



# proxicast UIS-622b MSNSwitch Internet Enabled IP Remote Power Switch Installation Guide

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**proxicast UIS-622b MSNSwitch Internet Enabled IP Remote Power Switch**



## Product Information

### Specifications

- **Manufacturer:** Proxicast, LLC
- **Model:** MSNSwitch
- **Address:** 312 Sunnyfield Drive Suite 200 Glenshaw, PA 15116
- **Contact:**
  - **Phone:** 1-877-77PROXI (1-877-777-7694), 1-412-213-2477
  - **Fax:** 1-412-492-9386
  - **Email:** [support@proxicast.com](mailto:support@proxicast.com)
  - **Website:** [www.proxicast.com](http://www.proxicast.com)
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### Introduction

- The MSNSwitch from Mega System Technologies, Inc (MegaTec) is designed to automatically power-cycle any AC-powered device when Internet connectivity is lost.
- It also allows manual reset or scheduled actions for its AC power outlets.

### Ways to Access and Control the MSNSwitch

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

## Product Usage Instructions

### 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.
- For example, if the IP address is 192.168.1.33, enter "<http://192.168.1.33>" into the browser.
- When logging into the MSNSwitch for the first time (or after a factory reset), you must create an administrator account and password.
- **Note:** For older firmware versions, the default username is "admin" and the default password is the last 6 characters of the MSNSwitch's MAC address (in uppercase).
- You can find the MAC address on the bottom label of the device.

### ezDevice Smartphone App

- To control the MSNSwitch using your smartphone, download and install the free iDevice app from the Apple AppStore (for iOS) or Google Play (for Android).

### FAQ

#### Q: How do I update the firmware of my MSNSwitch?

- **A:** If your MSNSwitch is running older firmware, you need to update it to support the iDevice app and Cloud4UIS.com web service.
- Please refer to the "Updating Firmware" section on page 15 of the user manual for instructions.

#### Q: How can I find 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.
- Please see page 14 of the user manual for more information.

### Document Revision History:

Date	Comments
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-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 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 web service was added in MSNSwitch firmware version MNT.9319 (04/24/2019). MSNSwitch’s running older firmware must be updated – see Updating Firmware on page 15.
- 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 MSNSwitch configuration web interface. On the left is a sidebar with navigation links: Information (Status), Configuration (Settings), Logs (Data), and Help (System Status, Save / Upgrade). The main content area is titled 'DNS Server IP' and contains several sections: 'DNS Server IP' with fields for Primary and Secondary DNS Server IP and a dropdown for 'Obtain DNS Server' (set to AUTO); 'Advanced Options' with fields for HTTP Port Number (80) and STUN Server (stun.l.google.com:19302); 'Dynamic DNS' with fields for DDNS Provider (None), Domain Name, Name, and Password; and a 'Cloud' section highlighted with a red box, containing a 'Cloud Service' dropdown set to 'Enable'. At the bottom right are 'Apply' and 'Reset' buttons.

## 1. 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.

The screenshot shows the 'Create a new Administrator account for this device' screen. It features three input fields: 'Enter new Login', 'Enter new Password', and 'Confirm Password'. Below these fields are two instructions: '1. Set between 1 to 31 characters.' and '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: UIS Reset On/Off Control:

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	
Outlet 2	On	

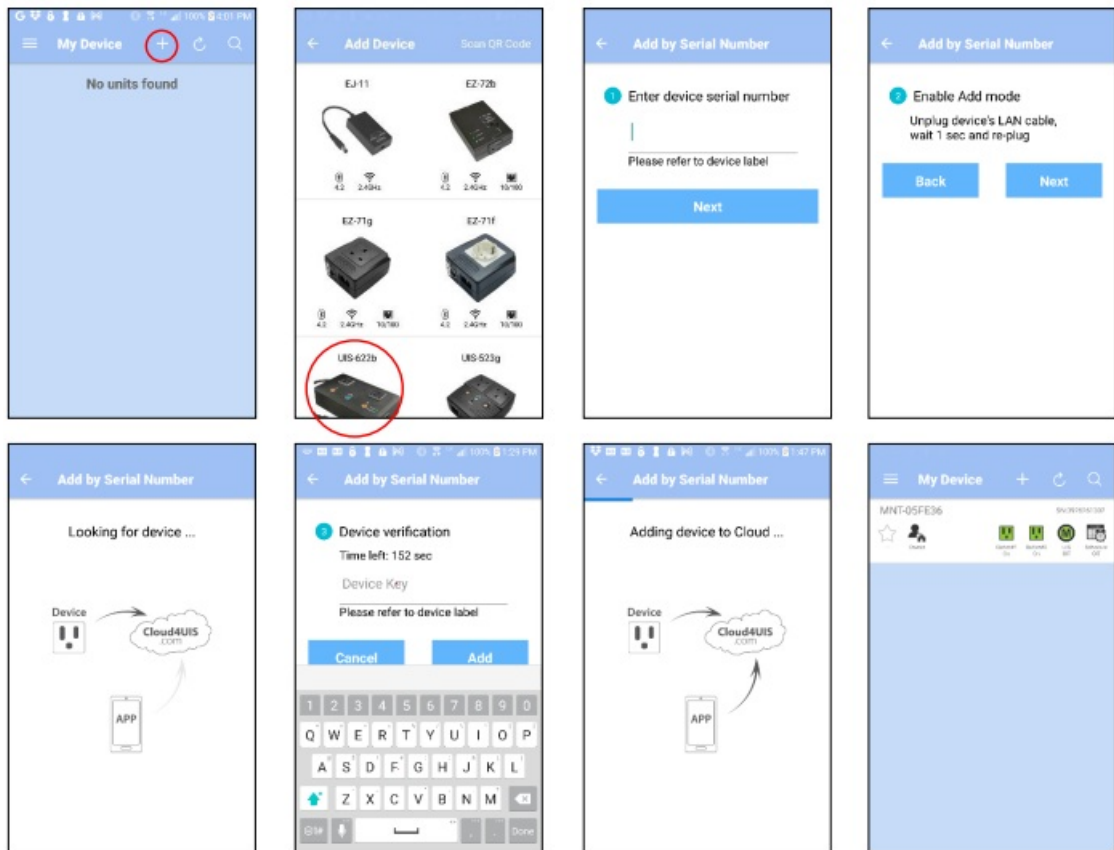
Outlet On Outlet Off Outlet is On, UIS Reset function is Off or Outlet is not Assigned

## 2. ezDevice Smartphone App

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





- 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 web service (see page 5).
- 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.



### 3. Cloud4UIS.com Web Service

- Open the Cloud4UIS.com website 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



- If you are adding a device for the first time, click the vertical dot icon  in the upper right corner and then select the Add icon  to open the Add Device screen.



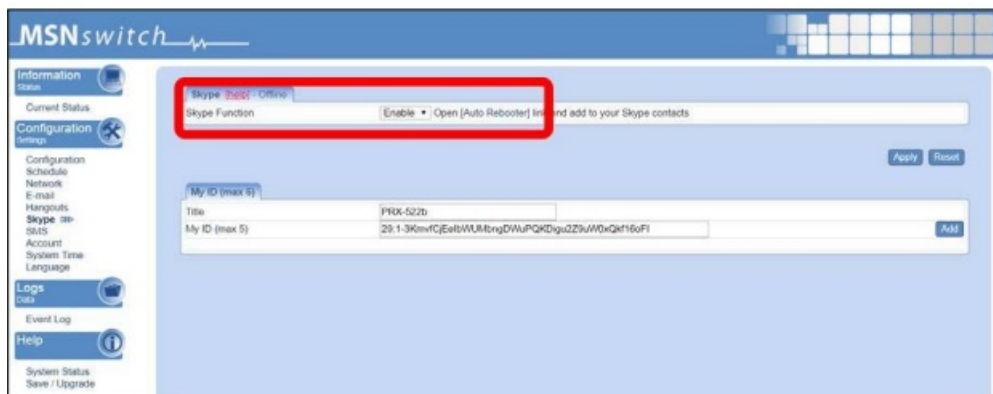
- The Add Device screen works the same as it does in the ezDevice smartphone app.



- See the ezDevice section on page 4 for instructions on completing the device add procedure.
- Devices added through Clolud4UIS.com will also be automatically synchronized with the iDevice app.

#### 4. Skype

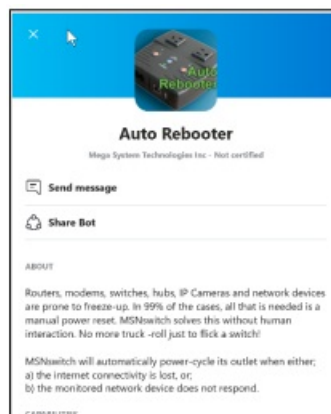
- In the MSNswitch's web interface, select the Skype menu and enable the Skype function.



- 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.



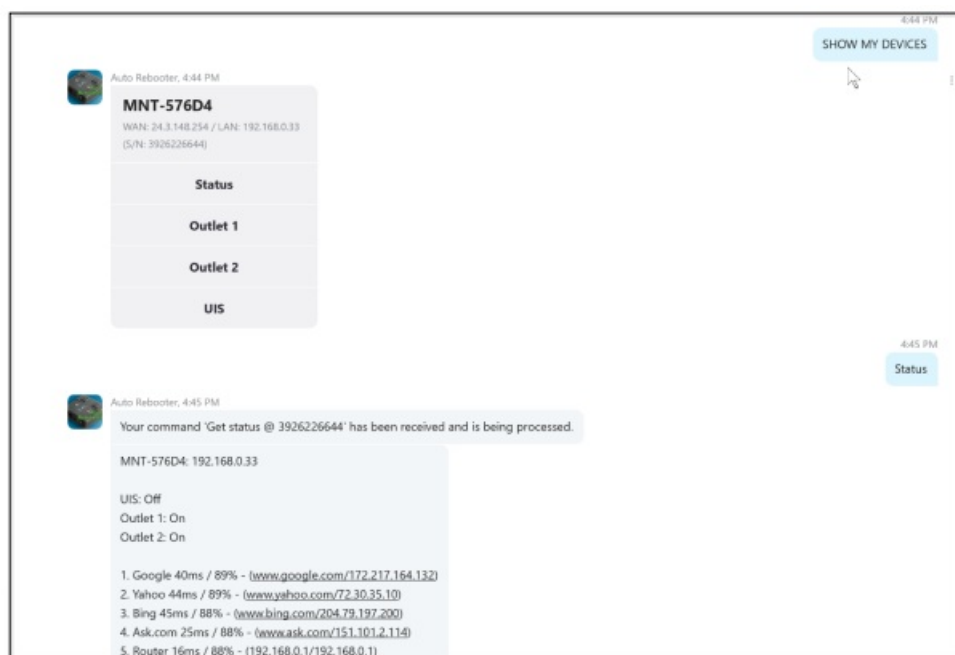
- Click Send Message to begin a messaging session.
- Type HELP to see the available commands. Type Get My ID to retrieve the security ID required to



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 action.



## 5. 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.

## 6. REST API

- For firmware versions MNT.3207 and later only
- (For earlier firmware versions, please contact Proxicast for additional documentation.)
- The 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

- **Where IP** = the IP address of the MSNSwitch

## Response Data:

```

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" -http.1.1 -header "Accept-Encoding: gzip, deflate" -header "Accept: \*/\*"

## OUTPUT

- {"connections": [{"assign": "BOTH", "label": "Google", "host": "[www.google.com](http://www.google.com)", "IP": "142.251.40.132", "resp":21, "timeout":4, "lost":0}{"assign": "BOTH", "label": "Yahoo", "host": "[www.yahoo.com](http://www.yahoo.com)", "IP":

- “74.6.143.26”, “resp”:45, “timeout”:35,
- {“assign”:“BOTH”, “label”:“Pinger”, “host”:“[www.pinger.com](http://www.pinger.com)”, “ip”:“69.64.32.114”, “resp”:41, “timeout”:5, “lost”:0}  
 {“assign”: “BOTH”, “label”: “Ask.com”, “host”: “[www.ask.com](http://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}], “us”: 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”, “us”
- **ACT:** “on”, “off”, “reset”

### Response Data:

- **JSON format:** { “outlet”: [{OUTLET1\_STATUS}, {OUTLET2\_STATUS}], “us”: {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], “us”: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”}

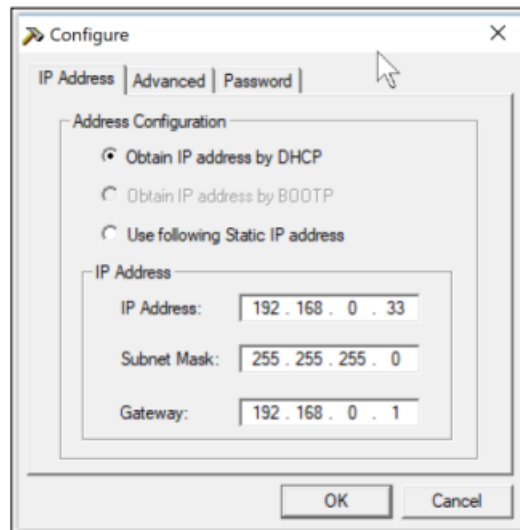
- **Example:** Send Heartbeat Packet `curl -URL "http://192.168.0.62/api/heartbeat" -data "user=admin&password=WEB_PASSWORD" -http1.1 -header "Accept-Encoding: gzip, deflate" -header "Accept: */*"`
- **OUTPUT** {"heartbeat": "2023/02/21 08:42:48"}

## Utility Utility

- MegaTec provides a software utility for Windows and MAC called Netility that scans 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 Utility 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.



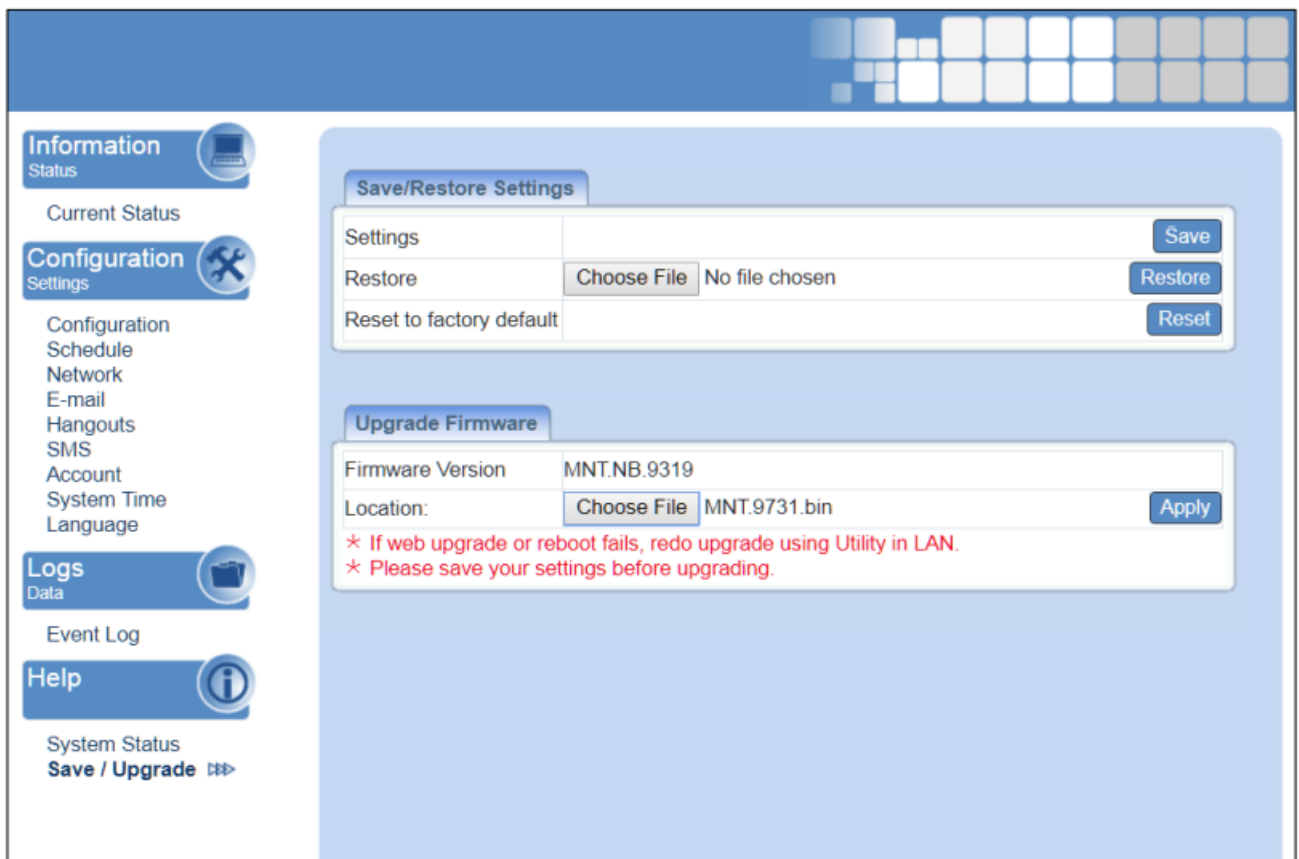
- 8. Updating Firmware

Download the latest MSNSwitch firmware from the Support / Download page at: <http://www.MSNSwitch.com> or <https://www.proxicast.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. The BIN file is the actual firmware image file you need to use.

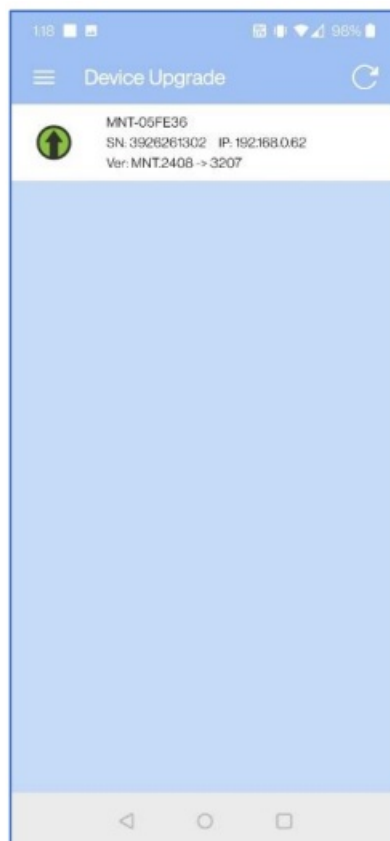
### Using the Web Interface

- 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.



## Using ezDevice

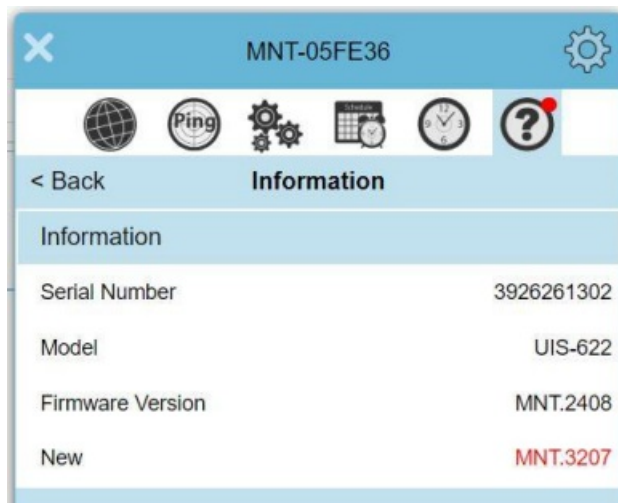
- After you have added the MSN Switch to your iDevice/Cloud4UIS account, you can update the firmware.
- From the upper lefthand menu. Select Device Upgrade. iDevice will scan all of your devices and indicate which ones have firmware updates available.



- 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, 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. # # #











- Proxicast, LLC
- 312 Sunnyfield Drive Suite 200
- Glenshaw, PA 15116
- 1-877-77PROXI 1-877-777-7694 1-412-213-2477
- Fax: 1-412-492-9386
- E-Mail: [support@proxicast.com](mailto:support@proxicast.com)
- Internet: [www.proxicast.com](http://www.proxicast.com)
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## Documents / Resources

	<p><a href="#">proxicast UIS-622b MSNSwitch Internet Enabled IP Remote Power Switch</a> [pdf] Installation Guide</p> <p>UIS-622b MSNSwitch Internet Enabled IP Remote Power Switch, UIS-622b, MSNSwitch Internet Enabled IP Remote Power Switch, Enabled IP Remote Power Switch, Remote Power Switch, Power Switch</p>
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## References

-  [Ask.com - What's Your Question?](#)
-  [Cloud4UIS](#)
-  [Cloud4UIS](#)
-  [Ask.com - What's Your Question?](#)
-  [MSNSwitch](#)
-  [MSNSwitch](#)
-  [Proxicast: Pro-Grade Wireless Solutions](#)
-  [Proxicast: Pro-Grade Wireless Solutions](#)
-  [Yahoo | Mail, Weather, Search, Politics, News, Finance, Sports & Videos](#)
-  [Proxicast: MSNSwitch Model UIS-622b](#)
- [User Manual](#)