

5400-RM



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Package Contents

5400-RM Unit



Cellular Antennas



Power Supply Unit

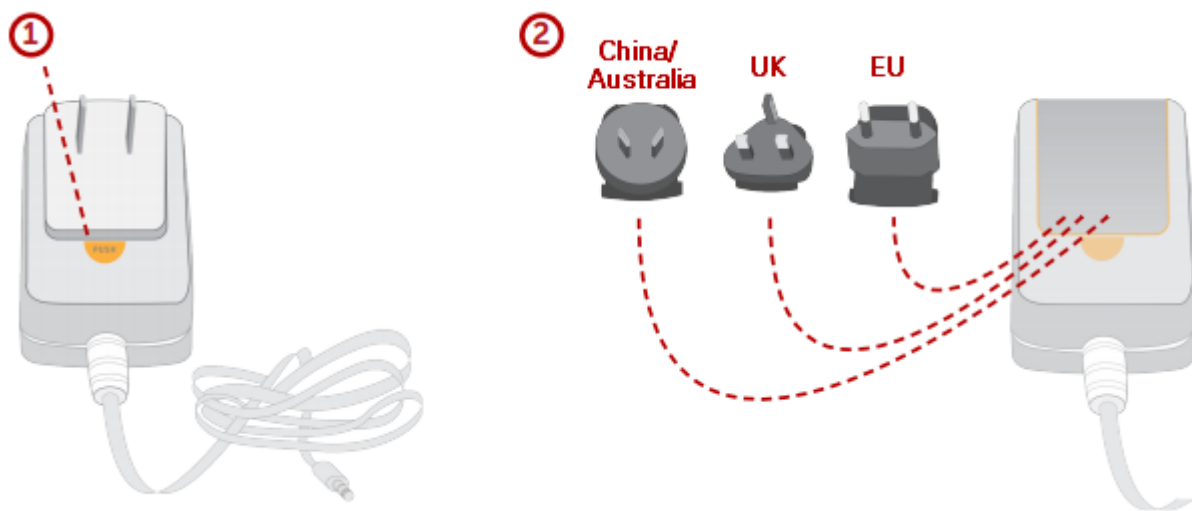


Exchanging Power Tips

Your 5400-RM router may include four interchangeable plug tips that allows the Power Supply Unit (PSU) to operate in most countries. The PSU comes with the United States style plug installed.

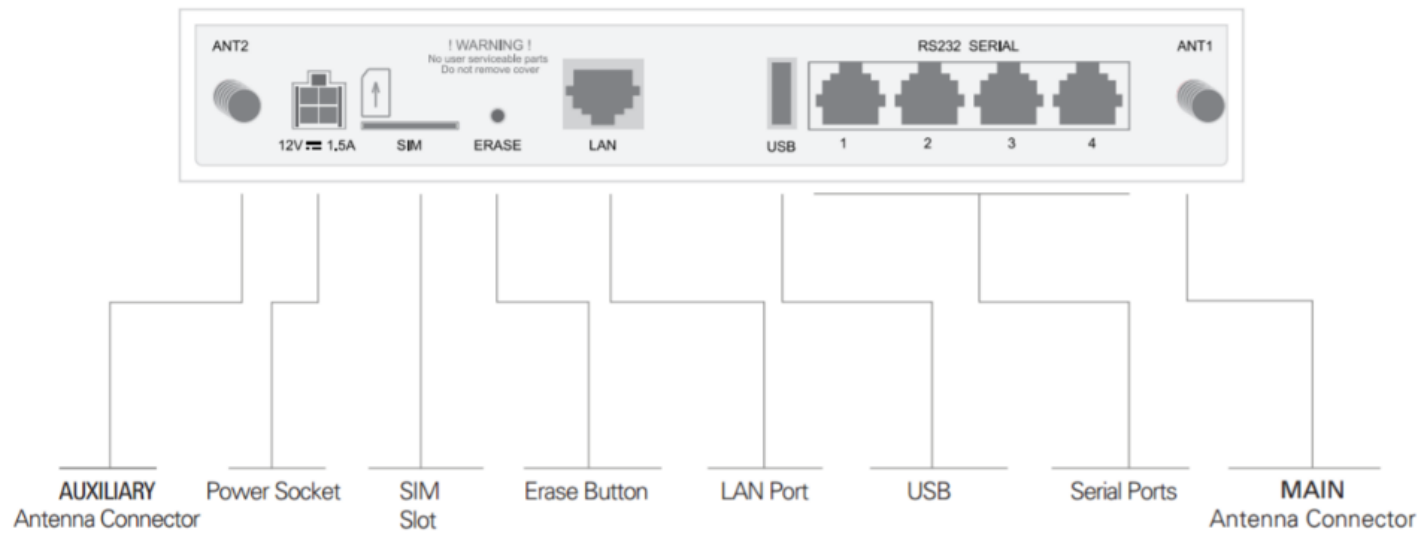
To change the plug tip:

- While holding down the "PUSH" button, slide the current plug tip forward.
- Pull off the attached plug tip.
- Slide the new tip down into place until it clicks.



NOTE: For more information regarding power-tip compatibility with global deployments, please [click here](#).

Ports and Connectors



Device Status



Name	Function
Power	Indicates unit is powered up. Hardwired to power input.
Online (Cellular)	<i>Flashing</i> – unit is attempting to establish a cellular network connection OR the backup connection is in use. <i>Solid</i> – a cellular network connection has been established.
LTE	Indicates a 4G/ LTE connection.
3G/ 2G	Indicates a 2G or 3G cellular connection.
Backup	<i>Flashing</i> – unit is attempting to establish a network connection on the LAN. <i>Solid</i> – A network connection has been established on the LAN.
Signal Strength	Standard 5-bar signal strength indication; a minimum of two bars is suggested for reliable use.

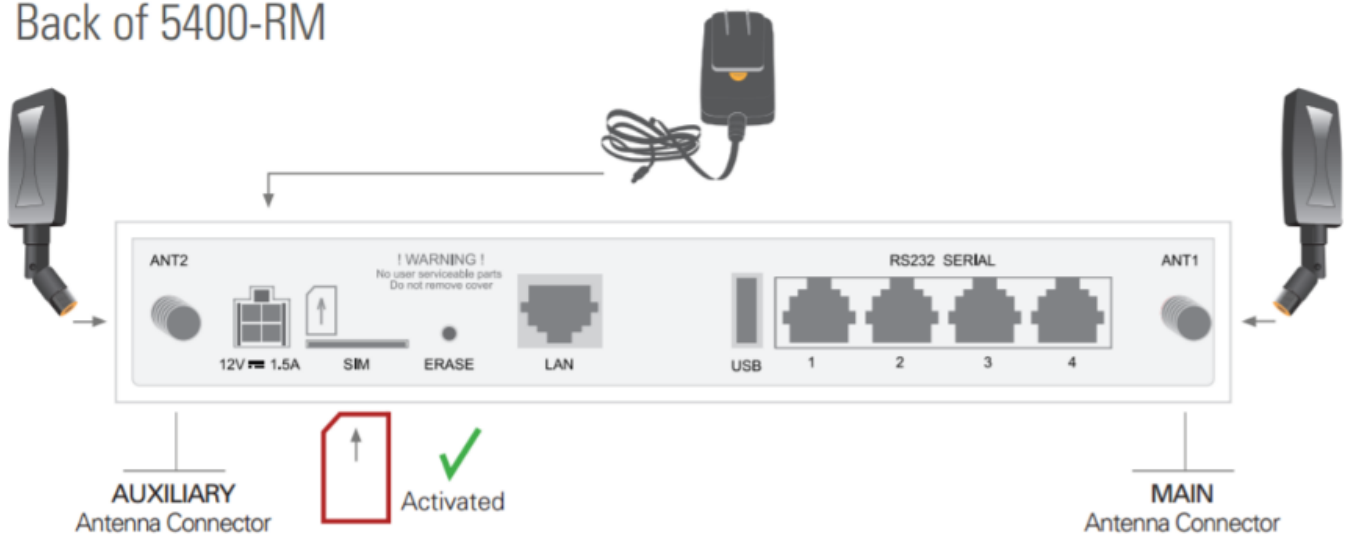
Signal Strength

Signal Bars	dBm	Signal Strength Percent	Quality
	-110 to -106	0-11%	Bad
	-105 to -96	12-28%	Marginal
	-95 to -84	29-47%	OK
	-83 to -76	48-60%	Good
	-75 to -50	61-100%	Excellent

Initial Setup

1. Insert your activated SIM card provided by your cellular network operator. **The metal contacts should be facing down.** You will hear a click once the SIM is completely inserted.
2. For maximum performance, attach both of the included antennas. While gripping the metal connector section with your thumb and forefinger, tighten until secure. Do not tighten the antenna by holding any part of the plastic antenna housing.
3. Connect the power supply unit to the device.
4. Verify the signal strength indicator on the front of the 5400-RM shows 2 or more bars for proper operation.

Back of 5400-RM



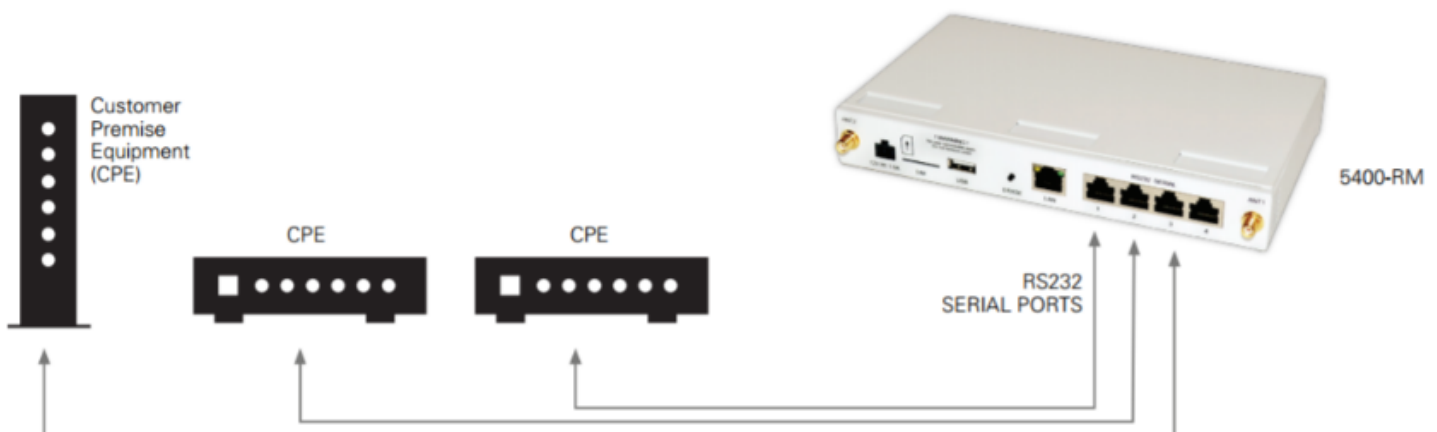
Physical Installation

Connecting the Serial Ports

The four serial ports on the Accelerated 5400-RM provide console access to connected critical equipment through the cellular network, and optionally through a connected Ethernet LAN. Connect up to 4 of your network devices to the Accelerated 5400-RM serial ports using the Pinout information below.

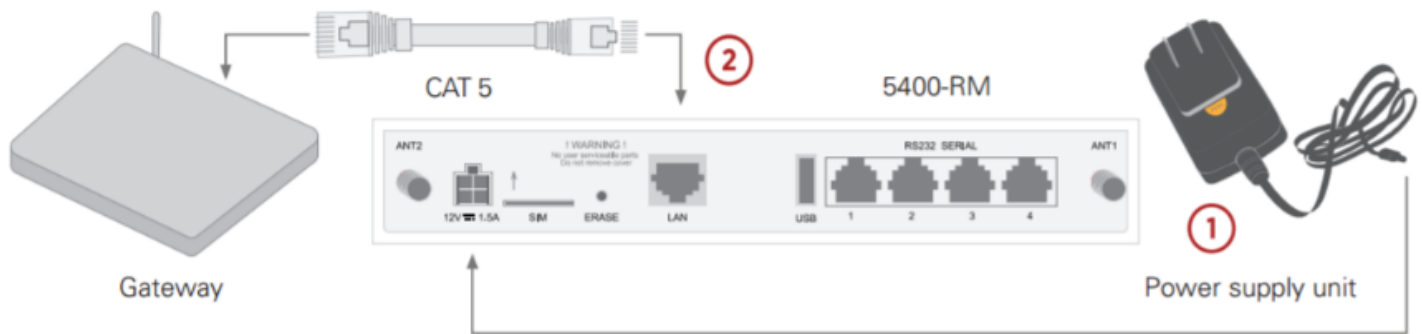
You must use a cable with an RJ45 connector to connect to the 5400-RM with a RJ45, DB9F or DB9M connector, as determined by your device type, to terminate to your device. Consult the user guide for the device you are connecting to the 5400-RM to determine the connector type, cable type, and pinout positions for your specific device.

The serial ports are enabled by default. The network devices connected to the serial ports may be accessed using Accelerated View terminal window, the local device GUI, TCP, telnet, or SSH connections. TCP, telnet and SSH connections to serial ports are disabled by default and must be enabled by a device specific configuration. Connect up to 4 of your network devices to the Accelerated 5400-RM serial ports using the 5400-RM pinout information below.



Connecting to the Site Networks

To use your wired network as an alternative network to access the devices connected to the 5400-RM serial ports, connect the LAN port on the Accelerated 5400-RM to your site Gateway. By default a DHCP request will be sent to the local Ethernet network.



1. Plug the power supply unit into an AC power outlet and connect to the 12V DC lead (4 pin connector) cable.
2. Using a customer provided CAT5 cable connect to your site gateway and the LAN port of the 5400-RM.

Serial Port Pinout and Use

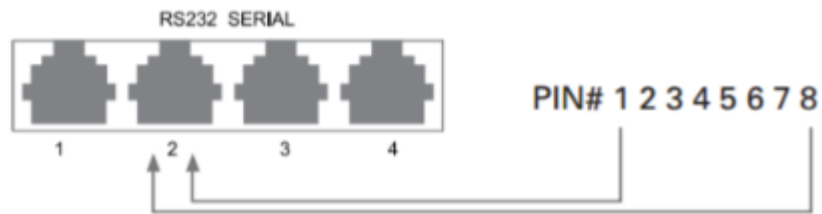
The RS232 standard requires support for baud rates up to 9600 baud on shielded multicore cable up to 50 feet (15 meters) long. For the 5400-RM, the use of standard CAT 5 cables enables serial communication at all baud rates up to 50 feet. CAT5 unshielded twisted pair cable lengths much longer than 50 feet have been verified at 9600 baud but are non-standard and are not guaranteed.

The 5400-RM RS232 serial ports are DTE and have the following pin configuration.

Pin 1	RTS	Request to send	Output from 5400-RM
Pin 2	DCD	Data carrier detect	Input to 5400-RM
Pin 3	RXD	Receive data	Input to 5400-RM
Pin 4/5		Ground	Signal ground
Pin 6	TXD	Transmit data	Output from 5400-RM
Pin 7	DTR	Data terminal ready	Output from 5400-RM
Pin 8	CTS	Clear to send	Input to 5400-RM

NOTE: ring indicate (RI) and data set ready (DSR) are not implemented

The serial ports use a female RJ45 jack to enable connection using UTP Ethernet cabling.



Configuring Device

Network Managed Configuration

Your Accelerated 5400-RM has the capability to automatically sync and receive all settings from a centralized cloud management tool, Accelerated View™.

The Accelerated View management portal provides the following capabilities for your Accelerated 5400-RM.

- Monitoring details including signal strength, network connectivity details (RSRP, CNTI, RSRQ, Ec/Io, etc.), SIM card details (IMEI, IMSI, ESN, etc.), data transmitted/received, and more.
- Email notifications based on connectivity, device firmware, and signal strength.
- Remote control.
- Out of band SMS recovery.

Devices using Accelerated View typically require no additional configuration or set-up.

Local Configuration

If your Accelerated 5400-RM is not provisioned in Accelerated View, it will use a default local configuration profile which will enable basic cellular connectivity (primary or backup) to your router. Your device will operate as a transparent bridge and all traffic on all ports is passed directly to and from the client device connected to the device's Ethernet port.

To change any default settings for an Accelerated 5400-RM not provisioned in Accelerated View refer to **Managing Device Locally** section.

Terminal on Unit

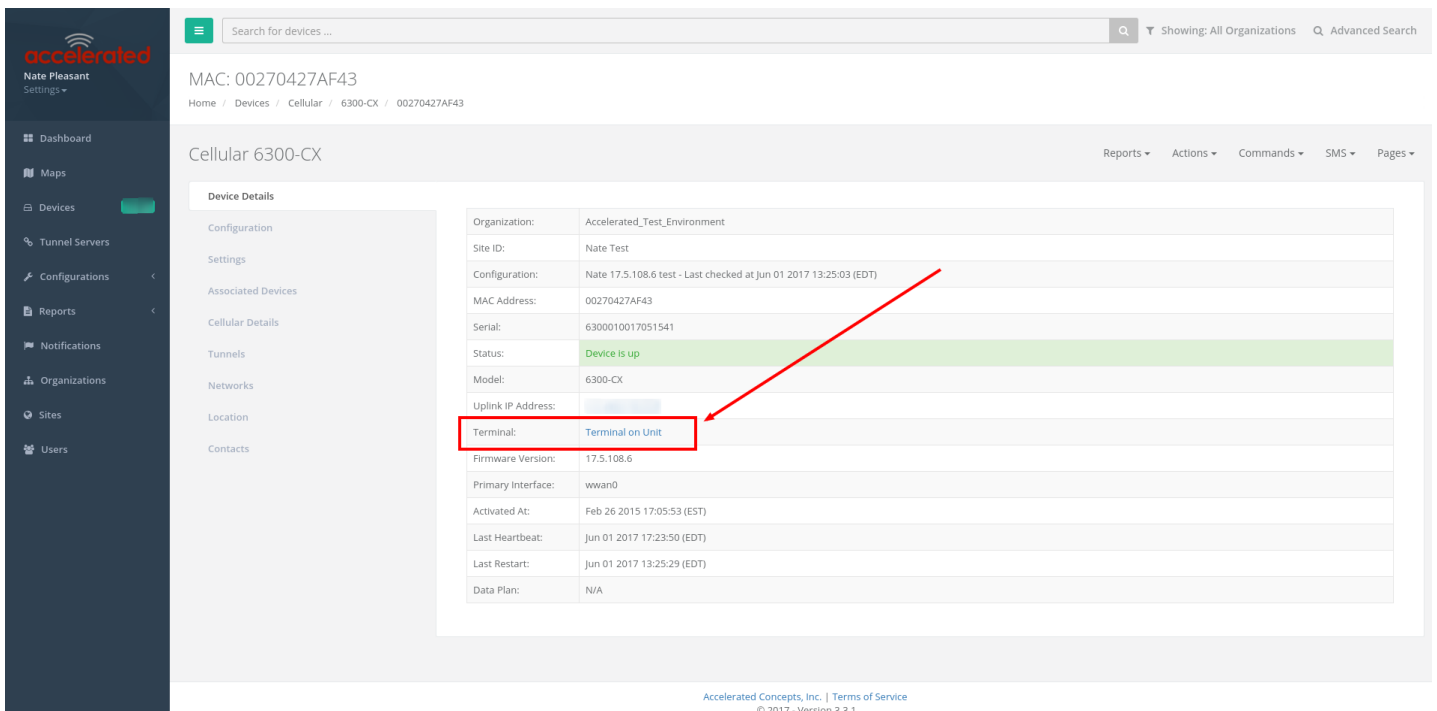
Skill level: *Intermediate*

Goal

To access the console of an Accelerated LTE router using the *Terminal on Unit* link presented in Accelerated View for the device.

 The *Terminal on Unit* access leverages the management tunnel established between the 63xx-series router and Accelerated View. For details on the monthly data usage for this access, refer to the following article:

[Data Usage Estimates](#)



The screenshot displays the Accelerated View interface. On the left is a dark sidebar with navigation links: Dashboard, Maps, Devices (highlighted), Tunnel Servers, Configurations, Reports, Notifications, Organizations, Sites, and Users. The main content area shows the 'Cellular 6300-CX' page for a specific device (MAC: 00270427AF43). A table of 'Device Details' is shown, with the 'Terminal' row highlighted in green and a red box around the 'Terminal on Unit' link. A red arrow points to this link. The table includes fields like Organization, Site ID, Configuration, MAC Address, Serial, Status (Device is up), Model, Uplink IP Address, Firmware Version, Primary Interface, Activated At, Last Heartbeat, Last Restart, and Data Plan.

Device Details	
Organization:	Accelerated_Test_Environment
Site ID:	Nate Test
Configuration:	Nate 17.5.108.6 test - Last checked at Jun 01 2017 13:25:03 (EDT)
MAC Address:	00270427AF43
Serial:	6300010017051541
Status:	Device is up
Model:	6300-CX
Uplink IP Address:	
Terminal:	Terminal on Unit
Firmware Version:	17.5.108.6
Primary Interface:	wwan0
Activated At:	Feb 26 2015 17:05:53 (EST)
Last Heartbeat:	Jun 01 2017 17:23:50 (EDT)
Last Restart:	Jun 01 2017 13:25:29 (EDT)
Data Plan:	N/A

Setup

For this setup, you will need access to Accelerated View, and a 63xx-series router online and syncing with Accelerated View. If you see the 63xx-series router listed as up (green status) in Accelerated View, you are good to go.

Details

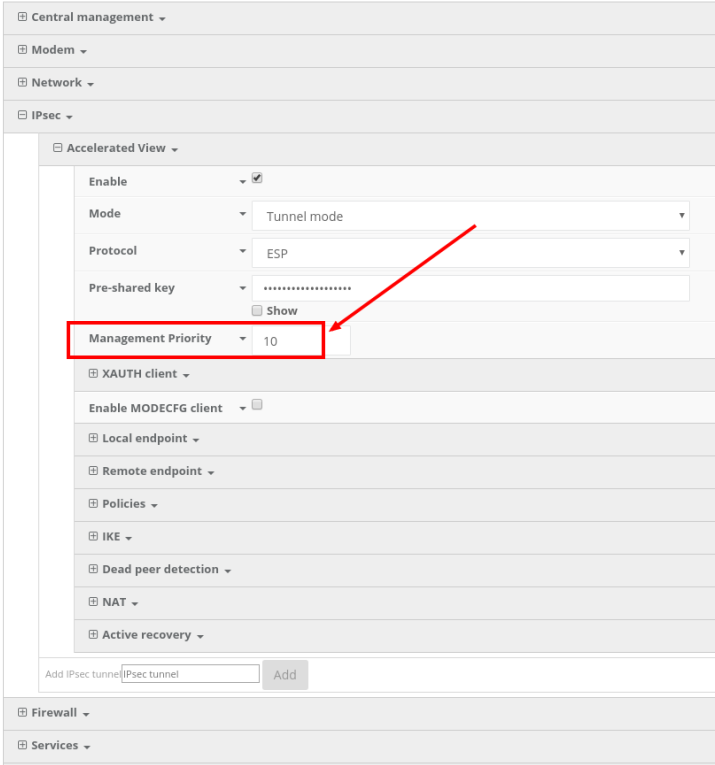
Accelerated View utilizes the IPsec tunnel the 63xx-series router establishes to remote.accns.com to provide terminal access to the console of the router.

! For details on the monthly data usage for this access, refer to the following article:

[Data Usage Estimates](#)

The following configuration settings will setup the 6300-CX to report its IPsec tunnel local IP address as the management IP that Accelerated View can then use to access its console.

Open the configuration profile for the 63xx-series router. Under *IPsec -> Accelerated View*, set the **Management priority** to **10**. This will tell the 63xx-series router to treat the AView IPsec tunnel as the highest priority management interface, which it then reports to Accelerated View as the IP that can be used to access its console.



The screenshot shows the configuration interface for the IPsec section. The 'Accelerated View' sub-section is expanded, showing various settings. The 'Management Priority' is set to 10, which is highlighted with a red box and a red arrow. Other settings include 'Enable' (checked), 'Mode' (Tunnel mode), 'Protocol' (ESP), 'Pre-shared key' (masked), and 'Show' (unchecked). Below these are sections for 'XAUTH client', 'Enable MODECFG client', 'Local endpoint', 'Remote endpoint', 'Policies', 'IKE', 'Dead peer detection', 'NAT', and 'Active recovery'. At the bottom, there is an 'Add IPsec tunnel' button.

Once you apply the new configuration to the 63xx-series router, reboot the 63xx-series device so it rebuilds the IPsec tunnel and reports the new IPsec local IP address to Accelerated View. You can verify that Accelerated View is using the IPsec local IP as the management IP by looking at the **Uplink IP address** on the **Device Details** tab. This value should be set to a 172.x.x.x IP address.

The screenshot shows the Accelerated View web interface. On the left is a dark sidebar with navigation links: Dashboard, Maps, Devices (highlighted), Tunnel Servers, Configurations, Reports, Notifications, Organizations, Sites, and Users. The main content area has a search bar at the top with the text 'Search for devices ...'. Below the search bar, the breadcrumb path is 'Home / Devices / Cellular / 6300-CX / 00270427AF43'. The page title is 'Cellular 6300-CX'. On the right side of the page, there are tabs for Reports, Actions, Commands, SMS, and Pages. The 'Device Details' section is active, showing a table of device information. The 'Uplink IP Address' is highlighted with a red box, and a red arrow points to it from the right. The status 'Device is up' is highlighted in green.

Organization:	Accelerated_Test_Environment
Site ID:	Nate Test
Configuration:	Nate 17.5.108.6 test - Last checked at Jun 01 2017 17:56:28 (EDT)
MAC Address:	00270427AF43
Serial:	6300010017051541
Status:	Device is up
Model:	6300-CX
Uplink IP Address:	172.27.175.67
Terminal:	Terminal on Unit
Firmware Version:	17.5.108.6
Primary Interface:	wwan0
Activated At:	Feb 26 2015 17:05:53 (EST)
Last Heartbeat:	Jun 01 2017 18:00:51 (EDT)
Last Restart:	Jun 01 2017 17:56:12 (EDT)
Data Plan:	N/A

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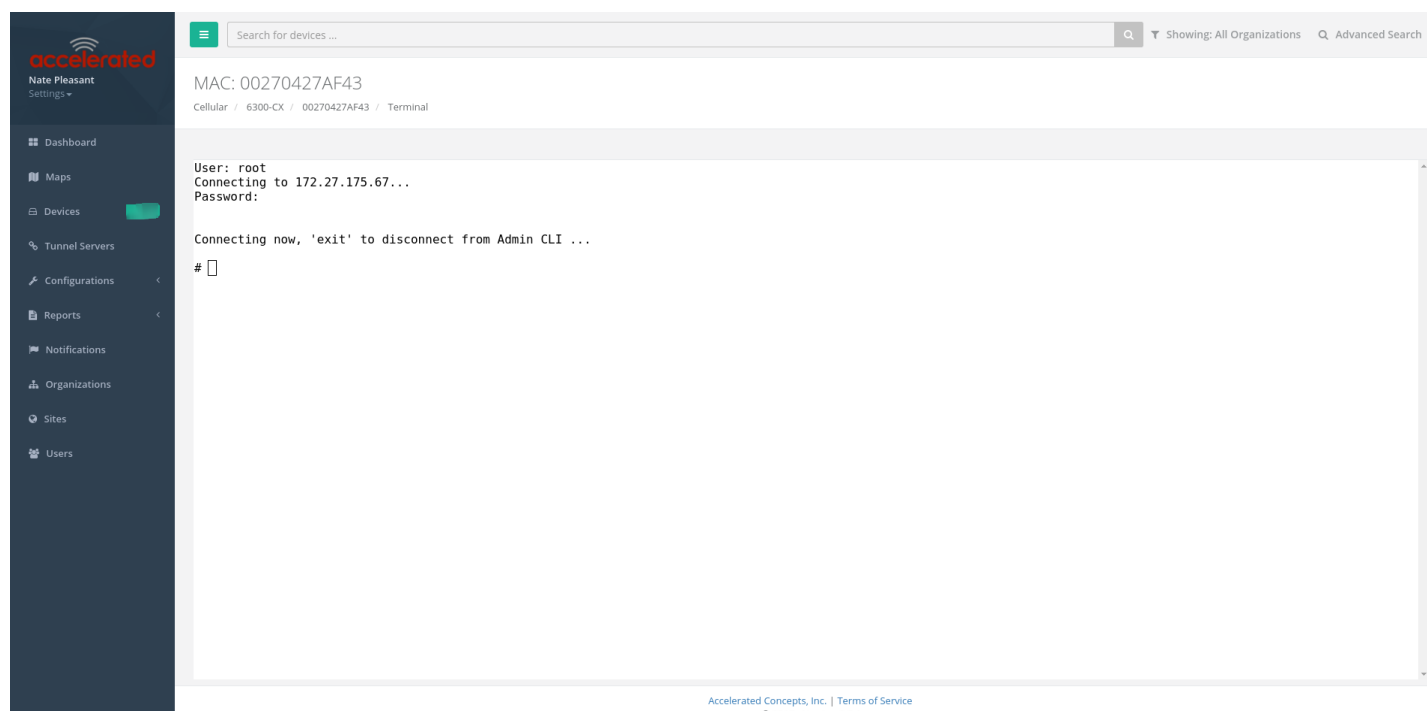
Using the Terminal on Unit link

Once the correct management IP is reported from the 63xx-series router to Accelerated View, clicking the *Terminal on Unit* will open a page on Accelerated View to provide the user access to the console of the 63xx-series router. Default login credentials are below.

User: root

Password: default

To create a different user or change the root user's password, refer to [this article](#).



The screenshot displays the Accelerated mobile application interface. On the left is a dark blue sidebar with the 'accelerated' logo and a user profile for 'Nate Pleasant'. The sidebar contains a list of navigation items: Dashboard, Maps, Devices (highlighted with a green bar), Tunnel Servers, Configurations, Reports, Notifications, Organizations, Sites, and Users. The main content area at the top has a search bar labeled 'Search for devices ...' and a dropdown menu showing 'Showing: All Organizations' with an 'Advanced Search' link. Below this, the selected device is identified as 'MAC: 00270427AF43' with a breadcrumb trail 'Cellular / 6300-CX / 00270427AF43 / Terminal'. The central part of the screen is a terminal window with a white background and black text. The terminal output shows a login sequence: 'User: root', 'Connecting to 172.27.175.67...', 'Password:', and 'Connecting now, 'exit' to disconnect from Admin CLI ...'. A prompt character '#' is visible on the next line. At the bottom of the terminal window, there is a small footer: 'Accelerated Concepts, Inc. | Terms of Service' and '© 2017 - Version 3.3.1'.

ⓘ There is a known issue where the predictive/auto-correct feature of the [Google keyboard](#) renders it incompatible with the Terminal page. If you are access the above Terminal with an Android phone or tablet, you will need to use a different keyboard other than the native Google keyboard.

Troubleshooting

Resetting Your Device

 While the settings are reset, the device's firmware version remains the same.

To reset the device to factory default settings, press and hold the **ERASE** switch for 5 seconds while the device is powered on. The **ERASE** button is located on the rear of the device. While holding down the **ERASE** button, the device will emit a beeping noise once per second. After 5 seconds, a constant beep will sound; release the **ERASE** button. This will erase all device-specific settings to their original state (excluding any automatically generated keys/certificates), and it will automatically reboot.

Establishing Backup Connectivity via Ethernet Port

If the device cannot connect using a cellular connection, use the following steps to use the Ethernet LAN connection.

1. Restore the device to its factory default settings.
2. Connect the Ethernet port of the device to the site network equipment/router. Check for solid LINK and flashing ACTIVITY LEDs on the device LAN Ethernet port.
3. The device will accept an IP address from the site network via its DHCP client.
4. Observe the Status Indication LEDs & Signal Strength sections to aid in diagnosis.

 **Note:** Backup Connectivity via Ethernet Port and LAN connectivity via Ethernet Port features cannot be used at the same time. If you use the steps listed here to set the device's Ethernet port as a backup connection for itself, the 5400-RM will not be able to provide LAN connectivity to client device(s).

Out of Band SMS Commands

A set of emergency remote commands can be sent via SMS to the device to provide out-of-band (OOB) recovery for the device. These SMS commands allow you to perform actions such as factory resets, reboot the device, and restore to the backup firmware partition, all without requiring the device to have an active cellular connection. Similar to the standard remote commands, these can be used to provide control over the device without any onsite interaction. To utilize this feature, SMS must be enabled for the SIM card used by the device. The complete list of SMS commands is defined in the Accelerated View™ User's Guide. (<https://aview-docs.accns.com>)

Support Report

Often times, it is beneficial to download a support report from the device to provide to technical support. This report is a zipfile that contains all of the current details for the device's state, and a full record of the system logs from the device.

To obtain a support report from the device, login to the device's local web UI. To access the local web UI, the user must have a PC/laptop connected to the LAN Ethernet port of the 5400-RM. They should receive an IP address via DHCP from the 6350-SR in the 192.168.0.100-250 range. If they do not receive a DHCP address, they can configure a static IP on the PC/laptop of 192.168.210.2/24 with a gateway of 192.168.210.1. Once the PC/laptop has an IP address, open the following URL in a browser on the PC:

<https://192.168.210.1>

Next, go to the *System* page, then click the *Download Report* button at the bottom of the page.

The screenshot displays the web UI of the 5400-RM device. On the left is a dark sidebar with navigation links: Configuration, Events, System Logs, Terminal, System (selected), and Log out. The main content area is divided into several sections:

- Current Version:** 17.7.58
- Firmware Image:** A 'Choose File' button and 'No file chosen' text.
- Options:** An empty text input field.
- Update Firmware:** A green button.
- Configuration Management:**
 - Passphrase (save/restore):** A text input field.
 - Configuration (restore):** A 'Choose File' button and 'No file chosen' text.
 - Buttons:** Save Config, Restore Config, and Erase Config.
- Modem Firmware:**
 - Manufacturer:** Telit
 - Model:** MBIM_1BC7_0032
 - Revision:** 20.00.502.7-ATT
- Support Report:**
 - Download Report:** A green button, highlighted with a red rectangle and a red arrow pointing to it from the right.
 - Description:** Download a device report file and include with support requests.

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Advanced Configuration Using Accelerated View

The following Accelerated View actions are typically only performed by your network administrator.

Using Accelerated View to centrally manage your device is recommended. If you are not using Accelerated View, you must manage and configure your device using the local interface. Refer to **Managing Device Locally** section for more information.

Viewing and Editing Configuration

To access the configuration for your device:

1. Login to Accelerated View and use the Search tool to search by MAC address.
2. Select the MAC address of your 5400-RM to bring up its Details page.
3. Select View Configuration in the Configuration section.
4. Select the Edit pencil icon at the top right of the page to make changes.

The 5400-RM will automatically support configuration updates after the next daily sync around 1AM UTC. To apply changes sooner than the next scheduled sync refer to the **Remote Commands** section for details on how to send a remote command.

Upgrading Firmware

To upgrade the firmware on your device:

1. Login to Accelerated View and use the Search tool to find the device by searching for its MAC address.
2. Select the MAC address of the device to bring up its details page.
3. Click on the **Settings** tab, then select the **View Configuration** link in the Configuration section of the page.
4. Once viewing the configuration profile, select the Edit pencil icon at the top right of the page.
5. Select the appropriate firmware version from the Firmware drop-down list.
6. Click the **Update** button.

Defining a Custom APN

If your device is unable to sync with Accelerated View because the device cannot establish a cellular connection without a custom APN refer to **Managing Device Locally** section.

1. Login to Accelerated View and use the Search tool to find the 5400-RM by searching for its MAC address.
2. Select the MAC address of the 5400-RM to bring up its details page.
3. Select the View Configuration link in the Configuration section of the page.
4. Once viewing the configuration profile, select the Edit pencil icon at the top right of the page.

5. Type in the custom APN into the APN entry located in the Modem section of the configuration.
6. Optional: If the custom APN requires a specific username and password, please input those into the Username and Password entries located in the Modem section of the configuration.
7. Click the **Update** button.

Using Remote Commands

The Accelerated View management portal allows you to send a specific set of remote commands to the device to provide control over the device without requiring any onsite interaction. These remote commands allow you to perform actions such as rebooting the device, triggering a configuration sync with Accelerated View, perform network speed tests, immediately probing the device for a real-time status, and more.

To send a remote command to an Accelerated 5400-RM:

1. Login to Accelerated View and use the Search tool to find the device by searching for its MAC address.
2. Select the MAC address of the device to bring up its details page.
3. Select the Commands drop-down list at the top-right of the page.

Immediate Update Device

1. Select Remote Commands.
2. Select Check Configuration option from the Commands drop-down.

Establishing WAN connectivity via Ethernet Port

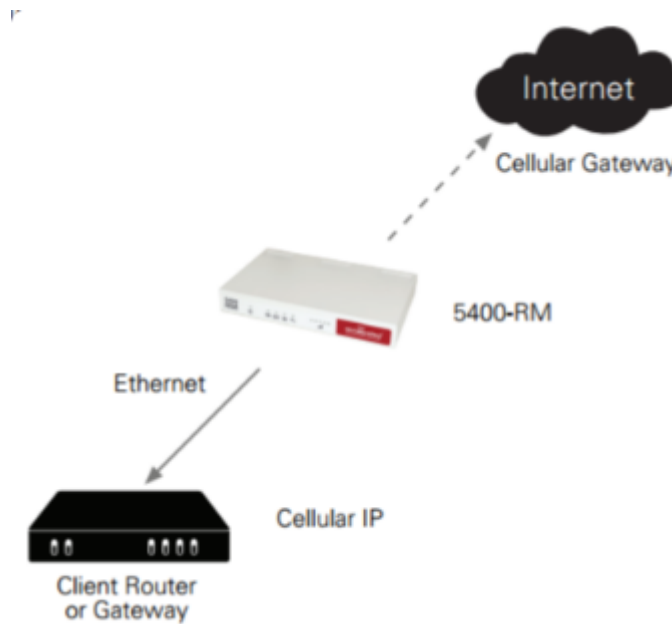
In order to provide a cellular connection to client devices, the Accelerated 5400-RM can be configured either in the default Passthrough (i.e. bridge) mode or DHCP Server/Router mode.

Passthrough/Bridge Mode

In this default mode, the device operates as a transparent bridge and all traffic on all ports is passed directly to and from the client device connected to the device's Ethernet port. In Passthrough mode, a single IP address will be available through the device's Ethernet port. Only one client device can be connected to the Accelerated 5400-RM through its Ethernet port at a time.

1. Login to Accelerated View and use the Search tool to find the device by searching for its MAC address.
2. Select the MAC address of the device to bring up its details page.
3. Select the View Configuration link in the Configuration section of the page.
4. Once viewing the configuration profile, select the Edit pencil icon at the top right of the page.

5. Under the **Modem** section of the configuration, open the Passthrough section and set the following options inside that section:
 1. Check **Enable**.
 2. Change **Device** to **LAN**.
 3. Change **Zone** to **Internal**.
6. Change the **Interface Type** under the **LAN** network section from **DHCP** to **Static IP Address**.
7. In the **Address**, enter in the IP address you wish to assign to the device for its LAN DHCP network (i.e. the gateway IP for the DHCP network).
8. Open the **DHCP Server** section and select **Disable**.
9. Click **Save** to apply the configuration changes.



Sample Diagram showing Passthrough Mode.

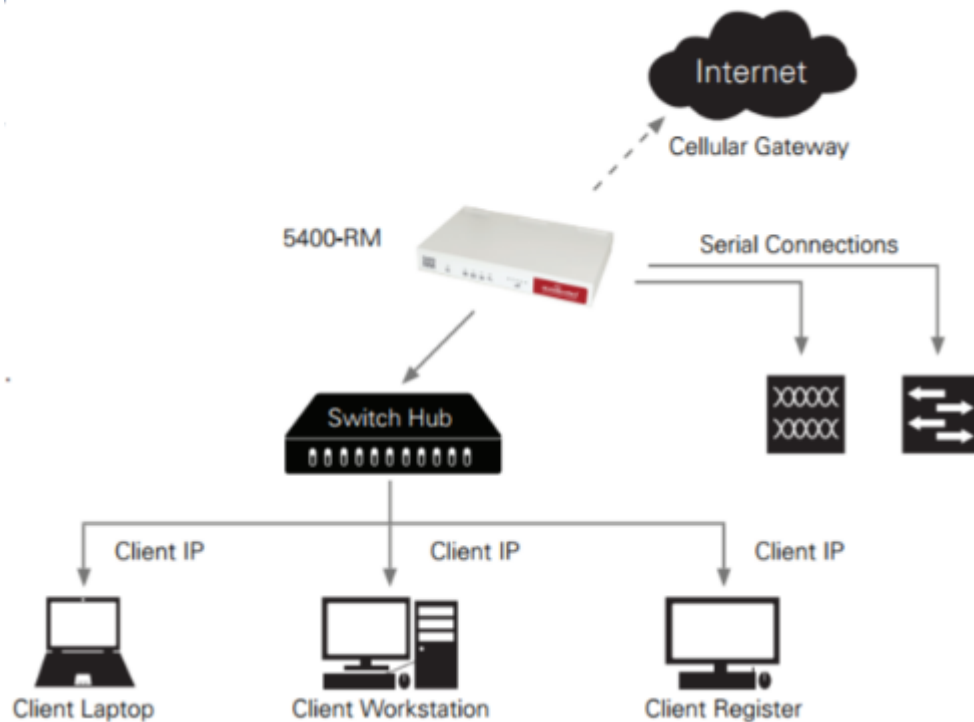
Router Mode

In this mode, the device operates as a standard DHCP router. The device will be configured to hand out a range of LAN IP addresses to client devices connected on its Ethernet port. Standard router options are available in the device's configuration, including DHCP lease options, DNS options, firewall options, and port forwarding rules.

The following list of steps details how to setup a simple DHCP server on the device in router mode.

1. Login to Accelerated View and use the Search tool to find the device by searching for its MAC address.
2. Select the MAC address of the device to bring up its details page.
3. Select the View Configuration link in the Configuration section of the page.

4. Once viewing the configuration profile, select the Edit pencil icon at the top right of the page.
5. Change the **Interface Type** under the LAN network section from DHCP to Static IP Address.
6. In the **Address**, enter in the IP address you wish to assign to the device for its LAN DHCP network (i.e. the gateway IP for the DHCP network).
7. Open the DHCP Server section and select **Enable**.
8. Click **Save** to apply the configuration changes.



Sample Diagram showing Router Mode

Learning More

In depth details on using Accelerated View can be found in the [Accelerated View User's Guide](#).

Managing Device Locally

The following Accelerated View actions are typically only performed by your network administrator. Note: Using Accelerated View to centrally manage your device is recommended. If you are not using Accelerated View, you must manage and configure your device using the local interface.

Connecting to the Device

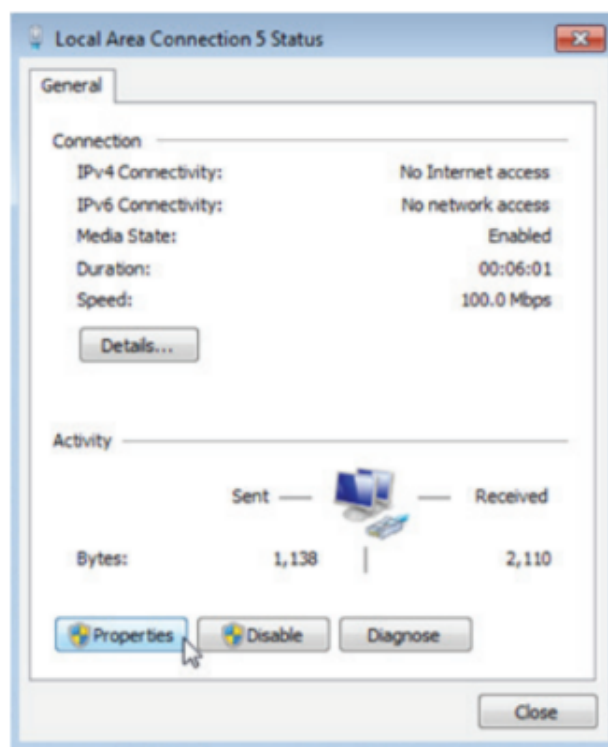
Communication with the device is typically via its Ethernet port. By default, you can connect to the device via its Ethernet port, at the IP address 192.168.210.1. You can access the device via this default IP address using a PC connected to its Ethernet port.

When connected to your site network, your Accelerated 5400-RM will attempt to use DHCP to establish a connection and obtain an IP address. If a DHCP server is operating on the site network then the device will receive an IP address configuration from the local network. You can also access the device using the IP address provided in the DHCP connection

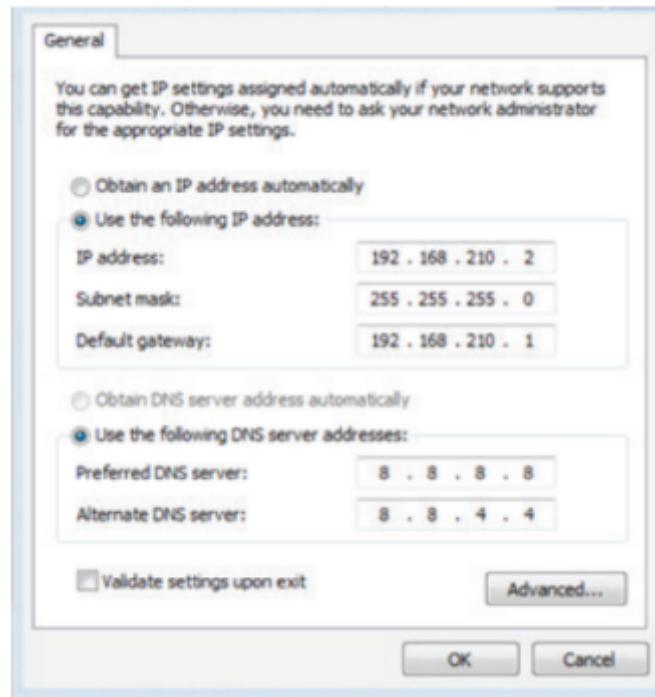
Manually Configuring PC to Connect to Device

To manually connect to the device, you must manually set an IP address on your PC to be able to communicate with the Accelerated 5400-RM.

1. Select the Properties of the relevant network connection on the Windows PC.



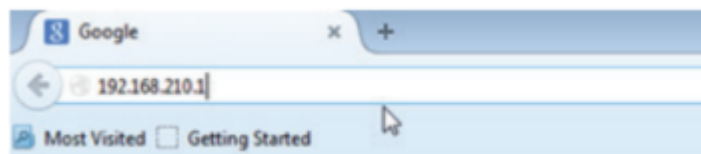
2. Click the Internet Protocol Version 4 (TCP/IPv4) parameter and select Properties and configure with the following details.



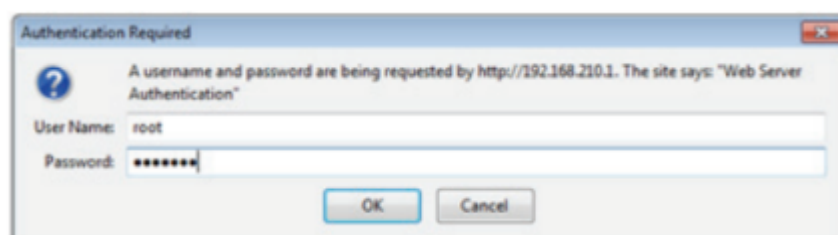
Logging into Device

To manually connect to the device, you must manually set an IP address on your PC to be able to communicate with the Accelerated 5400-RM.

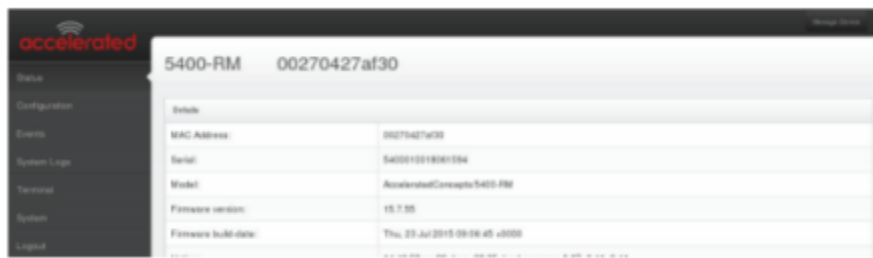
1. Open the web browser on the PC and type in the address bar, the IP address of the Accelerated 5400-RM (192.168.210.1) and hit Enter.



2. When prompted Enter - User Name: root Password: default.



3. The Accelerated 5400-RM default web user interface will be shown.

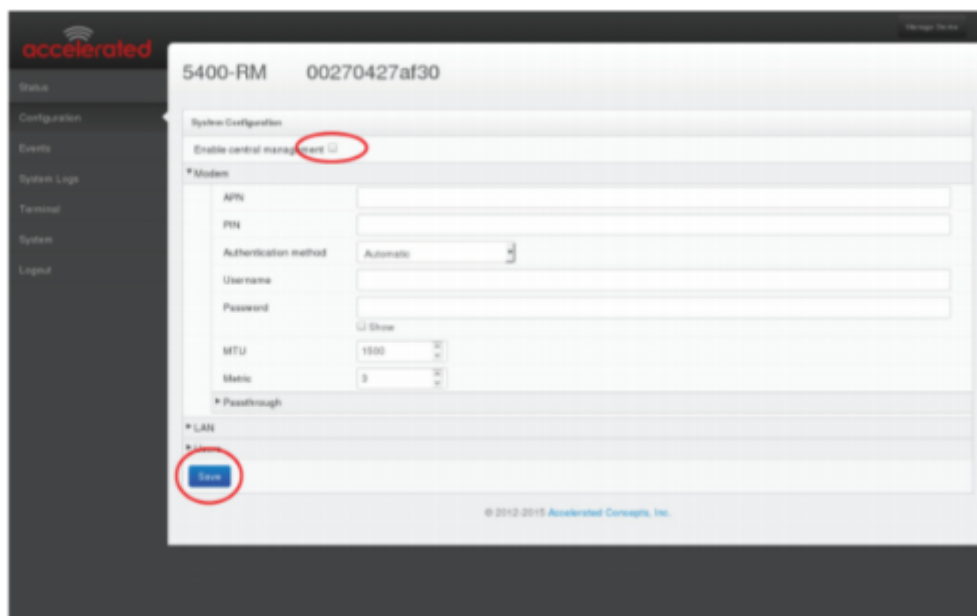


Advanced Local Configuration

Once logged in via the local web interface you must enable local management of the device to modify settings for the Cellular and Ethernet interfaces.

1. Uncheck box next to "Enable central management"
2. Click **Save**.

After saving the profile, the device will no longer attempt to sync with Accelerated View and a full range of available configuration options will be visible. Hovering your mouse over the name for a configuration option will display a pop-up providing help details about that option, including any default values.



Upgrading Firmware

1. Download the appropriate firmware file from Accelerated.
2. Connect to the device's web UI by connecting your PC to the WAN Ethernet port of the device and then going to <http://192.168.210.1>.

3. Select the System tab on the left side of the page.
4. Select the Browse button next to the Firmware image section.
5. Browse for and select the downloaded firmware file.
6. Click the Update Firmware button.

Do not turn off or unplug the device while it is upgrading its firmware. The upgrade process should take less than one minute.

Defining a Custom APN

1. Connect to the device's web UI by connecting your PC to the WAN Ethernet port of the device and then going to <http://192.168.210.1>. If the device does not give your PC an IP address via DHCP, you may need to configure your PC with the following static IP settings.
IP address for PC: 192.168.210.2 Subnet: 255.255.255.0 Gateway: 192.168.210.1
2. Select the Configuration tab on the left side of the page.
3. Type in the custom APN into the APN entry located in the modem section of the configuration.
4. Optional: If the custom APN requires a specific username and password, please input those into the Username and Password entries.
5. Click the Save button.

FAQs

How do I factory reset the Accelerated 5400-RM?

1. Ensure that the device has been powered on for at least 30 seconds.
2. Briefly press the Erase button located on the back of the device.

What IP address does the Accelerated 5400-RM use?

By default, the Accelerated 5400-RM will use 192.168.210.1. You can access the device through its WAN Ethernet port using this IP address.

What size SIM card does the Accelerated 5400-RM use?

The Accelerated 5400-RM supports standard mini-SIMs (2FF).

How do I insert a SIM into the Accelerated 5400-RM?

With the power disconnected, the SIM card should be inserted notch-end first with the gold contacts face down. The SIM slot is located on the back of the Accelerated 5400-RM between the power connector and the USB port. The SIM will click into place when fully inserted.

Does the Accelerated 5400-RM fail back to 3G?

Yes, if the Accelerated 5400-RM doesn't recognize a 4G/LTE network available, the device will automatically fallback to the highest available 3G network.

Does the Accelerated 5400-RM support IPv6?

Yes. In passthrough mode, when the 5400-RM receives an IPv6 prefix from the cellular network, it uses SLAAC to pass the prefix to the client device connected to its Ethernet port. The 5400-RM will also pass the IPv6 DNS server using the SLAAC RDNSS option and stateless DHCPv6.

Regulatory Guide

FCC

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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European Union

THIS PRODUCT MAY CAUSE INTERFERENCE IF USED IN RESIDENTIAL AREAS. SUCH USE MUST BE AVOIDED UNLESS THE USER TAKES SPECIAL MEASURES TO REDUCE ELECTROMAGNETIC EMISSIONS TO PREVENT INTERFERENCE TO THE RECEPTION OF RADIO AND TELEVISION BROADCASTS.

Supported Countries

FOR A FULL LIST OF CERTIFIED COUNTRIES GO TO: WWW.ACCELERATED.COM/COUNTRIES/5400_rm

3G Only Support

THE ACCELERATED 5400-RM CELLULAR REMOTE MANAGER DOES NOT SUPPORT 4G LTE IN BRAZIL, CHILE AND VENEZUELA AND WILL ONLY OPERATE IN 3G MODE.

End User Agreement

ACCELERATED CONCEPTS, INC. END USER AGREEMENT (v20160613.01)

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1. Your name, address and e-mail address
2. The Product model number and serial number
3. A copy of your receipt
4. A description of the problem

ACI will review your request and e-mail you either an RMA number and shipping instructions or a reason why your request was rejected. Properly pack and ship the Product to ACI with the RMA number written on the outside of each package. ACI will not accept any returned Products which are not accompanied by an RMA number. ACI will use commercially reasonable efforts to ship a replacement device within ten (10) working days after receipt of the Product. Actual delivery times may vary depending on shipment location. Products returned to ACI must conform in quantity and serial number to the RMA request. End User will be notified by e-mail by ACI in the event of any incomplete RMA shipments.

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These GNU General Public License, version 2 software components are available as a CD or download. The CD may be obtained for an administration fee by contacting Accelerated support at support@accelerated.com.

Local User Management

Skill level: *Beginner*

Goal

To create a new user and/or change the password of the default root user.

Details

Open the configuration profile for the 63xx-series device and make the following changes:

1. To update the root user password, enter in the new password in the in the **Authentication -> Users -> root -> Password** option.
2. To create a new local admin user:
 1. Under **Authentication -> Users -> Add User**, enter in the new username and click **Add**.
 2. Enter in the password for the new user
 3. Under **Groups** for the new user, select the default **admin** group. You can create a new group, or edit the admin group's privileges through the **Authentication -> Groups** section of the configuration profile.
3. Click **Save** or **Update** to apply the changes.

 **NOTE:** After saving a user's password in Accelerated View, it is stored as a salted hash for security purposes. Clicking **show** prior to committing the password will reveal the true value; clicking **show** after that password has been saved reveals the salted hash.

Central management

Modem

Network

VPN

Firewall

Services

Authentication

Idle timeout

Methods

Groups

Users

root

Enable

nondefaultpassword

Groups

SSH keys

new_user

Enable

new_password

Groups

1. Group

admin

SSH keys

TACACS+

System

Monitoring

Default Settings

Interface Priorities

- LAN set at a metric of 1
- Modem (cellular) at a metric of 3

Network Settings

- LAN port configured as primary Internet interface
- LAN port configured to obtain IP address via DHCP
- Cellular modem configured as backup Internet interface
- Source NAT enabled (outbound traffic)

Modem Settings

- Carrier Smart Select™ enabled
- Passthrough mode disabled
- APN fallback enabled. The following link can be used to view which APNs, based on carrier, are included in the default APN fallback list.
 - [APN Fallback List](#)

Central Management Settings

- Central Management enabled. The following servers will be contacted for a central configuration:
 - aview.accns.com
 - armt.att.com
 - av-wob.gcsc.att.com

Security Policies

- Packet Filtering set to block all inbound traffic (SSH, HTTP, etc.)
- Local SSH, Web Admin, and Local GUI access enabled via 192.168.210.1 IP address. See [Managing Device Locally](#) for details on accessing the 5400-RM via its default 192.168.210.1 IP.

Serial ports

- All four serial ports enabled with the same default settings
- Baud rate: 9600

- Data bits: 8
- Parity: none
- Stop bits: 1
- Flow control: none

Accessing Admin CLI

Skill level: *Beginner*

Goal

To show how to access Admin CLI using *Terminal on Unit or SSH*.

Setup

For *Terminal on Unit*, you will need either:

- a) Direct SSH access to the ACL device
- b) Access to Accelerated View, and an Accelerated cellular extender online and syncing with Accelerated View. If you see the Accelerated cellular extender listed as up (green status) in Accelerated View, you are good to go.

 For more information on how to access *Terminal on Unit or SSH*, please see the below link.

[Remote Access](#)

Details

Accelerated View utilizes the IPsec tunnel the Accelerated cellular extender establishes to ipsec.accns.com (or remote.accns.com) to provide terminal access to the console of the device.

 For details on the monthly data usage for this access, refer to the following article:

[Data Usage Estimates](#)

If a new configuration is applied to an Accelerated cellular extender, reboot the Accelerated cellular device so it rebuilds the IPsec tunnel and reports the new IPsec local IP address to Accelerated View. You can verify that Accelerated View is using the IPsec local IP as the management IP by looking at the *Uplink IP address* on the *Device Details* tab. This value should be set to a 192.x.x.x IP address (when using ipsec.accns.com or 172.x.x.x for remote.accns.com).

Search for devices ... Showing: All Organizations Advanced Search

MAC: 00270427AF43
Home / Devices / Cellular / 6300-CX / 00270427AF43

Cellular 6300-CX Reports Actions Commands SMS Pages

Device Details

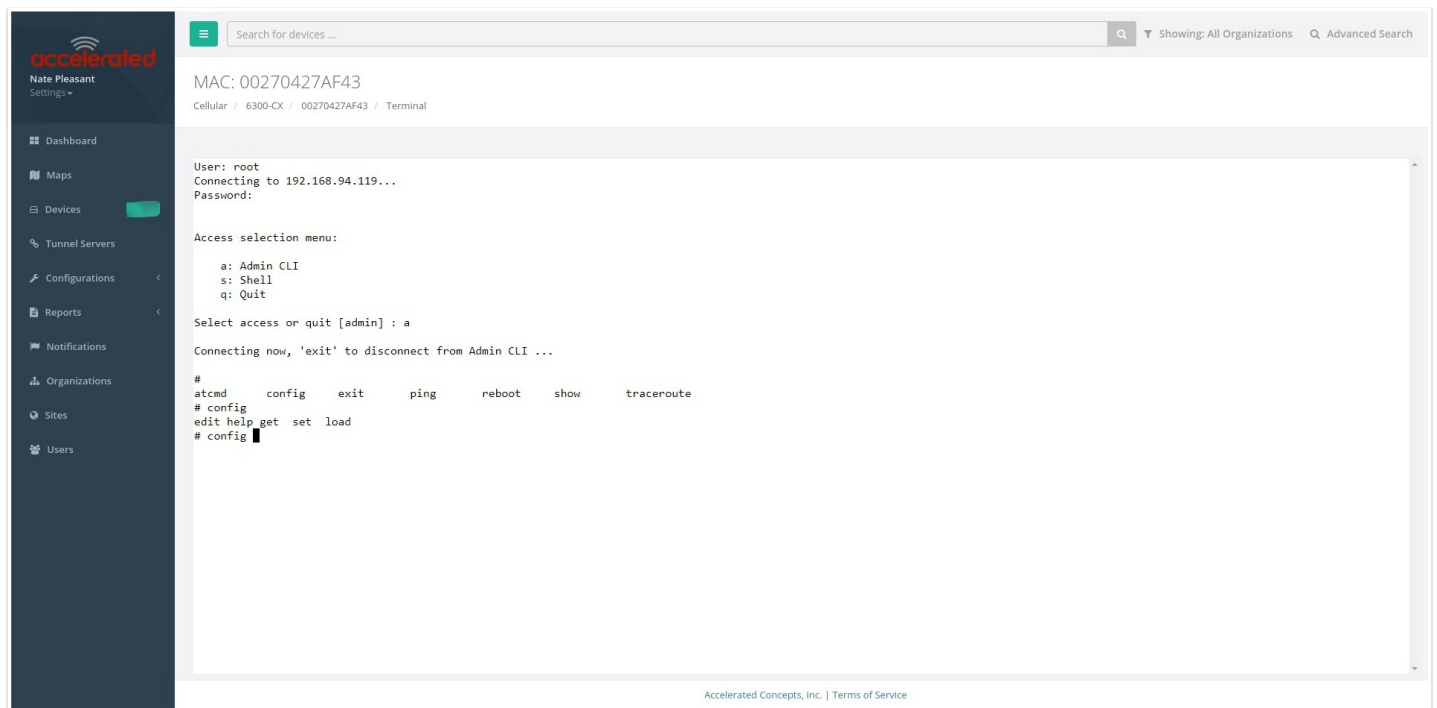
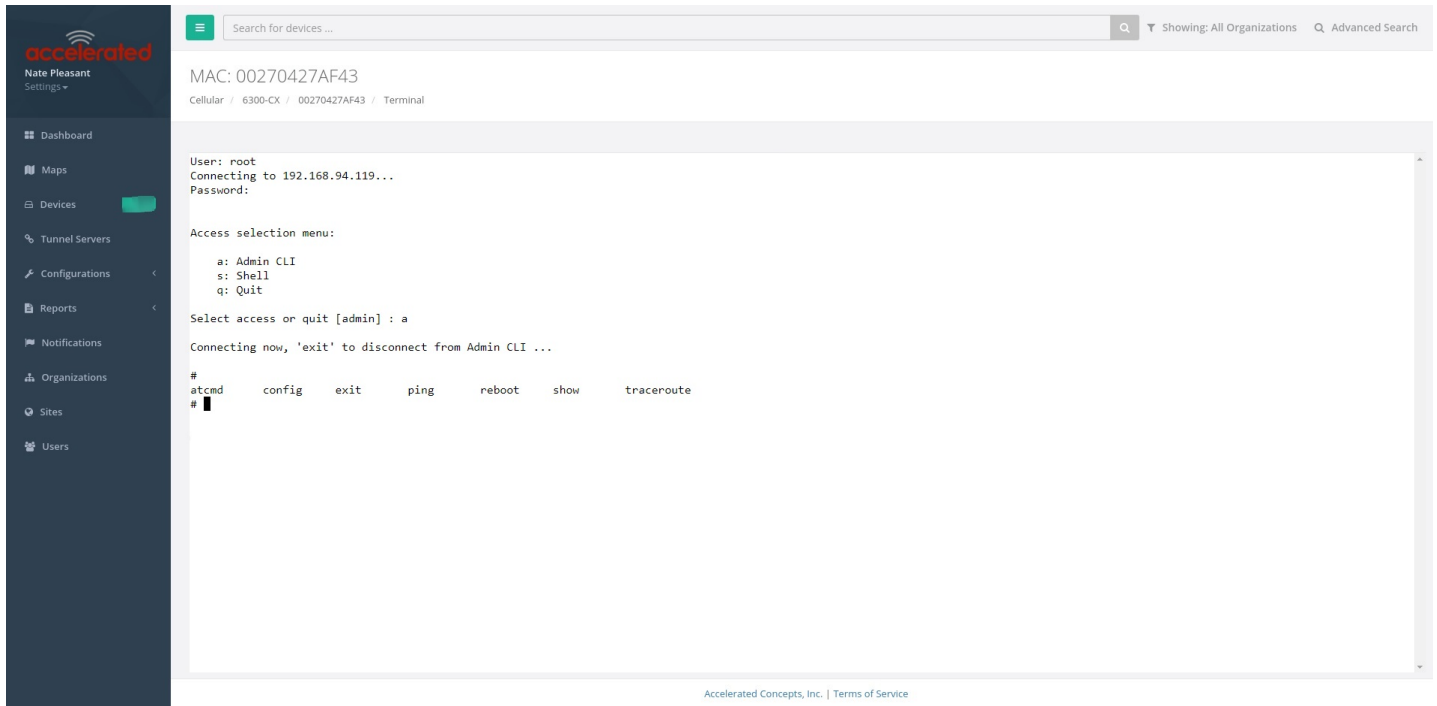
Configuration Settings Associated Devices Cellular Details Tunnels Networks Location Contacts

Organization:	EV Test
Site ID:	EV Home Test
Configuration:	EV Test 6330 MX Config 18.4.54.41 - Last checked at Sep 11 2018 10:40:51 (EDT)
MAC Address:	00270427AF43
Serial:	6300010017051541
Status:	Device is up
Model:	6330-MX
Uplink IP Address:	192.168.94.119
Terminal:	Terminal on Unit
Firmware Version:	18.4.54.41
Primary Interface:	wwan1
Activated At:	Oct 06 2017 14:45:57 (EDT)
Last Heartbeat:	Sep 11 2018 11:43:10 (EDT)
Last Restart:	Sep 11 2018 10:38:24 (EDT)
Data Plan:	N/A
Comment:	Empty

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Using the Terminal on Unit link

1. Once the correct management IP is reported from the Accelerated cellular extender to Accelerated View, clicking *Terminal on Unit* will open a page on Accelerated View to provide the user access to the console of the 63xx-series device.
2. Type in the *User* and *Password* for the device and hit enter.
3. At the prompt, type *a* for *Admin CLI* and hit enter. (If typing in the user and password brings you directly to the *# prompt*, you are already in the *Admin CLI*.)
4. At the *# prompt*, hit tab and the possible commands will be presented. The same is true for typing one of the commands followed by a space then hitting tab. This will show the available options within that command. (See command break down below)



Direct SSH access

SSH access can be gained through a local connection to the ACL device. You can access the cellular extender on its LAN IP address (default 192.168.2.1) or its default 192.168.210.1 IP address. Below is an example SSH login process.

1. SSH to the ACL device at its LAN IP address (default 192.168.2.1) or its default 192.168.210.1 IP address.

2. Type in the *User* and *Password* for the device and hit enter.
3. At the prompt, type *a* for *Admin CLI* and hit enter. (If typing in the user and password brings you directly to the *# prompt*, you are already in the *Admin CLI*.)
4. At the *# prompt*, hit tab and the possible commands will be presented. The same is true for typing one of the commands followed by a space then hitting tab. This will show the available options within that command. (See command break down below)

```
$ ssh root@192.168.2.1
$ password
Access selection menu:

    a: Admin CLI
    s: Shell
    q: Quit

Select access or quit [admin] : a

Connecting now, 'exit' to disconnect from Admin CLI ...

#
```

Command Breakdown

1. *atcmd* - run AT commands to cellular modem in the device
2. *config* - make config changes on the device, one at a time
3. *exit* - exit from the *Admin CLI* console
4. *ping* - ping an IP address or domain (Ctrl+c to stop)
5. *reboot* - reboot the device
6. *show* - display network or device version details
7. *traceroute* - perform traceroute to an IP address or domain