



Mimosa OS

User Guide



Mimosa OS

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Welcome to the User Guide for the Mimosa OS and User Interface.

This User Guide is intended to help set up the B5c as well as illustrate the benefits and details of the numerous tools available within the interface.

Click the sections in this menu to navigate within the document.

User Interface Overview

The screenshot displays the Mimoso user interface for configuring a device. The interface includes a top navigation bar with a 'logout' button, a side navigation pane with 'Device info', 'Device', 'Link', and 'Remote device' sections, and a main content area showing device details. Callouts provide the following information:

- Cancel changes:** Points to the 'Cancel' button at the top of the configuration window.
- Log out or change user:** Points to the 'logout' button in the top right corner.
- Return to the Home menu:** Points to the 'mimoso' logo and a home icon at the bottom left.
- Use the side navigation pane to move between sections:** Points to the 'Device' section in the left sidebar.
- Changes to configuration will ONLY take effect after selecting Save:** Points to the 'Save' button at the top right of the configuration window.
- Items marked in Orange can be configured:** Points to the 'Device name' and 'Install date' fields, which are highlighted in orange.
- Items in Black are fixed and cannot be configured on current screen by user:** Points to the '2.4 GHz MAC', '5GHz MAC', and 'Ethernet MAC' fields, which are highlighted in black.

| Field | Value |
|---------------------------|-------------------|
| Device name | 710-demo-1 |
| Install date | 2/12/13 |
| IP address | 192.168.20.144 |
| Model | B5-A |
| Serial number | 00000000002341 |
| Version | 0.5-13-g10a6f9a |
| Country | United States |
| Temperature | 38 |
| Last reboot | 3d 3h 51m 12s |
| 2.4 GHz MAC | Not connected |
| 5GHz MAC | 00:26:86:01:E2:23 |
| Ethernet MAC | 00:26:86:01:E6:68 |
| Wireless mode | |
| Number of antennas | 2 |
| Antenna cable attenuation | 100 |
| GPS Location | Unknown |

Accessing the Interface

Accessing the interface requires that the device is connected to a power source. The device has three separate modes of access to ensure easy set-up and management. The device can be accessed without connection to the LAN (via 2.4 GHz mobile device connection), through the local LAN (if the device is connected to the LAN) or from outside of the LAN via a public IP address.

| Access Method | Connecting to GUI |
|---|---|
| Via 2.4 GHz Wireless Connection | On any device with an 802.11 2.4GHz connection, go to the wireless network listing and connect to the "mimosanetworks" wireless network (SSID). Once connected, type 192.168.1.1 (OR URL TBD LATER) into your mobile device browser. |
| Via Ethernet interface or in-band over the Wireless link | <p>By default, the device IP address is 192.168.1.20 and can be accessed via the Ethernet port using this IP address in any standard Web browser.</p> <p>To access the device via a locally connected computer initially (on the same LAN or directly to the Ethernet port), the computer's IP address must be on the same subnet as the above address.</p> <p>Once you have modified the IP address (static or DHCP) of the Device for remote management purposes (in-band over wireless or over the Ethernet interface), the new specified IP address must be used to access the device. This is important to do in order to avoid IP address conflicts with other devices on the network.</p> <p>Current IP addresses of different Mimosa devices on the network can be identified using the Mimosa Device Discovery tool.</p> |

Logging In



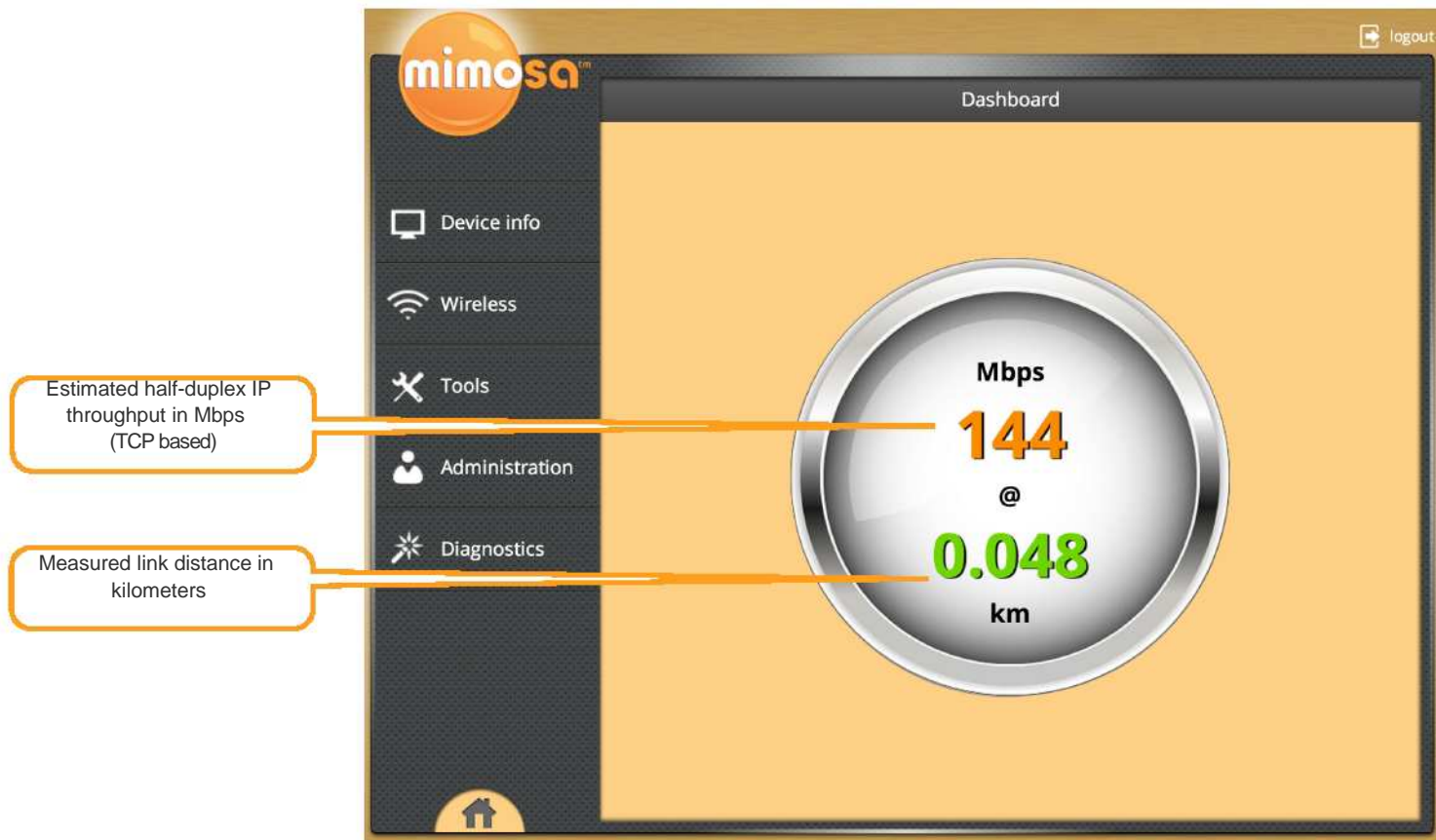
After connecting via one of the above methods, the device will prompt you to log-in with a username and password.

The default factory configured user accounts are:

| Username | Password | Access Rights |
|------------------|---------------|---|
| Configure | Mimosa | All modifiable elements can be configured By user |
| Monitor | Mimosa | User cannot configure device |

The Dashboard

After logging into the interface, if the B5c is connected to another Mimosa B5c the home page will show a dashboard that reflects the current performance of the device and link information. You are now ready to explore the sections within the interface to setup, manage, and monitor your B5c.



Device Info

The **Device Info** tab contains status and current configuration summary about your device, remote devices, and the wireless link.

The screenshot shows the Mimosa web interface with the 'Device Info' tab selected. The interface is divided into three main sections: 'Device info', 'Device', and 'Link'. The 'Device' section contains a table of configuration details for a device named '710-demo-1'. Callouts point to each section with descriptive text.

Device info: Information and current configuration of the B5c

Device: All relevant specifications and send/receive info for the link between two Mimosa devices

Link: Information and current configuration of the remote B5c

| Field | Value |
|---------------------------|-------------------|
| Device name | 710-demo-1 |
| Install date | 2/12/13 |
| IP address | 192.168.20.144 |
| Model | B5-A |
| Serial number | 00000000002341 |
| Version | 0.5-13-g10a6f9a |
| Country | United States |
| Temperature | 38 |
| Last reboot | 3d 3h 51m 12s |
| 2.4 GHz MAC | Not connected |
| 5GHz MAC | 00:26:86:01:E2:23 |
| Ethernet MAC | 00:26:86:01:E6:68 |
| Wireless mode | |
| Number of antennas | 2 |
| Antenna cable attenuation | 100 |
| GPS Location | Unknown |

Device

| Device | |
|---------------------------|-------------------|
| Device name | 710-demo-1 |
| Install date | 2/12/13 |
| IP address | 192.168.20.144 |
| Model | B5-A |
| Serial number | 00000000002341 |
| Version | 0.5-13-g10a6f9a |
| Country | United States |
| Temperature | 38 |
| Last reboot | 3d 3h 51m 12s |
| 2.4 GHz MAC | Not connected |
| 5GHz MAC | 00:26:86:01:E2:23 |
| Ethernet MAC | 00:26:86:01:E6:68 |
| Wireless mode | |
| Number of antennas | 2 |
| Antenna cable attenuation | 100 |
| GPS Location | Unknown |

| | |
|----------------------------------|---|
| Device Name | Use this to differentiate between devices. |
| Install Date | Use this to track the install dates of devices. |
| IP Address | IP address of the device. |
| Model | Mimosa device model name (e.g. B5, A5, etc.). |
| Serial Number | Mimosa device serial number. |
| Firmware | Firmware version. |
| Country | Location of device. |
| Temperature | Temperature of device in degrees Celsius. |
| Last Reboot | Time since last reboot. |
| 2.4 GHz MAC | MAC address for 2.4 GHz interface. |
| 5 GHz MAC | MAC address for 5 GHz interface. |
| Ethernet MAC | MAC address for Ethernet interface. |
| Wireless Mode | Current role of the device as AP (Access Point) or Station. If the device is in AP mode, it will act as the Access Point for the network. The Stations linked to the AP will act as children to the configuration setting of the parent AP. |
| Number of antennas | Number of antennas in the device |
| Antenna cable attenuation | Length of cable attached to the device |
| GPS Location | GPS coordinates of device location. |

Link

| Link | |
|------------------|----------------------|
| Link name | MimosaDemo |
| Max capacity | |
| Distance | |
| Frequency | 5500 (ch 100) (auto) |
| Bandwidth | |
| Packets received | 74509 |
| Packets sent | 648341 |
| Bytes received | 10044636 |
| Bytes sent | 99300319 |

| | |
|-------------------------|--|
| Link Name | Use this to differentiate between devices. |
| Max Capacity | Maximum connection rate (Mbps). |
| Distance | The distance between the two link endpoints. |
| Frequency | Frequency and (Channel) or auto (if auto channel mode is enabled). |
| Bandwidth | Width of channel (MHz). |
| Packets Received | Number of packets received. |
| Packets Sent | Number of packets sent. |
| Bytes Received | Number of bytes received. |
| Bytes Sent | Number of bytes sent. |

Remote Device

| Remote Device | |
|---------------------------|-------------------|
| IP address | 192.168.20.132 |
| Model | B5-A |
| Serial number | 00000000003133 |
| Version | 0.5-17-g0de147e |
| Country | United States |
| Temperature | 0 |
| Last reboot | 7d 17h 42m 47s |
| WLAN MAC | 00:26:86:01:EF:F1 |
| WAN MAC | 00:26:86:01:46:60 |
| Gigabit ethernet port | 00:26:86:01:46:60 |
| Wireless mode | |
| Number of antennas | 2 |
| Antenna link cable length | 100 |

| | |
|----------------------------------|--|
| IP Address | IP address of the remote end Mimosa remote device. |
| Model | Mimosa remote device model name (e.g. B5, A5, etc.). |
| Serial Number | Mimosa remote device serial number. |
| Version | Firmware version. |
| Country | Location of device. |
| Temperature | Temperature of device in degrees Celsius. |
| Last Reboot | Time since last reboot. |
| WLAN MAC | MAC address for WLAN interface. |
| WAN MAC | MAC address for WAN interface. |
| Gigabit Ethernet Port MAC | MAC address for Gigabit Ethernet Port interface. |
| Wireless Mode | Current role of the Mimosa remote device as AP or Station. |
| Number of Antennas | Number of antennas on the device |
| Antenna link cable length | Length of cable linked to the antenna |

Wireless

The **Wireless** tab contains all necessary components for configuring the wireless link.



Link

Cancel Link Save

Link name (SSID) MimosaDemo

Device mode Access point

Key (ASCII passphrase) *****

Hide SSID (disable broadcast) OFF

Restrict to MAC none

Link Name (SSID) Change/Set the name of the wireless network.

Device Mode Choose whether the device will act as an **Access Point** or a **Station**. The Access Point settings will determine the characteristics of the network while Station devices will be subject to changes made at the Access Point.

Key (ASCII Passphrase) Change/Set the password for the wireless network.

Hide SSID (disable broadcast) Turn **On** to disable the broadcast of the wireless network SSID beacon (the network will not be discoverable).

Restrict to MAC Allow or deny specific devices based on MAC address with the following **Filtering Type** options:

Cancel Mac filter Save

Filtering Type none

Authorize list Deny list

Add Add

None - do not filter

Authorize if not denied - allow any connection if not denied

Deny if not authorized - block unless authorized

To add a device to either list, simply click "Add" and then insert MAC address of device.

Channel

Channel configuration dialog box showing the following settings:

- Country: United States
- Bandwidth: 40MHz
- Base frequency (MHz): Auto
- Channel usage list: unrestricted

Country Select the country in which the device will be operating.

Bandwidth Select the size of the channels that will be used in the link. Mimosa products allow for selection up to 80 MHz for channel width.

Base Frequency (MHz) Either choose a channel on which to operate the link or choose **Auto**. If **Auto** is chosen, the device will automatically choose the channel with the least interference.

Channel Usage List Turn **Channel Usage List On** to limit the channels available for use during channel **Auto** selection mode. You will be prompted to choose preferred channels (selection list will be based on current **Bandwidth** selection and available 20/40/80 MHz base frequencies). Once enabled, the field will read **specified**.

If **Off**, all channels will be considered usable and the **Channel Usage List** item will read **unrestricted**.

WARNING: It is important to select the right country so that your device follows the regulations and laws of that country.

Power

The screenshot shows a configuration window titled 'Power'. It has a 'Cancel' button on the left and a 'Save' button on the right. The window is split into two main sections: 'Power' and 'Performance'.
 In the 'Power' section, there is a 'Power' dropdown menu currently set to '14' and a 'Max coding rate' dropdown menu set to 'Auto'.
 In the 'Performance' section, there are several settings:
 - 'Auto Distance': ON (checkbox)
 - 'RTS/CTS': ON (checkbox)
 - 'Aggregation enable': ON (checkbox)
 - 'Beacon Interval': 100 (spin box)
 - 'DTIM Period': 1 (spin box)
 - 'Short GI': ON (checkbox)
 - 'Antenna Gain': 14 (spin box)

Power The maximum allowed power rate is determined by a combination of country and chosen frequency. If a power level is not chosen, the B5c will default to the highest power level allowed in the chosen country/frequency combination.

Max Coding Rate Sets the maximum coding rate available for use by the link. Selecting **Auto** will allow the link to use the highest coding rate available.

Auto Distance Enables automatic measurement of the link distance, allowing corresponding link parameters to be optimized.

RTS/CTS Allows communication with legacy devices that may require RTS/CTS. Should only be used if legacy devices are present.

Aggregation Enable Enables 802.11 aggregation features for performance enhancement.

Beacon Interval Adjusts the frequency of broadcast beacons.

DTIM Period Delivery traffic information map period.

Short GI Determine the length of the guard interval between transmissions. A "Short GI" is 400 ns, while a long GI will be 800 ns.

Antenna Gain External Antenna Gain Setting. Recommended 25 dBi

Tools

The **Tools** tab has everything you need to measure signal levels for antenna aiming, spectrum analysis optimize, and link diagnosis.

The screenshot shows the Mimosa Tools interface. On the left is a dark sidebar with the Mimosa logo and a 'Tools' menu containing: Signal meter, Site survey, Spectrum analyzer, Device discovery, Ping, and Traceroute. The main area is titled 'Signal Meter' and features a large circular gauge with a needle pointing to -35.40 dBm. The gauge has a scale from -90 to -30 dBm. Text on the screen includes: 'Tx MCS:14', 'Rx MCS:14', 'Noise:-50.3dBm', 'Tx PHY rate:130', 'Rx PHY rate:130', and 'Master'. There are 'Slave' and 'Center' buttons. At the bottom, 'Stream 1' and 'Stream 2' are visible. A 'logout' button is in the top right corner. Six callout boxes with orange borders and lines pointing to specific elements provide the following descriptions:

- Fine grained signal meter used for aiming the Mimosa device
- Displays all links visible in the area and any pertinent information on those networks. This information can be used in site planning and installing new devices
- Survey the location of your radio and determine the best frequency for your link
- Analyze your network to discover any Mimosa devices that are active on the same link layer network
- Analyze the route of packets on the link to a destination
- Ping a device in your network and receive a readout from the device

Signal Meter

The Signal Meter provides a real time signal level in dBm for an established link. It provides fine adjustment information to optimize the aiming of the link to achieve the highest signal level possible. The AP device and Station device must be first configured with the same link info (SSID and security key).

frequency and distance values are displayed at the bottom of the page.



Current **Tx MCS (Modulation and Coding Scheme)** and **Rx MCS** rate (if associated) corresponding **Tx PHY (Physical Layer Interface) rate** and **Rx PHY rate** are shown.

The **Center** button locks the fine tuning scale in place, providing more detailed granularity with the orange arrow showing the fine grain level to assist in orienting and aiming the link.

Scrolling to the lower portion of the page, individual stream **EVM** (Error Vector Magnitude) and **RSSI** (Received Signal Strength Indication) levels are displayed. Current selected bandwidth,

Site Survey



SSID SSID name of devices detected in the scan survey.

Signal Strength Signal strength of the specific SSID link in dBm.

Noise Amount of noise detected in the frequency/channel.

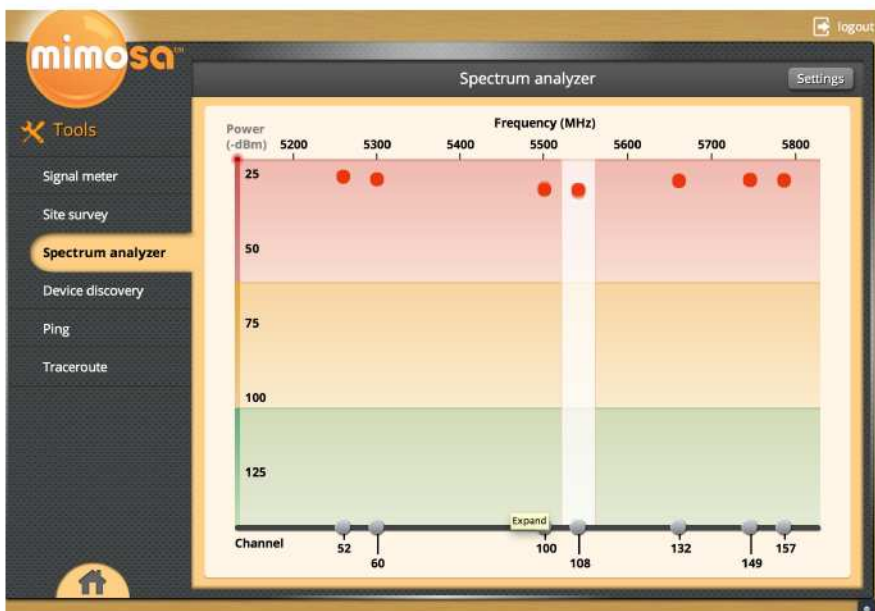
Frequency Current frequency utilized by a detected device.

The **Refresh** button in the upper right corner will update this information to an up to the second view.

The **Download** button in the upper right corner will extract this information into a CSV formatted file.

Spectrum Analyzer

The spectrum analyzer displays observed interference levels created by other wireless devices, and is displayed by Frequency/Channel.



Unlike many wireless spectrum analyzers, the Mimosa device continually captures interfering signal levels across the spectrum without impacting ongoing link traffic.

The analyzer displays detected interference, and allows you to select a channels or multiple channels (based on the current selected bandwidth, and allowed channels in the country selected) that you want selected to be included in the **Channel Usage List**.

The Y-axis of the graph indicates the level of power of each signal. The lower the signal, the less noise it is creating in the

immediate area, and the less likely it will be to affect the performance of the radio.

The X-axis of the spectrum analyzer graph displays the frequency/channel of the observed radio interference.

The colored bands represent relative impact to link performance, red indicating highly impacting interference, yellow indicating likely impact, and green representing negligible impact.

The graph updates automatically in real time to help you understand radio signal levels in your location.

The **Settings** button in the upper right hand corner allows you to change the way you view the graph.

Bandwidth Change the width of the channels that will be used on the link.

Channel Usage List Turn **On** to restrict the device to only use a specified list of desired operation channels. Once enabled, use the checkboxes on the analyzer page to include desired channels eligible for use in auto-switching and when DFS/Radar switching is required (depends on channel selected and country regulations).

You can also click the **Edit List** button and go to a new page to select channels.

Analyzer Signal Decay Use this drop-down to determine how quickly an observed signal will fade from the spectrum analyzer graph to determine persistence of interfering signals/

WARNING: The spectrum analyzer **Channel Usage List** is the same usage list as in the **Channel** section under **Wireless**. Changing the allowed channels in the **Spectrum Analyzer** will also change allowed channels in the **Wireless** tab.

Device Discovery



| name | product | mode | SSID |
|------|---------|------|------|
|------|---------|------|------|

The **Device Discovery** displays the **Name**, **Product**, **Mode** and **SSID** of any devices on the network that are active in the area.

The **Refresh** button in the upper right corner will update this information to the most current view.

The **Download** button in the upper right corner will extract this information into a Device Discovery CSV file.

Ping



| | |
|----------------|-----------|
| Destination IP | 127.0.0.1 |
| packet count | 600 |
| Packet size | 64 |

Destination IP IP address of the device to ping.

Packet Count Number of packets to transmit.

Packet Size Size of each packet transmit.

After configuring the ping values, press the **Start** button at the top to execute. Clicking the **Stop** button at any point will end the ping.

Traceroute



| | |
|--------------------|-------------------------------------|
| Destination host | 127.0.0.1 |
| Resolve IP address | <input checked="" type="checkbox"/> |
| Max number of hops | 10 |

The **Traceroute** function assumes that the current device you are logged into is one end of the route.

Destination host IP address of end Traceroute device

Resolve IP address Determines if the report will contain device names or only IP addresses. Turning this function **Off** will lead to slightly faster results.

Max number of hops Set the maximum number of device hops that a packet will encounter before ending the traceroute.

Once a traceroute is configured, select the **Start** button at the top to execute. If at any point during the traceroute you wish to stop, click the **Stop** button at the top right.

Administration

The **Administration** tab is used to configure device networking, remote access and other IP services, device diagnostics, and device reboot and resetting.

The screenshot shows the Mimoso Administration web interface. The left sidebar contains the following menu items: Administration, Password, Services, WiFi Console, Notifications, Time and Location, Network, Update and Reset, and Configure File. The main content area is titled 'Password' and contains two sections: 'Configure' and 'Monitor', each with a password input field and a right-pointing arrow. A 'logout' link is visible in the top right corner. Eight callout boxes provide detailed descriptions for various features:

- Modify device passwords for the Configure and Monitor modes of the GUI interface
- Configure remote management and additional IP services.
- Manage the use of the 2.4 GHz management system
- Configure the types of notifications you will receive regarding your device
- Update time and location settings based on the exact location of your device.
- Manage administrative portions of the network
- Backup device configuration or restore configuration from a previously saved backup.
- Update device firmware ,reset the device to factory configuration or reboot the device.

Password



To change either password, the current password will be required.

Services



Manage via ethernet/wireless links (in band) Enables the device to be accessed from connections in addition to the 2.4 GHz connection. If manage via ethernet is turned **Off** you will be unable to manage the device via Ethernet (LAN or WAN side).

Device Discovery Determines whether the device will be discoverable on the network by other Mimoso or LLDP devices.

Management VLAN (ID) Turning **On** and setting the VLAN ID identifies which VLAN will be used to remotely manage the device.

Web Server Port Indicate which TCP port will be used for the web server.

Secure Web Server (HTTPS) Indicate which TCP port will be used for the secure web server.

Dynamic DNS The device provides Dynamic DNS software which interoperates with several different DDNS services.
To use Dynamic DNS, you must already subscribe to a DDNS provider (refer to the drop-down in the interface for a list of compatible providers). Required parameters for activation include the **Host Name** of the DDNS service, and your **Username** and **Password**.

Session Timeout Number of minutes of inactivity that will be allowed on the interface before automatic log-out.

WiFi Console

Cancel Save

2.4GHz administration network info

Network mode Auto enable/disable

Local management SSID MimosaMGMT

Recovery SSID (fixed - not editable) mimosaR341

Security

Key (ASCII passphrase) *****

Maximum wireless clients 3

WARNING: If you turn off the 2.4 GHz management, you must have an in-band method of accessing your device. If you have turned off your 2.4 GHz management and are now unable to access your device, you may always access your device via your **Recovery SSID**.

To do this, unplug the device's ethernet cable connection. Then, unplug the PoE (Power over Ethernet) and plug the PoE back in to cycle power. The recovery SSID will now be broadcast and must be accessed within 2 minutes, after which the 2.4 GHz management will be disabled again.

Once you are connected to the 2.4 GHz management system, type **http://recovery.mimosa.com** into your browser to reach the interface. After you have managed the device through the Recovery mode, reconnect the device's ethernet cable.

Network Mode Enable or Disable the 2.4 GHz management network. You can also set the mode to auto enable/disable. This mode turns the 2.4 GHz management system on for a limited time (2 minutes) when the device is being booted and then turns off.

Local Management SSID The SSID name for the 2.4 GHz local management interface.

Recovery SSID This SSID is fixed as a fallback recovery of the device management system.

Key (ASCII passphrase) Enter a passphrase to generate a WPA2-PSK key for securing the 2.4GHz 802.11 management interface

Maximum wireless clients Assign the maximum number of wireless clients that can access the 2.4GHz 802.11 management interface (simultaneously associated).

Notifications

| Notification | SNMP | Email |
|-----------------------------|-----------------------|-----------------------|
| Critical fault | <input type="radio"/> | <input type="radio"/> |
| Boot / Reboot | <input type="radio"/> | <input type="radio"/> |
| Wireless up / Wireless down | <input type="radio"/> | <input type="radio"/> |
| Low / High temperature | <input type="radio"/> | <input type="radio"/> |

SNMP Enables SNMP notifications (traps) to a remote server. Required/optional parameters include **SNMP community string**, **Contact**, **Location** and **Trap Server**.

Remote Log (syslogd) Enables configuration of syslogd remote logging for the device. Required parameters include **Remote log IP address** and **Remote log port**.

Email notifications Enables SMTP mail server based email notifications for desired device events. An external SMTP mail service is required for this function to operate.

The notification section also contains a chart that determines which notification types will be turned on or off, and to which notification system they will be sent. Update these notifications by clicking the circles in the grid to check on or off.

| Notification | Description |
|----------------------------------|--|
| Critical Fault | Notification created if the device is forced to reboot or if GPS signal is lost. |
| Boot/Reboot | Notification created if system boots or reboots. |
| Wireless Up/Wireless Down | Notification created if device connects to (Wireless Up) or disconnects from (Wireless Down) another device. |
| Low/High Temperature | Notification created if device temperature drops below -40C or rises above +60C. |

Time and Location

Cancel Time and Location Save

GPS OFF

Time zone US/Pacific

Location

Source OFF

Latitude Empty, Click to input

Longitude Empty, Click to input

NTP client

Mode Off

NTP server ntp.mimosalab.com

GPS

Enables the integrated GPS (if provided) to allow the device to update location details automatically. This setting only impacts automatic location population for Longitude/Latitude, it does not impact any synchronized transmission features for collocating Mimosa devices which utilize GPS based timing.

Time Zone

Manually update the time zone of the device.

Source

Indicates where the location information is being derived from.

Latitude

Manually update the latitude of the device.

Longitude

Manually update the longitude of the device.

Mode

Determines the method the device uses for . Change Mode to **Of**, **GPS** (get time from GPS), **GPS Fallback** (get time from NTP server).

If NTP does not have time, fallback to GPS) or **GPS override**.

NTP Server

Identify the NTP server for the device.

Network

Spanning Tree Protocol (STP) OFF

Ethernet port

IP address mode

Current IP

| | |
|----------------|----------------|
| IP: | 192.168.20.144 |
| netmask: | 255.255.255.0 |
| gateway: | 192.168.20.1 |
| primary dns: | 192.168.20.5 |
| secondary dns: | unknown |

Static IP (or failover IP)

| | |
|----------------|-----------------------|
| IP: | 192.168.1.100 |
| netmask: | 255.255.255.0 |
| gateway: | Empty, Click to input |
| primary dns: | Empty, Click to input |
| secondary dns: | Empty, Click to input |

Spanning Tree Protocol (STP)

Enables IEEE 802.1D Spanning Tree Protocol on the device for identifying shortest network path and eliminating network loops (in redundantly designed networks).

Activating STP enables the device to communicate with other STP devices on the network by sending and receiving Bridge Data Protocol Unit (BDPU) packets.

Ethernet Port

Specify the type of Ethernet port to which the device is connected (**10BASE-T**, **100BASE-T**, **1000BASE-T**), or use **Auto** automatically detect the Ethernet link mode.

IP address mode

If **Static** is chosen, the device will always use the IP address that you have assigned.

If **DHCP (Static IP failover)** is chosen, the DHCP address assigned by your DHCP server will be used. In case of loss of communication with the DHCP server, the static IP (or failover IP) that you manually assigned will be used.

Current IP

Displays IP information in use currently (depending on **IP address mode** and status of the DHCP server).

Static IP (or failover IP)

Use this section to assign a failover or static IP information. The IP settings must be consistent with the address space of the device's intended network segment.

Update and Reset

Update and Reset Update

Update

Select an image file Choose File No file chosen

Reset

Reset to factory configuration Reset now

Reboot

Reboot device Reboot now

To update the firmware, go to the Mimosa website and download the latest interface firmware file. Then choose that file to upload under **Choose File**. Then click **Update** in the upper right hand corner.

To reset to factory configuration or to reboot your device, simply click the **Reset now**.

To reboot the device, simply click **Reboot now**.

Configure File

Configure file restore

Restore (will automatic reboot when uploaded file)

Select a configure backup file Choose File No file chosen

Backup

Save the current configure file Download

To restore a previous configuration, click **Choose File** in the restore section and select a previously saved file. Then, click **Restore** in the upper right corner to restore a previous configuration.

To save a configuration for later restoration, click **Download**. This will download the current configuration into a file.

Diagnostics

The diagnostics section of the interface contains all continuously updated status and monitoring information regarding your device. All diagnostic files can be downloaded to your computer using the upper right hand **Download** button.

The screenshot shows the Mimoso web interface with the 'Watchdog' configuration page open. The interface includes a sidebar with 'Diagnostics', 'Watchdog', 'Events', 'Syslog', and 'Support' options. The main content area shows the Watchdog settings, including a toggle for 'Watchdog IP ping' (set to ON) and input fields for 'Ping IP address', 'Interval (second)', 'Delay after startup (second)', and 'Failure count triggering reboot'. Callouts on the left provide descriptions for each sidebar item.

- Watchdog**: Watchdog monitors your network for failures
- Events**: Displays significant events experienced by the device
- Syslog**: Comprehensive log of all events experienced the device
- Support**: Device specific support data which may be requested by Mimoso Support for issue diagnosis and analysis

Watchdog

Cancel Watchdog Save

Watchdog IP ping

Ping IP address *Empty, Click to input*

Interval (second) *Empty, Click to input*

Delay after startup (second) *Empty, Click to input*

Failure count triggering reboot *Empty, Click to input*

Watchdog Ping can be turned **On** or **Off**. If **Watchdog IP Ping** is turned to **On** and it perceives failure in the network, your device will reboot.

| | |
|--|---|
| Ping IP address | Input IP address to ping. |
| Interval (second) | Specify how often Watchdog should ping the IP address. |
| Delay after startup (second) | Specify the length of time prior to the first ping. |
| Failure count triggering reboot | Specify how many failed pings are required to trigger a reboot. |

Events

clear log Events Download Refresh

Thu Jan 1 00:00:12 UTC 1970 Board started
Thu Jan 1 00:00:13 UTC 1970 System was upgraded
Thu Jan 1 00:00:17 UTC 1970 station 00:26:86:01:f3:34 associated
Thu Jan 1 00:00:28 UTC 1970 User Configure logged in
Thu Jan 1 02:42:38 UTC 1970 station 00:26:86:01:f3:34 disassociated
Thu Jan 1 02:43:36 UTC 1970 station 00:26:86:01:f3:34 associated
Thu Jan 1 02:46:32 UTC 1970 Upgraded firmware
Thu Jan 1 02:46:52 UTC 1970 Reboot by user
Thu Jan 1 00:00:12 UTC 1970 Board started
Thu Jan 1 00:00:13 UTC 1970 System was upgraded
Thu Jan 1 00:00:13 UTC 1970 station 00:26:86:01:f3:34 associated
Thu Jan 1 00:00:25 UTC 1970 User Configure logged in
Thu Jan 1 11:37:04 UTC 1970 User Configure logged in
Thu Jan 1 11:42:04 UTC 1970 station 00:26:86:01:f3:34 associated
Thu Jan 1 11:42:29 UTC 1970 station 00:26:86:01:f3:34 associated

This is a log of all significant events that occur, not just the events that are set to **On** notification. This log will be saved regardless of reboots.

Syslog

This section contains a list of all status, minor and significant events experienced by the device. This information is cleared with each device reboot.

clear log Syslog Download Refresh

Jan 4 21:22:19 710-demo-1 user.info kernel: [364939.540000] MuC: ratectl: mcs=gpt;per 15=79:1536 14=78:496 13=76:704 0=12:0
Jan 4 21:22:19 710-demo-1 user.info kernel: [364939.540000] MuC: ratectl: rates: best 15 sec 14 err 13 base 12

Support

This information can be downloaded and sent to Mimosa for support.

```
Support Download
0.5-13-g10a6f9a
[19710.735000] MuC: ratectl: rates: best 52 sec 50 err 20 base 47
[20210.085000] MuC: ratectl: mcs=gpt:per 52=81:2097 50=45:29127 22=81:3171 21=57:20971 20=51:22795
0=12:0
[20210.085000] MuC: ratectl: rates: best 22 sec 21 err 50 base 20
[20463.560000] MuC: ratectl: mcs=gpt:per 52=80:2621 50=50:24966 23=84:2114 22=83:2048 21=60:18078
0=12:0
[20463.565000] MuC: ratectl: rates: best 23 sec 22 err 21 base 50
[20491.690000] MuC: ratectl: mcs=gpt:per 52=80:2621 50=49:26214 23=82:3120 22=83:2240 21=61:17476
20=39:32768 0=12:0
[20491.690000] MuC: ratectl: rates: best 22 sec 21 err 50 base 20
[20934.445000] MuC: ratectl: mcs=gpt:per 52=80:2621 50=60:17476 22=80:4297 21=54:22795 20=41:30840
0=12:0
[20934.445000] MuC: ratectl: rates: best 52 sec 50 err 20 base 47
[21647.055000] MuC: ratectl: mcs=gpt:per 52=79:3171 22=82:2642 21=65:14169 0=12:0
[21647.055000] MuC: ratectl: rates: best 22 sec 21 err 50 base 20
[21656.750000] MuC: ratectl: mcs=gpt:per 52=79:3171 23=84:1536 22=83:1598 21=70:10280 0=12:0
[21656.750000] MuC: ratectl: rates: best 23 sec 22 err 21 base 50
[21667.115000] MuC: ratectl: mcs=gpt:per 52=79:3171 50=40:32768 23=81:4161 22=81:3150 21=66:13797
```

About Mimosa Networks

Mimosa Networks, Inc. Corporate Headquarters

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[Campbell CA 95008](#)

Support Information

Lor sum amet, commy nulputat. Duipit lum ipisl eros dolortionsed tin hent aliquis illam volor in ea feum in ut adipsustrud elent ulluptat. Duisl ullan ex et am vulputem augiam doloreet amet enibh eui te dipit acillutat acilis amet, suscil.

E-mail: support@mimosa.co

Phone: +1 (408) 628-1277 in the United States or Canada

Resources

Website: <http://www.mimosa.co>



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FCC/IC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Purple Communications, Inc, may void the user's authority to operate the equipment.

English

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

French

Cet appareil est conforme à Industrie Canada une licence standard RSS exonérés (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas provoquer d'interférences
2. Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant provoquer un fonctionnement indésirable de l'appareil.

RF EXPOSURE

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during the normal operation is minimized. In order to avoid the possibility of exceeding the FCC radio frequency exposure limit, human proximity to the antenna should be more than 1m.

La puissance de sortie rayonnée de cet appareil est inférieure aux limites d'exposition de radio de fréquence FCC. Néanmoins, le dispositif doit être utilisé de telle manière que le potentiel pour le contact humain pendant l'utilisation normale soit minimisé. Afin d'éviter la possibilité de dépasser la limite d'exposition de fréquence radio de la FCC, la proximité humaine à l'antenne devrait être plus que 1m.