



HALO DEVICE MANAGER (HDM) MANUAL



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HALO DEVICE MANAGER MANUAL

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About this Document

This manual is intended for administrators and users of IPVideo HALO Smart Sensor, and is applicable to hardware version 2, firmware base 2.2 and HALO version 1.30 and later. It includes instructions for using the HALO Device Manager software product on your network. Previous experience of networking will be of use when using this product. Later versions of this document will be posted at www.ipvideocorp.com.

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Technical Support via Telephone: (631) 647-9970

Live technical support is available Monday through Friday (excluding holidays) between the hours of 8 AM and 5 PM Eastern Standard Time.

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HALO DEVICE MANAGER MANUAL

Introduction

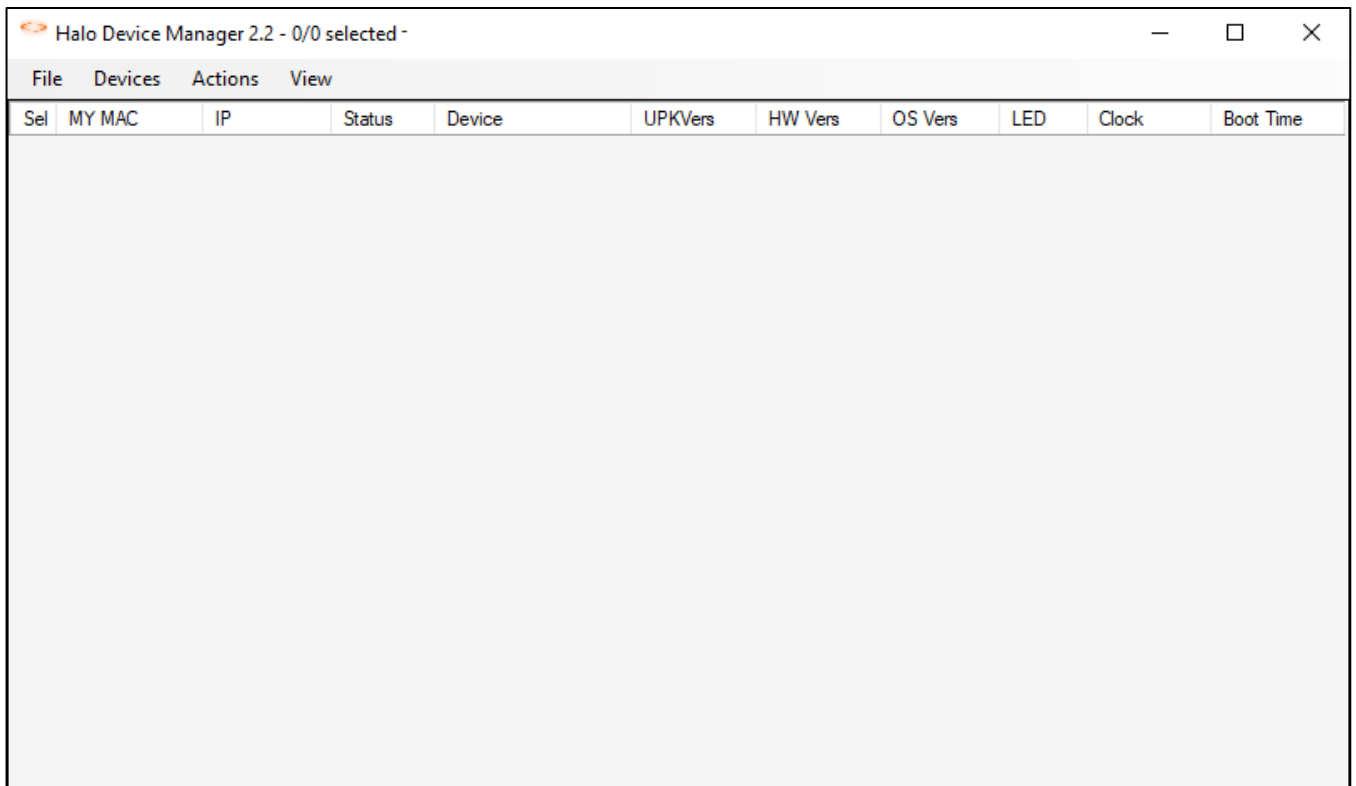
HALO Smart Sensor is an IoT device that detects environmental changes that occur in many locations including privacy concern areas where surveillance cameras can't be installed. HALO DEVICE MANAGER (HDM) is a software tool that can be used to program your HALO Smart Sensors. HDM can search for HALOs across a network, install firmware, make setting changes, open web pages, back up settings, and view device status.

Setup Prerequisites

1. Install HDM:
 - a. Download HDM from the IPVideo website at: <https://ipvideocorp.com/halo-downloads/>
 - b. Run the installation file.
 - c. Run the HDM software tool by double clicking on the HALO Device Manager icon.
 - d. "Accept" EULA.
2. One or more HALO Smart Sensor devices connected to a standard office network where the steps in the HALO Installation Procedure have been followed resulting in confirmation that the device is operating and physically connected to the network.
3. The network must be (at least temporarily) provided with a DHCP Server to provide initial IP Addresses.
4. If static addressing is planned, then the correct subnet mask, gateway address, and DNS address must be known.
5. An accessible Windows 10 PC connected to the same network with the Chrome web browser installed.

Finding HALO Smart Sensors on a Network

Start HALO DEVICE MANAGER (HDM) on the PC by double clicking the program icon.



Devices:

Search for HALO Smart Sensors on the network. There are different ways to do this:

Device Scan:

Searches for HALOs that are on the local network. This search does not cross subnets and returns IPv4 IP Addresses.

IP Scan:

Searches for HALOs using a starting IP address and a quantity of IP addresses from that starting point.

For example:

“Start IP Address”: 192.168.1.11 & “Number Of IP Addresses”: 50 will search 192.168.1.11 – 192.168.1.60 for HALOs.

This search does look at each IP address in the sequence 1 at a time, thus it is recommended to include only the range required to be searched.

IPv6 Scan:

Searches for HALOs that are on the local network. This search does not cross subnets and returns IPv6 IP Addresses.

Add Device:

Search for a single HALO using a specific IP Address. This method requires the “Port” number, “User” and “Password” to be input.

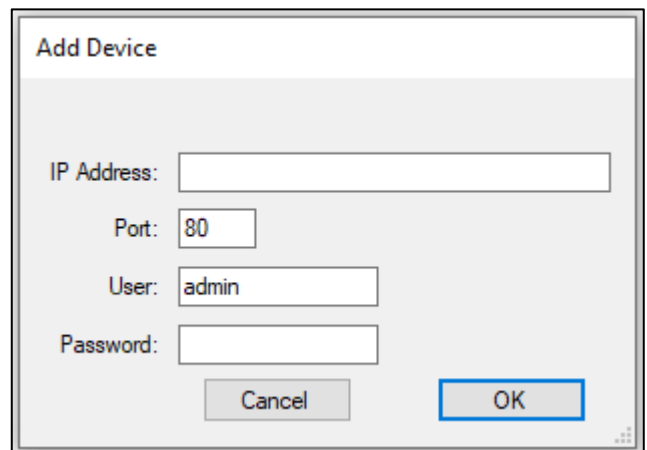
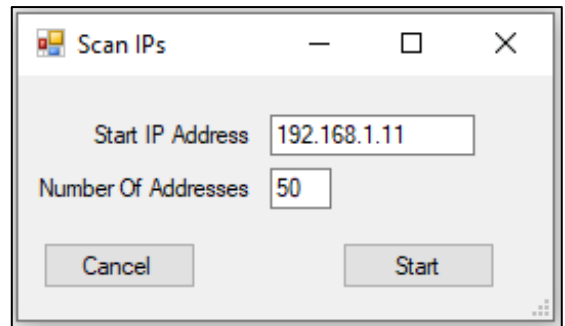
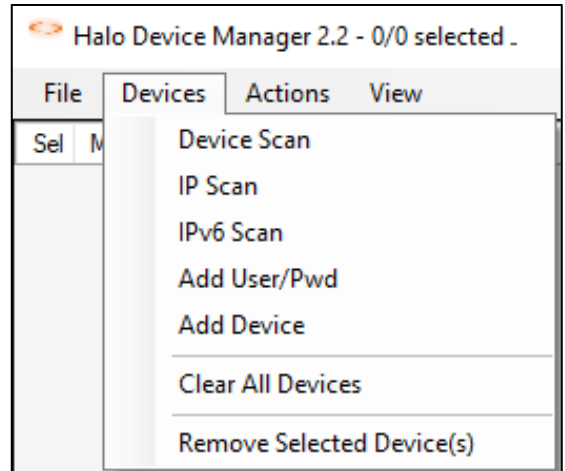
Using a single method to search, then repeating that method or using another method will continue to add HALOs to the list of found devices. This will not remove HALOs from the device list.

Clear All Devices:

Removes all HALOs from the device list.

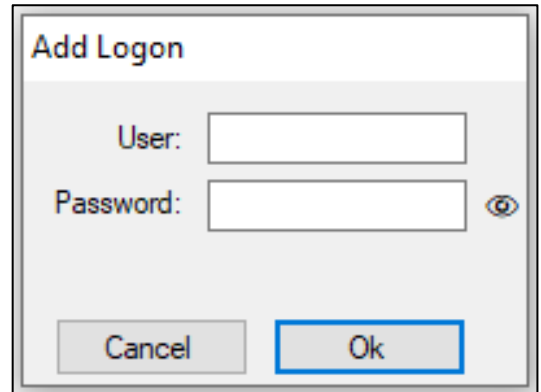
Remove Selected Devices:

Removes all HALOs that have their check box selected on the far left from the device list.



Add User/Pwd:

Once HALO devices are listed if the default username and password are still in the HALO, HDM will automatically authenticate and device changes can be made. Any other usernames or passwords must be added one at a time by clicking “Add User/Pwd” then inputting the administrator credentials. This process can be repeated if multiple HALO’s on the list have different usernames or passwords. The eyeball icon next to the password can be used to view the input characters.



Username and Password:

The default Username is “admin” and the default password is “changeme”. HALO contains a security feature that requires a user to generate a new means of authentication before access is granted to the device for the first time.

***If the HALO that is updated from a version prior to 2.2 and has the default password it will change the existing password to “changeme” and require a password change on first login.**

HALO restricts access to the built-in web server by usernames and passwords at two different levels, “admin” and “viewer”.

Username Requirements for Admins:

- 5+ Characters
- No Spaces or Special Characters

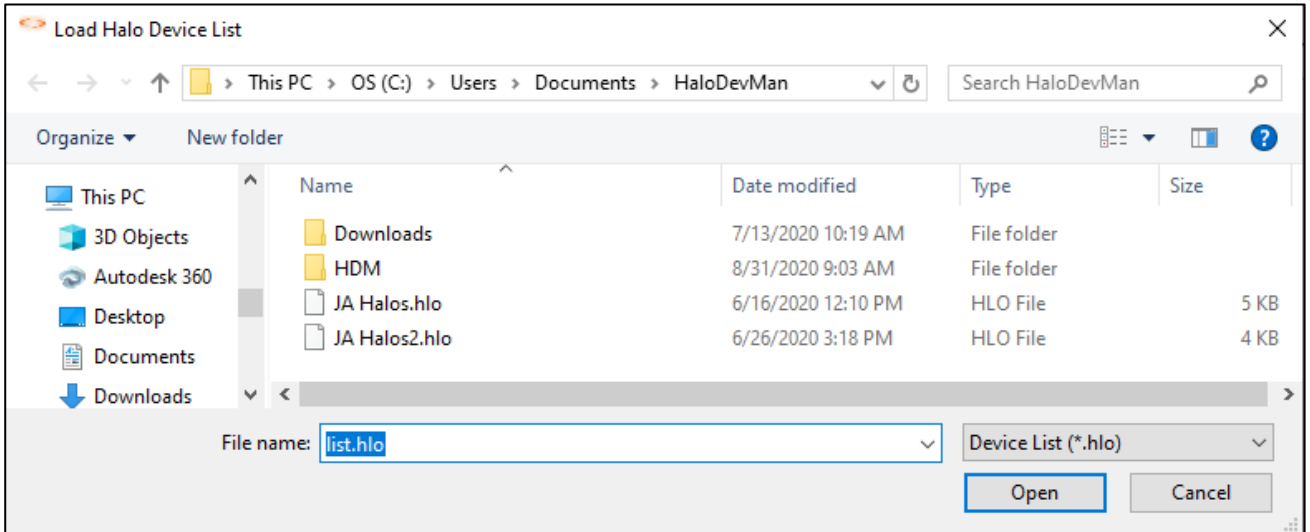
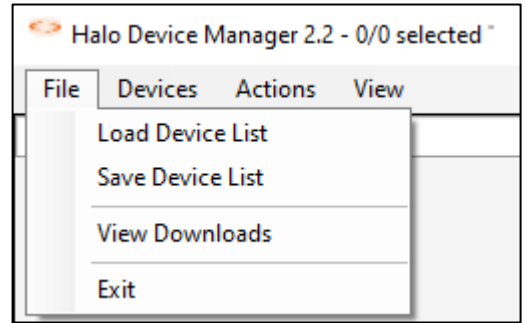
Password Requirements for Admins:

- 8+ Characters
- 1+ Lowercase Letter
- 1+ Uppercase Letter
- 1+ Numeric Character
- 1+ Special Character (!@#\$%^&* _ - are allowed)
- Cannot Contain Username

An END USER LICENSE AGREEMENT (EULA) has been provided at first login to every HALO to ensure proper utilization of the HALO software and present important terms, restrictions on use, limits on liability of IPVideo to the end-user, and other useful clauses. At logon the user will be required to add the end username, email address, organization and title to acknowledge.

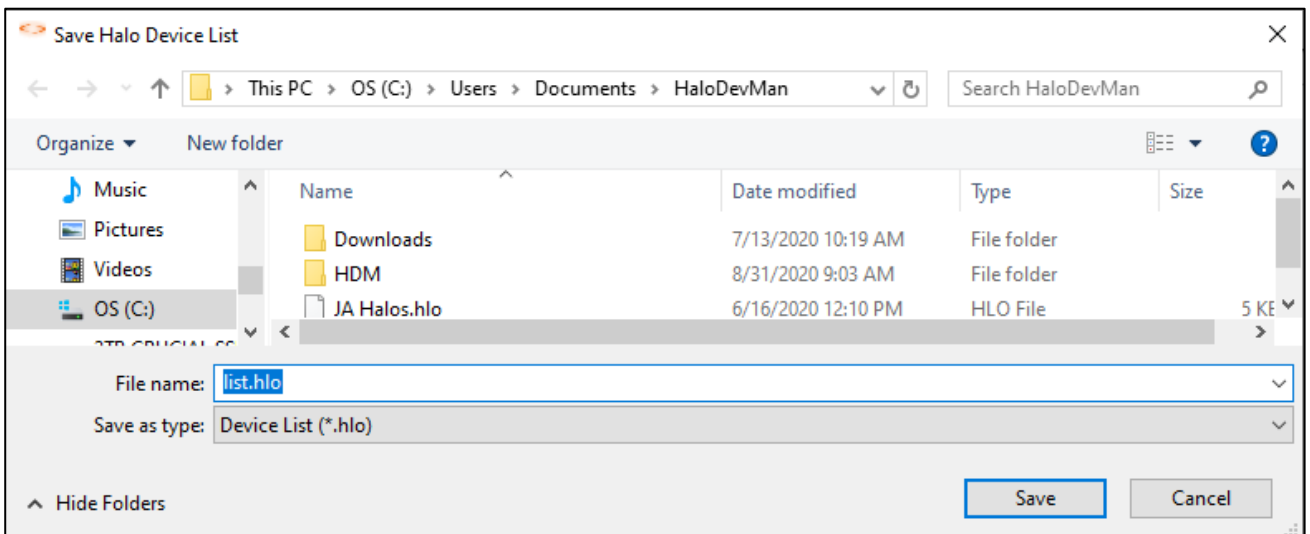
Load Device List:

Saved lists of HALOs can be loaded using the “Load Device List” feature. After clicking “Load Device List” navigate to the location of the “.hlo” file and “Open” it. This will load all of the HALO’s stored in that list, including the username and passwords. This file can be transferred to other PC’s for easy search of HALOs, however, for security reasons only the device list are included in the file. **Username and passwords will NOT transfer with this file.**



Save Device List:

Lists of HALOs can be saved using the “Save Device List” feature. After clicking “Save Device List” navigate to the location where it is to be saved. Then name the file, making sure to keep the .hlo extension in the name. By default the file will be stored as “list.hlo” in the folder “C:\Users\Documents\HaloDevMan”. This file can be transferred to other PC’s for easy search of HALOs, however, for security reasons only the device list are included in the file. **Username and passwords will NOT transfer with this file.**



Navigating HDM:

HALO Device Manager can be used to program many HALOs at one time. The far-left column “Sel” is the device selection indicated by check boxes. Clicking any single check box will select or de-select a HALO. Double-Clicking the “Sel” at the top of the column will select or de-select all HALOs from the list. When using the “Actions” any selected HALO’s will be effected by that “Action.”

Sel	MY MAC	IP	Status	Device	UPKVers	HW Vers	OS Vers	LED	Clock	Boot Time
<input checked="" type="checkbox"/>	B827EB06799B	10.100.210.75	connected	Jonathan Halo Texas 2	2.2.1	2	2.2	0	31 11:51:12.6	31 09:10:19.7
<input checked="" type="checkbox"/>	B827EBFBA4B3	10.100.210.45	connected	Halo Smart Sensor	2.2.1	2	2.2	0	31 11:51:10.1	31 09:09:39.4
<input checked="" type="checkbox"/>	B827EBBD86CA	10.100.210.44	connected	Jonathan_Halo_Texas	2.0.2	2	2.2	0	31 11:51:10.2	26 08:38:35.9
<input checked="" type="checkbox"/>	B827EB9E9660	10.1.7.191	connected	VMS_TESTING	2.2.1	2	2.2	0	31 11:51:11.7	27 15:19:47.6
<input checked="" type="checkbox"/>	B827EB0EED36	10.1.7.13	connected	IPV_Conference_Room	2.2.1	2	2.2	0	31 11:51:12.0	27 15:21:04.6
<input checked="" type="checkbox"/>	B827EB60AE08	10.1.7.12	connected	IPV_Classroom	2.2.1	2	2.2	0	31 11:51:11.3	27 15:22:12.3
<input checked="" type="checkbox"/>	B827EB69855C	10.1.6.231	connected	Fish_Bowl	2.2.1	2	2.2	0	31 11:51:11.3	27 15:20:54.8
<input checked="" type="checkbox"/>	B827EB39AD6C	10.1.6.225	connected	IPV_Hall_Ceiling1	2.0	2	2.2	0	31 11:51:10.9	21 04:09:27.4
<input checked="" type="checkbox"/>	B827EB724D20	10.1.6.186	connected	Media_Room	2.2.1	2	2.2	0	31 11:50:38.9	27 15:18:27.7
<input checked="" type="checkbox"/>	B827EB41175B	10.1.6.159	connected	Cafeteria	2.2.1	2	2.2	0	31 11:51:11.8	27 15:17:33.2
<input checked="" type="checkbox"/>	B827EBCDF157	10.1.6.144	connected	IPV_Bathroom_LRG	2.1	2	2.2	0	31 11:51:11.6	18 15:37:54.6

Default View:

HDM will show information about each HALO it is connected to. To show most of the information the HALO must be connected, and an administrator username and password used.

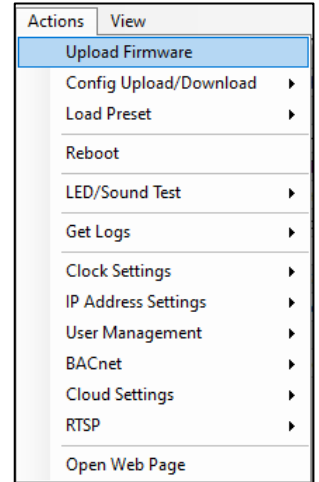
- MY MAC: MAC address.
- IP: IP Address, this can be displayed as IPv4 and IPv6 formats depending on how it was discovered.
- Status: Current status of the HALO response to HDM. “connected” indicates that a HALO is authenticated and awaiting commands from HDM.
- Device: Device Name..
- UPKVers: Firmware Version.
- HW Vers: Hardware Version.
- OS Vers: Operating System Version.
- LED: LED Color status, represented numerically.
- Clock: Current clock time in DD HH:MM:SS format.
- Boot Time: Time HALO booted up in DD HH:MM:SS format.

Changing the Fields Shown:

HDM has many fields that can optionally be shown or hidden. By selecting the “View” drop down these can be selected and de-selected as desired.

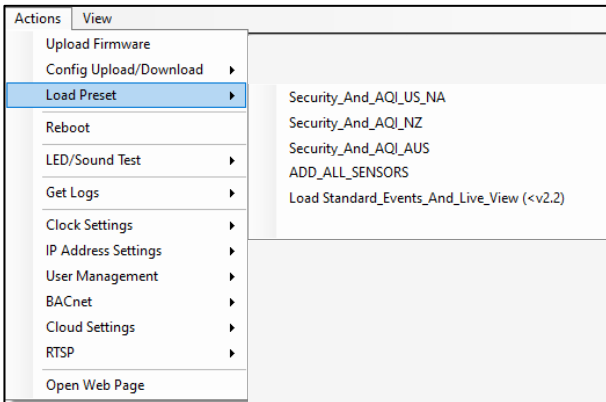
Upload Firmware:

HALO Device Manager can upload firmware on many HALOs at one time. Select HALOs for update then under the “Actions” drop down select “Upload Firmware”. A prompt for the firmware file name will pop up and allow for navigation to the firmware file location. Downloading HALO Device Manager also includes a download of the current firmware at that time. The default location for this firmware is: C:\Program Files (x86)\HaloDevMan
 Firmware files are in “.upk” file format. Once selected the update will begin automatically. When updating multiple HALOs, HDM will queue all of them and complete the firmware upgrade tasks. The status may fluctuate on each of them as this occurs, the process for each may take a few minutes. Once complete, the “Status” will display “connected” and the “UPKVers” will display the loaded firmware version. Prior to updating firmware, it is best practice to document any changes made to thresholds and advanced conditions.* These changes can be re-programmed into HALO once the update is complete. Firmware can be downloaded from: <https://ipvideocorp.com/halo-downloads/>



****DO NOT REMOVE POWER WHILE HALO IS REBOOTING****

After upgrade, click the dropdown menu “Actions” and select “Load Preset” then select the desired preset to load. *Loading a preset will erase any custom Live View, Events and Actions made prior.



Load Preset:

HALO Device Manager can load a preset that includes “Events” (including all of their “Thresholds and “Advanced” conditions) and “Live View” settings.

Security_And_AQI_US_NA: Includes North America Includes North America security and AQI based events, specifically Gunshot, Help (911), Vape, THC, Masking, Aggression, Tamper, and AQI.

Security_And_AQI_NZ: Includes New Zealand security and AQI based events, specifically Gunshot, Help (111),

Vape, THC, Masking, Aggression, Tamper, and AQI.

Security_And_AQI_AUS: Includes New Zealand security and AQI based events, specifically Gunshot, Help (000), Vape, THC, Masking, Aggression, Tamper, and AQI.

ADD_ALL_SENSORS: Includes all current signatures and sensors that have been pre-created including Gunshot, Help (whichever one was already selected: 911, 111, 000), Vape, THC, Masking, Aggression, Tamper, PM1, PM2.5, PM10, NH3, NO2, Sound, AQI, CO2eq, Pressure, TVOC, CO, Temp_F, Temp_C, Humidity, and Light.

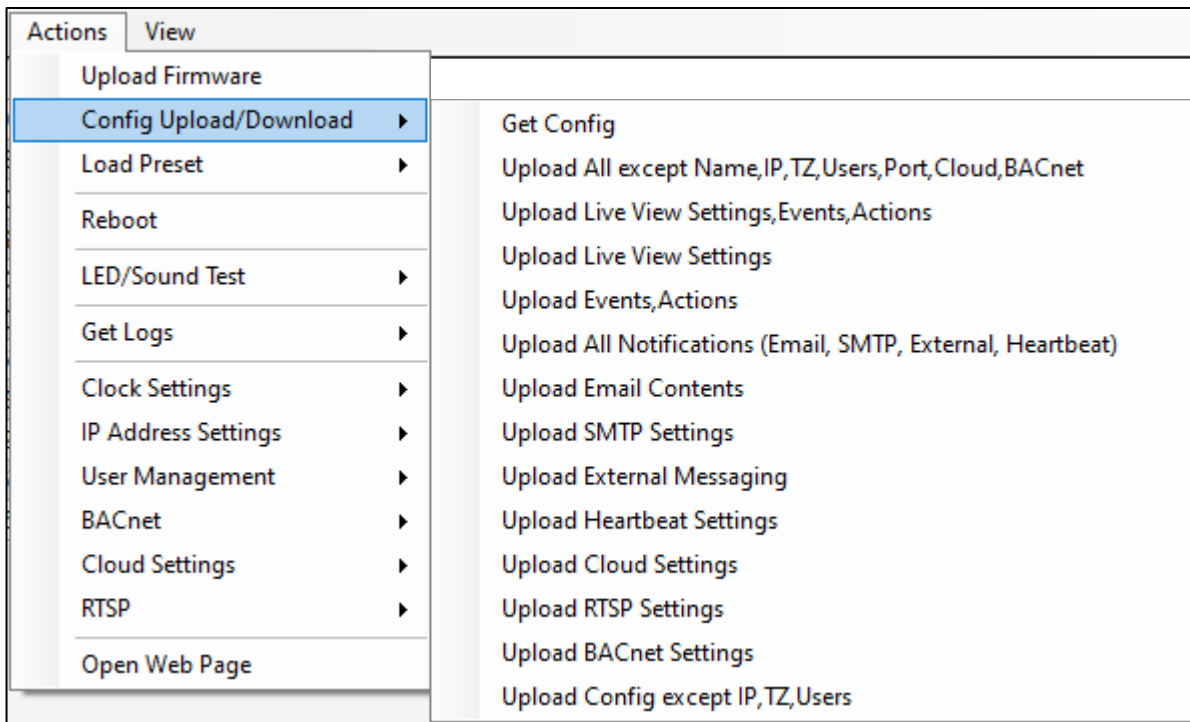
Load Standard_Events_And_Live_View (<2.2): Loads standard events and live view for firmware versions before v2.2.

Config Upload/Download:

The "Get Config" button will download all HALO settings except User, Time Zone, and IP information from each selected HALO to a unique file for each HALO selected. This file can be used as a backup or template for other HALO's. The file type will be saved as "serverConfig_MACADDRESS .json" and the default location these files are stored is:

C:\Users\Documents\HaloDevMan\Downloads

The "Upload" options will load selected settings from a file that was previously downloaded from a HALO. Choosing from the settings dropdown will identify what is loaded into the HALO from that file. Select Upload setting and then navigate to the desired .json file, select file and click "Open". The upload will load immediately, however, there is no notification that it was completed in HDM.



Reboot:

The "Reboot" command will reboot the HALO.

LED/Sound Test:

From this menu select a color for the multicolor LED to change to for 30 seconds, or activate the Siren to play on selected HALO's.

Get Logs:

Downloads selected log type from all selected HALO's.

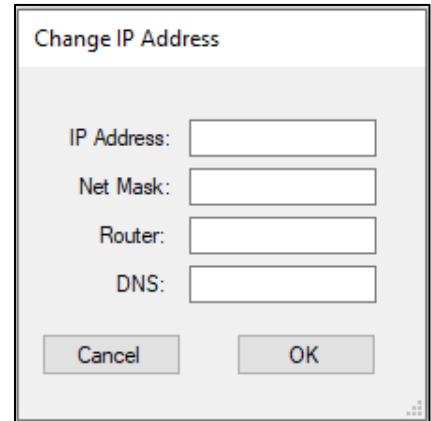
Clock Setting:

Choose the clock setting for the selected HALO's. Selection of NTP and Time Zone can be made in this menu.

IP Address Settings:

“Ethernet Use DHCP” sets the selected HALO’s as DHCP. This is the default setting for HALOs.

“Ethernet Static IP Range” will pop-up a box where the starting IP address for the selected group can be input. Settings here include IP Address, Netmask, Router, and DNS. The first selected HALO will take the IP Address input in that box and every HALO in the order they appear on the device list will take one digit higher in the last octet of that IP address until all HALO’s are assigned an IP Address.



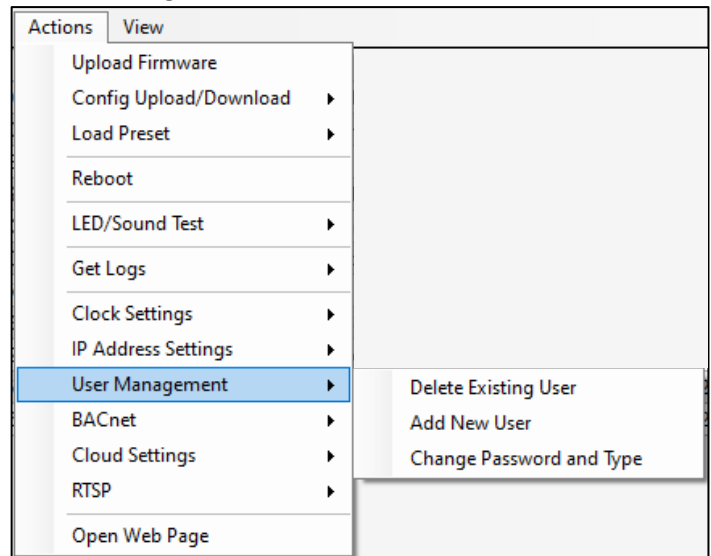
The dialog box titled "Change IP Address" contains four input fields: "IP Address:", "Net Mask:", "Router:", and "DNS:". Below the fields are two buttons: "Cancel" and "OK".

User Management:

Select “Delete Existing User” then type the name of the user that is to be deleted from all selected HALOs. Please be mindful that deleting all “Admin” users will require a Factory Reset.

Select “Add New User” to add a user to all selected HALO’s then type the username password and user level into the pop-up. HALO restricts access by usernames and passwords at two different levels, “admin” and “viewer”.

Select “Change Password and Type” to change the password and / or access level of a specific username for all selected HALOs. A pop-up will prompt for the username to be input, the new password to be selected and a drop down for access level selection. Click on the eye to view the password that was typed.



The "User Management" menu is shown with a list of actions on the left and a sub-menu on the right. The sub-menu includes "Delete Existing User", "Add New User", and "Change Password and Type".

BACnet:

Select “BACnet” then choose the drop down to perform the described action to all selected HALOs. BACnet can be turned ON or OFF and some of the global settings can be adjusted. See the BACnet section of the Administration Manual for details on BACnet settings.

Cloud Settings:

Cloud connection can be turned ON or OFF, this connection is for use with the IPVideo Cloud product offering only.

RTSP:

Select “RTSP” then choose the drop down to perform the described action to all selected HALOs. RTSP can be turned ON or OFF and some of the global settings can be adjusted. See the RTSP section of the Administration Manual for details on RTSP settings.

Open Web Page:

Opens the main page of all selected HALOs in the default web browser. Set Chrome as default prior to use.

Naming HALO’s From HDM:

Right click any device listed and select “Change Device Name” then type the desired name and click “Okay”.



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