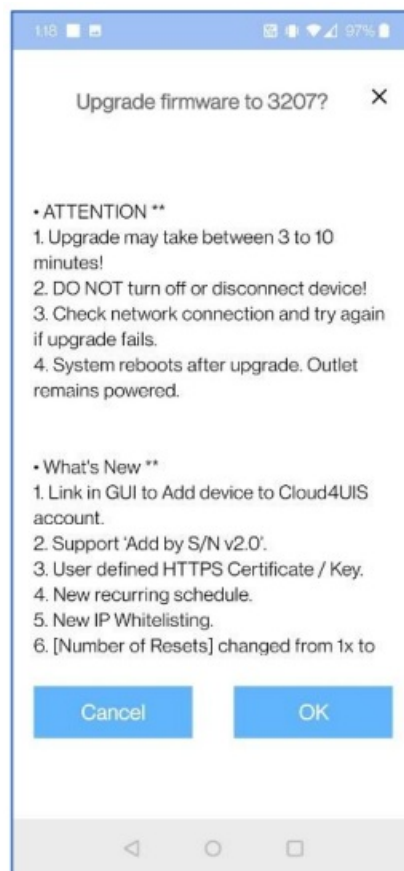
The screenshot displays the MSNSwitch web interface. On the left is a navigation sidebar with sections: Information (Status), Configuration (Settings), Logs (Data), and Help. The main content area has a header 'Save/Restore Settings' and a sub-header 'Upgrade Firmware'. Under 'Save/Restore Settings', there are fields for 'Settings' (with a 'Save' button), 'Restore' (with a 'Choose File' button and 'No file chosen' text, and a 'Restore' button), and 'Reset to factory default' (with a 'Reset' button). Under 'Upgrade Firmware', there are fields for 'Firmware Version' (MNT.NB.9319) and 'Location:' (with a 'Choose File' button and 'MNT.9731.bin' text, and an 'Apply' button). Below these fields are two red warning messages: '\* If web upgrade or reboot fails, redo upgrade using Utility in LAN.' and '\* Please save your settings before upgrading.'

## Using ezDevice

After you have added the MSNSwitch to your ezDevice/Cloud4UIS account, you can update the firmware. From the upper lefthand menu. Select Device Upgrade. ezDevice will scan all of your devices and indicate which ones have firmware updates available.

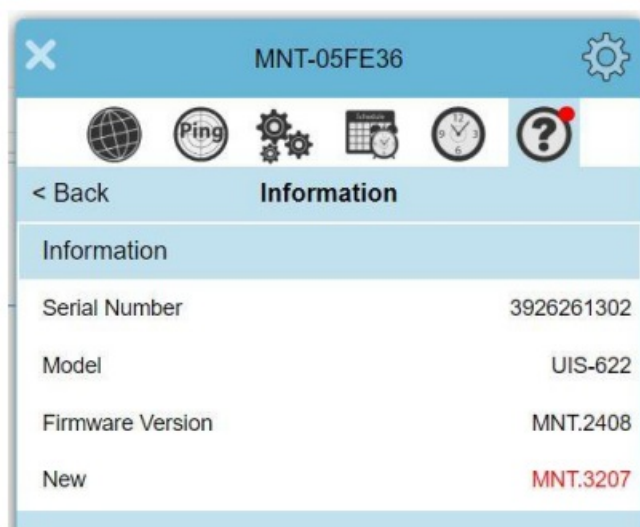


Tap the device you wish to upgrade. ezDevice will display the release notes for the new version highlighting the changes.



Tap OK to begin the firmware upgrade process. Do not turn off the MSNSwitch until the process is complete. You may tap the refresh arrow to check the upgrade status.


**Note:** A firmware update indicator is displayed on the Settings option for devices in [Cloud4UIS.com](https://cloud4uis.com), however, the firmware must be updated by one of the other methods described in this section.













## Using Netility

Launch the Netility software. Select the device you wish to upgrade and click the Firmware Update button. Select the .BIN file downloaded earlier and begin the firmware update process. Do not power off the MSNSwitch or remove its Ethernet connection until the process is complete. Once the upgrade is complete and the web page refreshes to show the new firmware version number, we strongly recommend performing a factory reset from this screen to ensure that all new firmware parameters are properly initialized. You should also clear your web browser cache, then reconfigure your MSNSwitch as needed.

## Documents / Resources

	<p><a href="#">proxicast UIS-722b Controlling The MSN Switch</a> [pdf] User Guide UIS-722b, UIS-622b, UIS-722b Controlling The MSN Switch, UIS-722b, Controlling The MSN Switch, The MSN Switch, MSN Switch, Switch</p>
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## References

-  [Ask.com - What's Your Question?](#)
-  [Cloud4UIS](#)
-  [Cloud4UIS](#)
-  [Ask.com - What's Your Question?](#)
-  [MSNSwitch](#)
-  [MSNSwitch](#)
-  [Blog and Ping Tool - Use Pingler.com to Drive Traffic your Blogs and Websites](#)
-  [Proxicast: Pro-Grade Wireless Solutions](#)
-  [Proxicast: Pro-Grade Wireless Solutions](#)
-  [Yahoo | Mail, Weather, Search, Politics, News, Finance, Sports & Videos](#)
- [User Manual](#)



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