

SR-Series LTE Router

User Manual


acceleratedTM

Connected is Everything



Preface

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 **WARNING**

TO COMPLY WITH FCC/IC RF EXPOSURE LIMITS, AT LEAST 20CM SEPARATION DISTANCE MUST BE MAINTAINED BETWEEN ANY ANTENNA OF THE UNIT AND ANY PART OF THE USER AT ALL TIMES.

 **WARNING**

CA PROP 65 WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

 **CAUTION**

DO NOT USE AN ANTENNA THAT WASN'T SUPPLIED BY THE MANUFACTURER. IF A DIFFERENT ANTENNA IS REQUIRED, FIRST CONSULT ACCELERATED CONCEPTS, INC. FOR RECOMMENDATIONS THAT SUIT YOUR CIRCUMSTANCES.

 **WARNING**

THE UNIT MUST BE POWERED OFF WHERE BLASTING IS IN PROGRESS, WHERE EXPLOSIVE ATMOSPHERES ARE PRESENT, OR NEAR MEDICAL OR LIFE SUPPORT EQUIPMENT. DO NOT POWER ON THE UNIT IN ANY AIRCRAFT.

 **CAUTION**

BY PRESSING THE ERASE BUTTON WHEN POWERED UP, THE CONFIGURATION OF THE SR-SERIES IS ERASED AND THE UNIT IS REVERTED TO FACTORY DEFAULT SETTINGS.

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NOTE: SELECT A CHAPTER TO NAVIGATE DIRECTLY TO ITS CONTENT. CLICK THE **ACCELERATED** LOGO TO RETURN TO THIS PAGE AT ANY TIME.

Package Contents

NOTE

THE SR-SERIES NEEDS AT LEAST ONE ACTIVE SIM CARD (2FF) FOR LTE CONNECTIVITY.

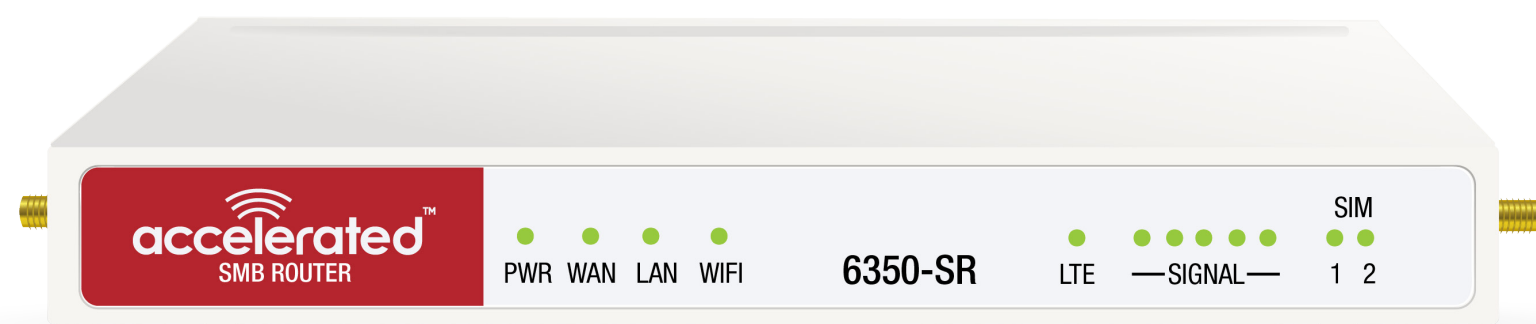
NOTE

WiFi ANTENNAS ARE NOT INCLUDED WITH 6355-SRs.

NOTE

ONE PLATE COVERS THE PLUG-IN SLOT COMPLETELY, THE OTHER HAS HOLES THAT ALLOW THE ANTENNAS TO PORTRUDE FROM THE CM MODULE.

① 6350-SR/ 6355-SR UNIT



② 1002-CM MODEM



③ CELLULAR ANTENNAS (2x)



④ WI-FI ANTENNAS (2x)



⑤ ETHERNET CABLE



⑥ POWER SUPPLY UNIT



⑦ INTERCHANGEABLE POWER PLUG TIPS*



⑧ SCREWS (2x)
DRYWALL ANCHORS (2x)
PLASTIC FACE PLATES (2x)

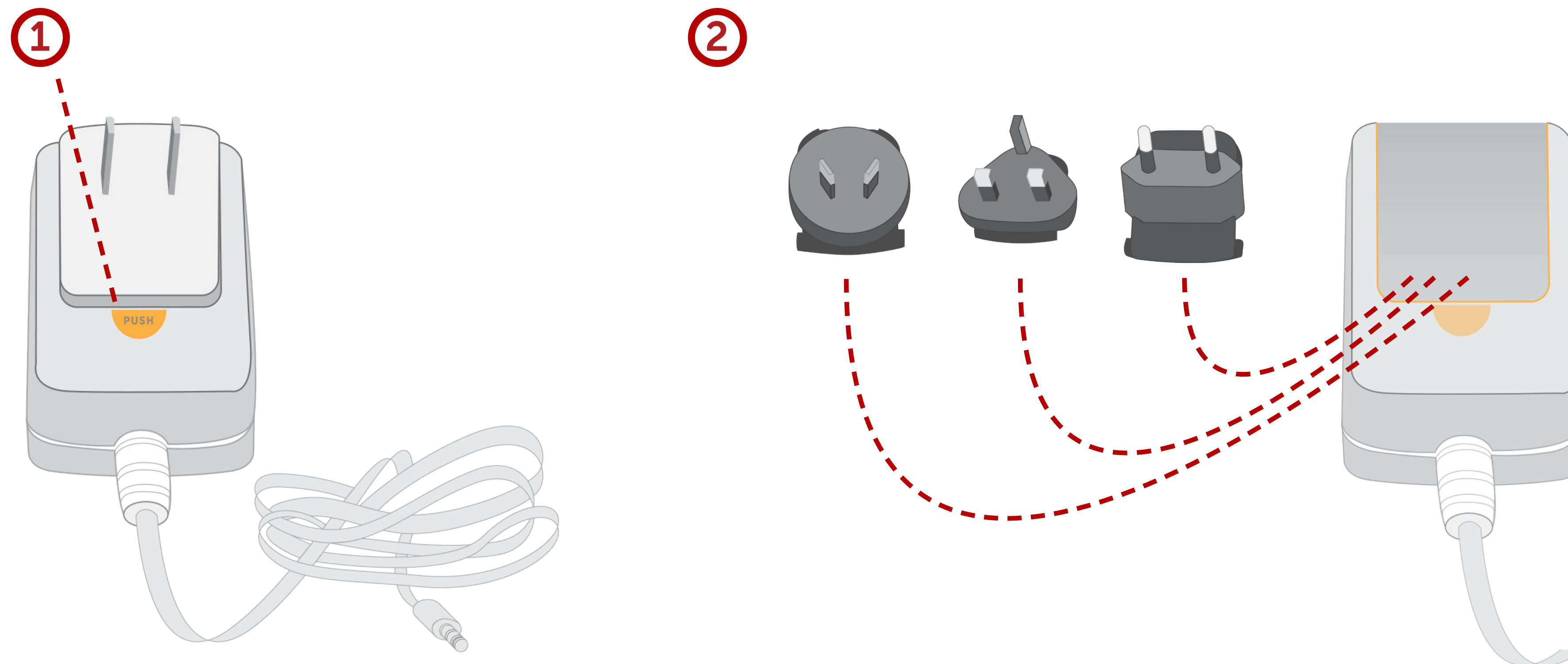
*ADDITIONAL POWER TIPS MAY NOT BE INCLUDED BY DEFAULT.

Exchanging Power Tips

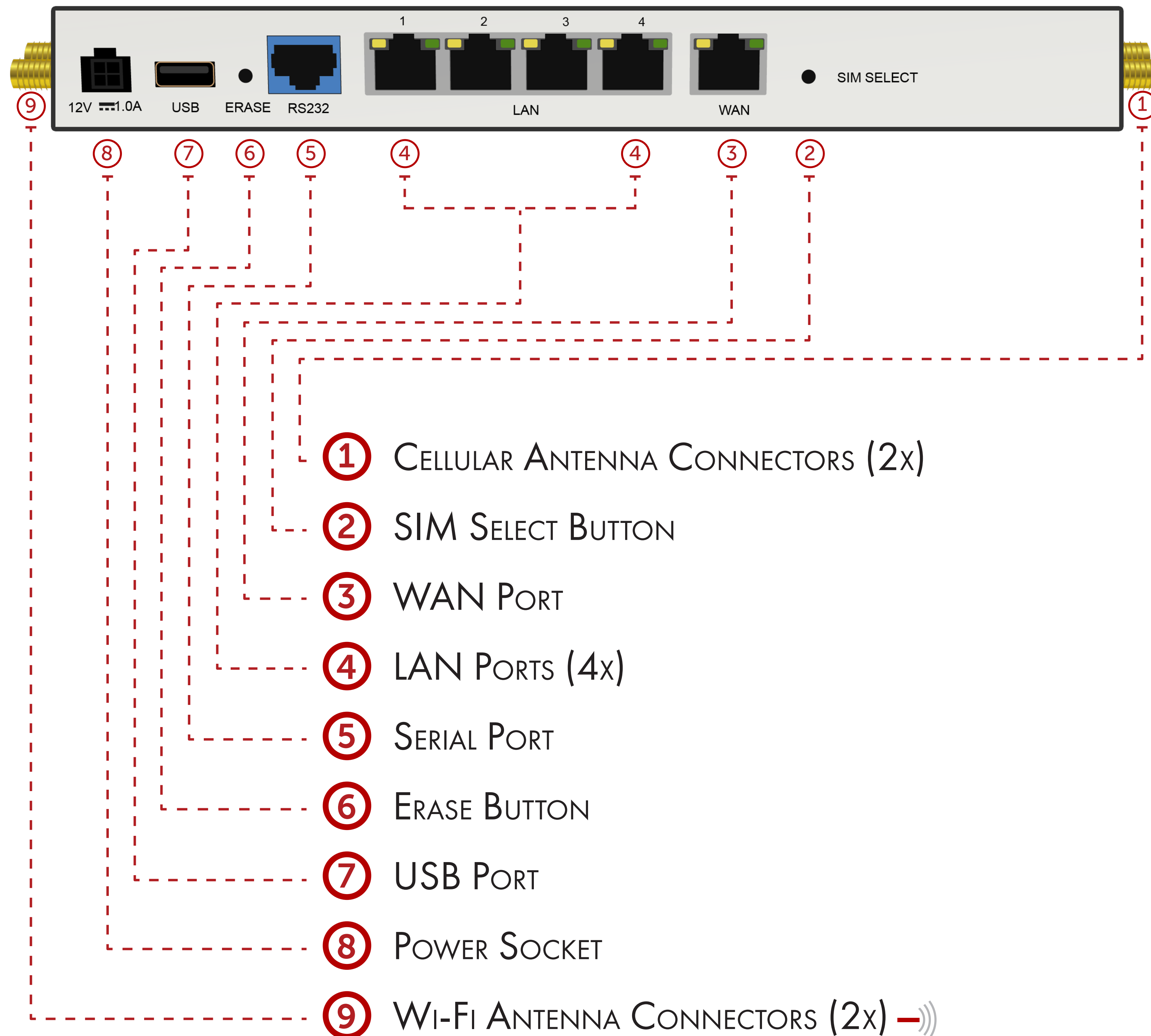
THE SR-SERIES ROUTER MAY INCLUDE FOUR INTERCHANGEABLE PLUG TIPS THAT ALLOWS THE POWER SUPPLY UNIT (PSU) TO OPERATE IN MOST COUNTRIES. THE PSU COMES WITH THE UNITED STATES STYLE PLUG INSTALLED.


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.

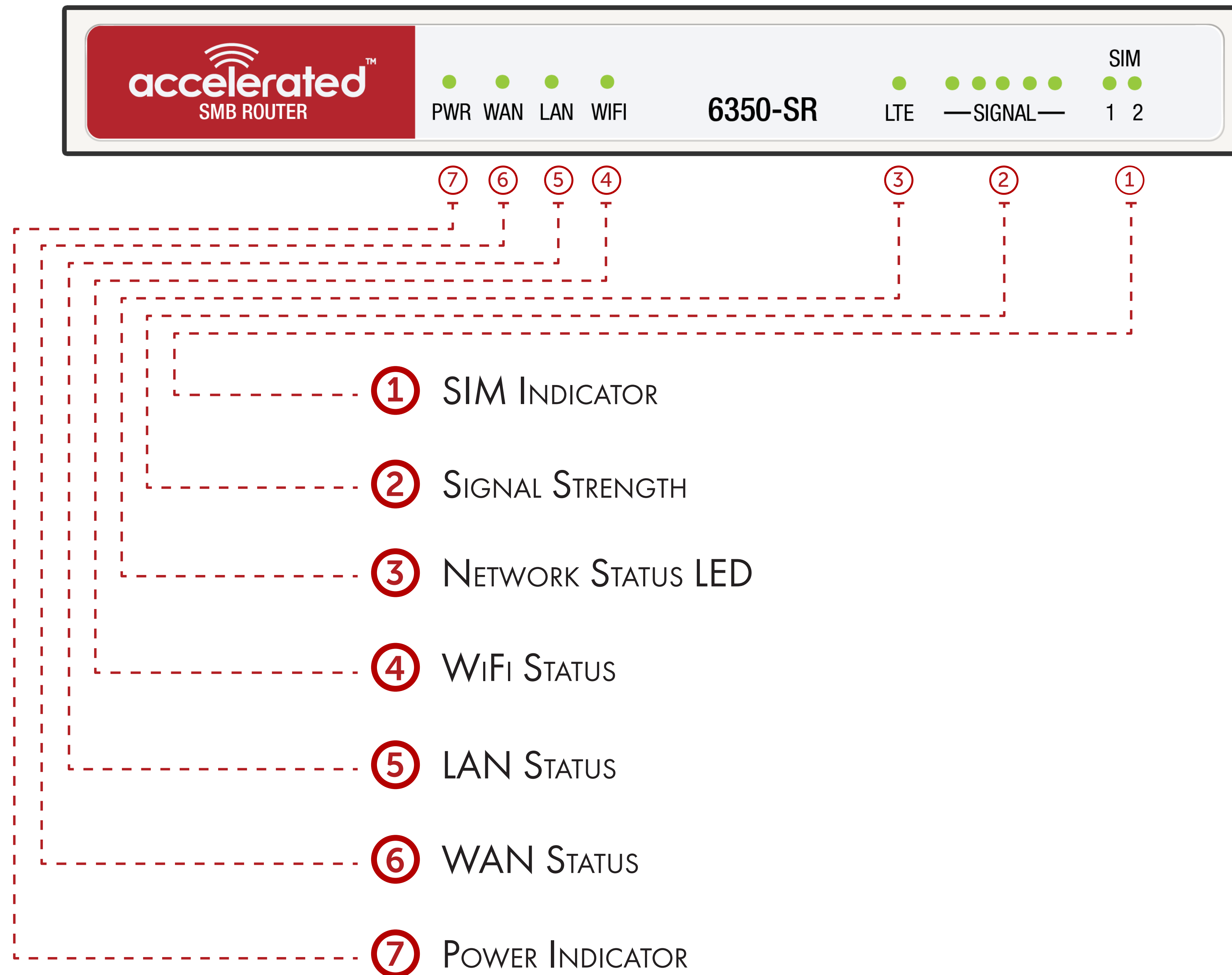


Ports and Connectors



 **NOTE**
WiFi ANTENNAS ARE NOT INCLUDED WITH 6355-SRs.

Device LEDs



Location Selection

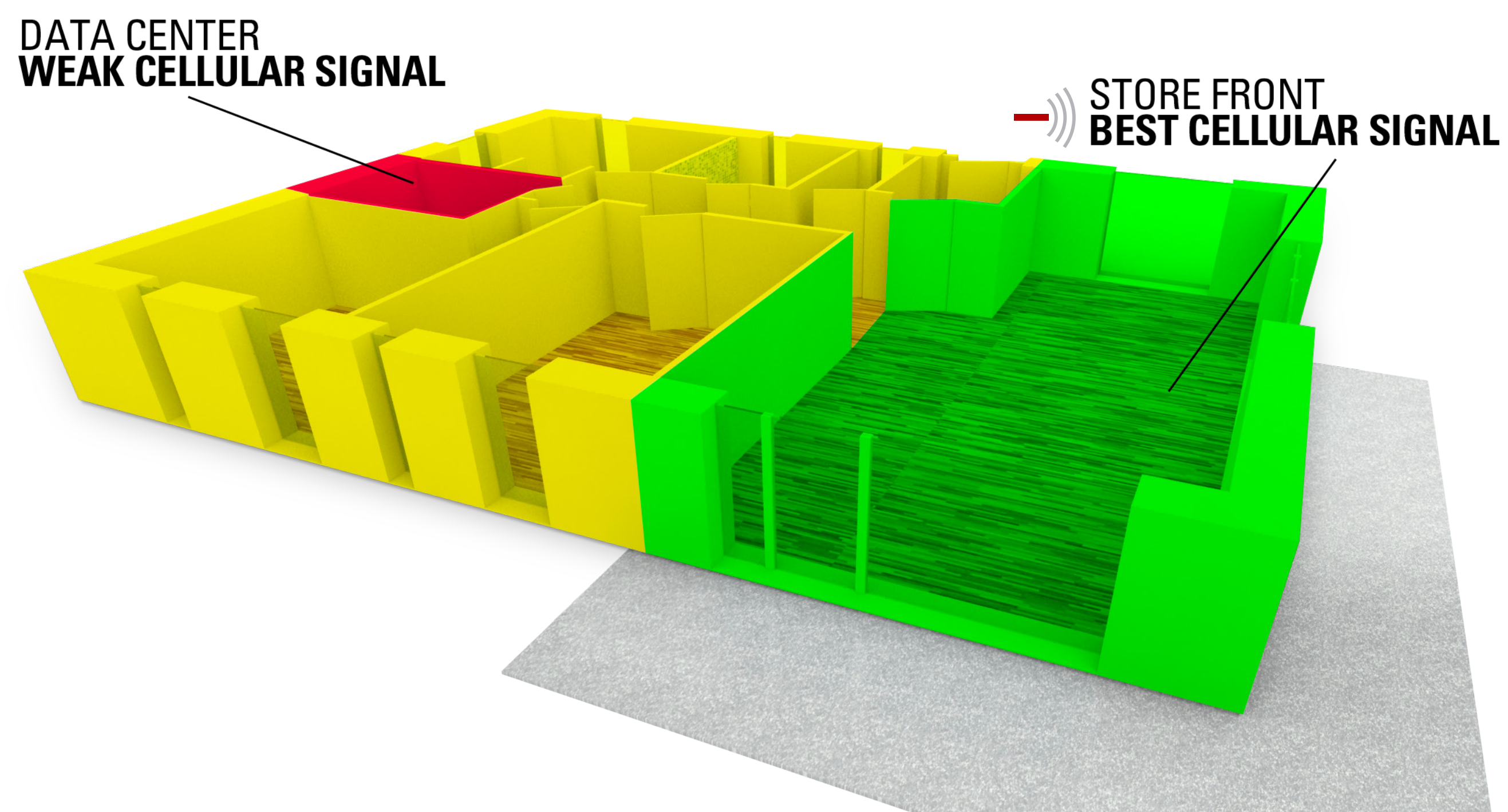
ALONGSIDE EXISTING INFRASTRUCTURE

WHEN DEPLOYING THE SR-SERIES ALONGSIDE EXISTING NETWORK EQUIPMENT, IN A TELCO CLOSET FOR INSTANCE, PLEASE CONSIDER THE FOLLOWING (WHEN POSSIBLE):

- AVOID METAL ENCLOSURES.
- MAXIMIZE DISTANCE FROM OTHER EQUIPMENT.
- MOUNT THE DEVICE ON THE MOST EXTERIOR WALL.
- HIGHER ELEVATIONS ARE IDEAL.

NEW DEPLOYMENTS

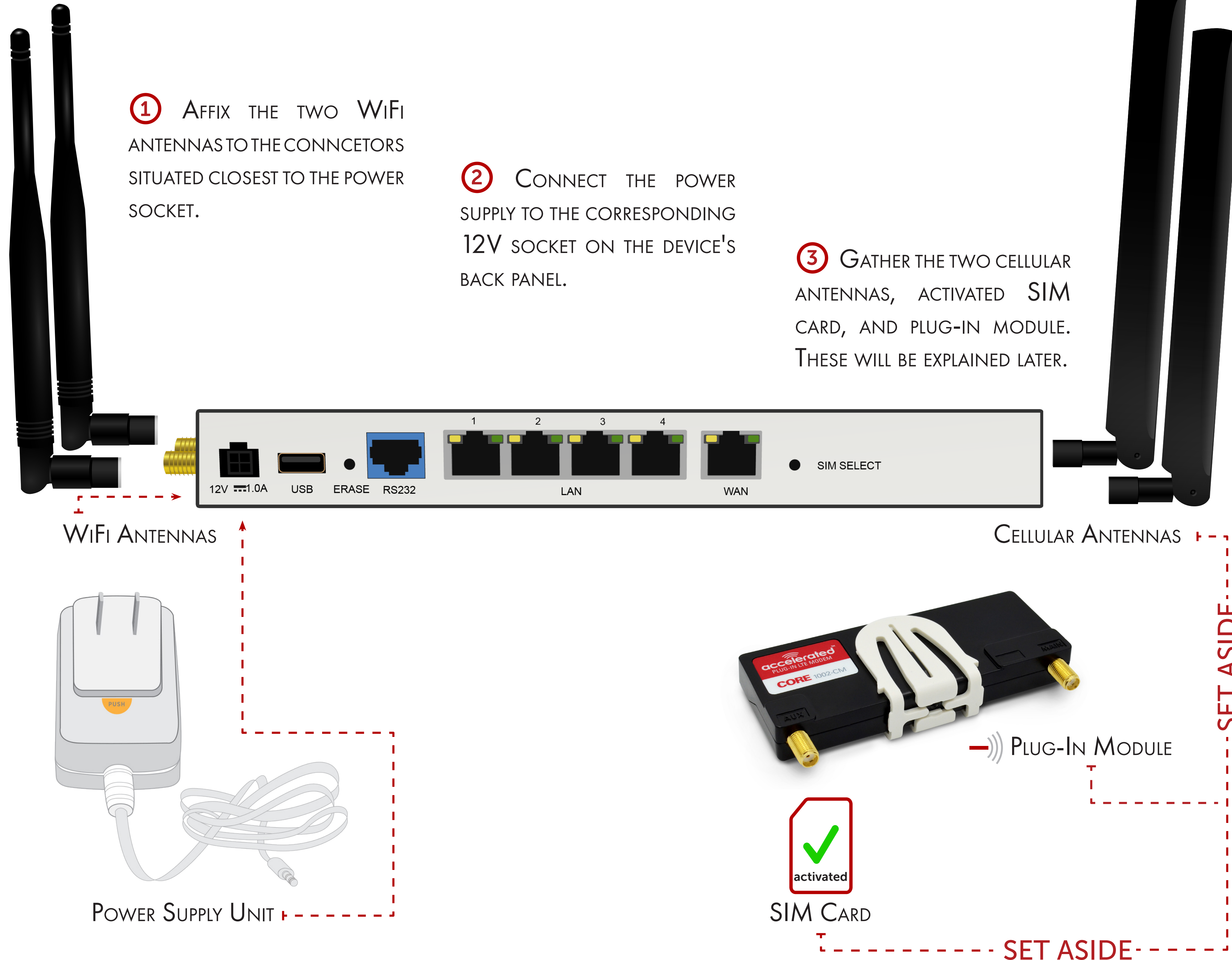
IF THERE AREN'T ANY NETWORKING APPLIANCES CURRENTLY INSTALLED AT THE DEPLOYMENT LOCATION, CONSIDER MOUNTING THE CELLULAR ROUTER CLOSE TO A WINDOW FOR OPTIMAL RECEPTION (IN ADDITION TO THE AFOREMENTIONED LIST).



NOTE

THE 6350-SR DOES NOT SUPPORT POWER OVER ETHERNET (PoE). IT MUST BE LOCATED NEAR AN ELECTRICAL OUTLET.

Physical Setup



① AFFIX THE TWO WiFi ANTENNAS TO THE CONNECTORS SITUATED CLOSEST TO THE POWER SOCKET.

② CONNECT THE POWER SUPPLY TO THE CORRESPONDING 12V SOCKET ON THE DEVICE'S BACK PANEL.

③ GATHER THE TWO CELLULAR ANTENNAS, ACTIVATED SIM CARD, AND PLUG-IN MODULE. THESE WILL BE EXPLAINED LATER.

NOTE
THERE IS A LABEL ON THE BOTTOM OF THE SR-SERIES ROUTER THAT INDICATES THE PLUG-IN MODULE'S IMEI NUMBER.
(THE MODULE IS REFERRED TO AS THE 1002-CM.)
VERIFY THIS IMEI NUMBER IS AN EXACT MATCH TO THAT ON THE PLUG-IN MODULE ITSELF, AS WELL AS THE LABEL ON THE ROUTER'S PACKAGING.

NOTE
THE PLUG-IN MODULE MUST BE INSTALLED BEFORE CONNECTING THE CELL ANTENNAS.
(SEE PAGE 11)

Plug-In LTE Module

① IDENTIFY THE SIM 1 AND SIM 2 SLOTS. IF USING ONLY ONE SIM CARD, INSERT IT INTO SIM 1. A SECOND SIM MAY BE INSERTED INTO SLOT SIM 2 FOR AN ALTERNATE WIRELESS CARRIER.

—)) ② WITH THE ANTENNAS' SMA CONNECTORS POINTING OUTWARD, SLIDE THE 1002-CM MODULE INTO THE SR-SERIES ROUTER. A CLICKING SOUND WILL INDICATE IT IS PROPERLY INSERTED.

—)) ③ SLIDE THE WHITE PLASTIC PLATE OVER THE ANTENNA CONNECTORS TO COVER THE PLUG-IN MODULE AS SHOWN; IT WILL CLIP INTO PLACE.

④ AFFIX THE CELLULAR ANTENNAS TO THE TWO CONNECTORS PROTRUDING FROM THE DEVICE.



To remove the plug-in LTE module, pinch the two vertical sides of the white clip (as shown above in picture #2) and slide out the module.

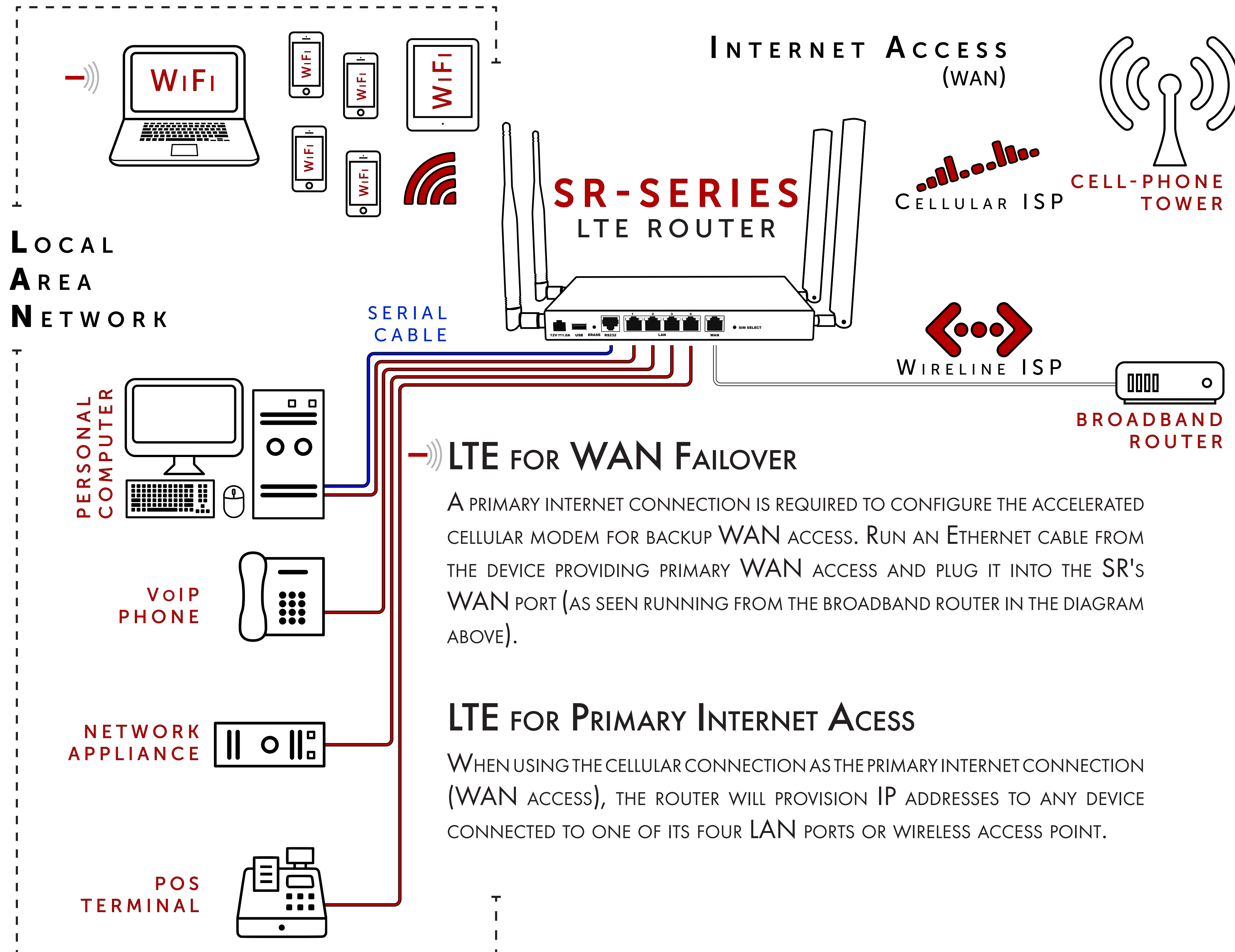
—)) NOTE

YOU MAY NEED TO PUSH ON THE WHITE CLIP FOR IT TO LOCK INTO PLACE ONCE INSERTED INTO THE ROUTER.

—)) NOTE

BE SURE TO USE THE PLATE WITH THE CUT OUTS FOR THE ANTENNA CONNECTORS.

Network Integration



NOTE
THE 6350-SR IS WiFi-ENABLED, WHILE THE 6355-SR LACKS WiFi CAPABILITIES.

NOTE
A SECOND INTERNET CONNECTION MUST BE AVAILABLE FOR CELLULAR FAILOVER.

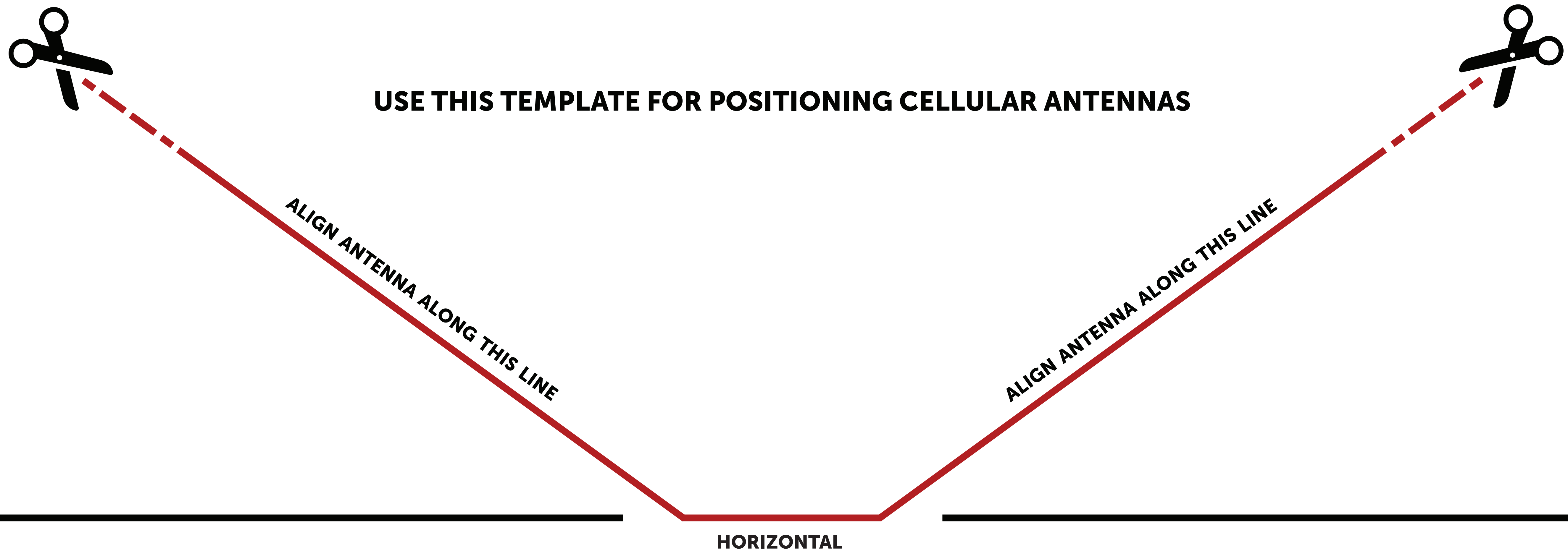
LTE FOR WAN FAILOVER

A PRIMARY INTERNET CONNECTION IS REQUIRED TO CONFIGURE THE ACCELERATED CELLULAR MODEM FOR BACKUP WAN ACCESS. RUN AN ETHERNET CABLE FROM THE DEVICE PROVIDING PRIMARY WAN ACCESS AND PLUG IT INTO THE SR'S WAN PORT (AS SEEN RUNNING FROM THE BROADBAND ROUTER IN THE DIAGRAM ABOVE).

LTE FOR PRIMARY INTERNET ACCESS

WHEN USING THE CELLULAR CONNECTION AS THE PRIMARY INTERNET CONNECTION (WAN ACCESS), THE ROUTER WILL PROVISION IP ADDRESSES TO ANY DEVICE CONNECTED TO ONE OF ITS FOUR LAN PORTS OR WIRELESS ACCESS POINT.

Antenna Positioning



LTE Signal Status

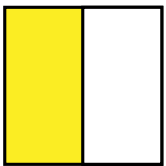
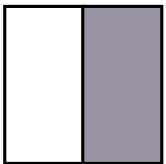
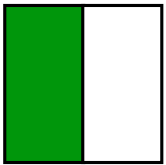
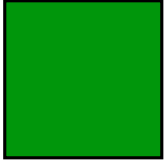
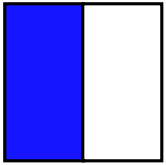
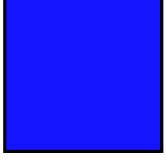
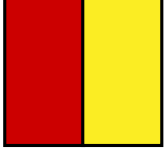
ONCE POWERED ON WITH ITS PLUG-IN MODULE CONNECTED (INCLUDING THE ACTIVATED SIM CARD), THE SR-SERIES ROUTER WILL BOOT UP AND ATTEMPT TO JOIN ITS CELLULAR NETWORK. INITIALIZATION MAY TAKE 30-60 SECONDS.

LEDs ON THE **SIGNAL STRENGTH INDICATOR** SHOW THE QUALITY OF CELLULAR RECEPTION.

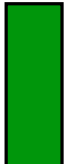
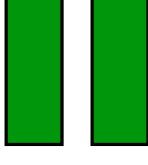
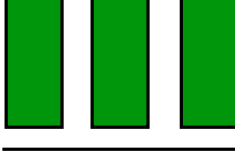
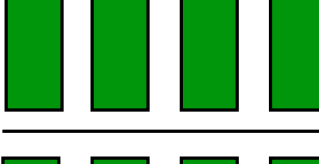

THE **NETWORK STATUS LED** DISPLAYS THE CELLULAR NETWORK CONNECTION'S STATUS (I.E. WHETHER IT IS ON A 3G OR 4G CONNECTION, OR UNABLE TO CONNECT TO EITHER).

PLEASE REFER TO THE FOLLOWING TABLES FOR MORE INFORMATION:

SIGNAL STRENGTH

	Flashing Yellow Initializing or starting up.
	Flashing White Connecting to the cellular network.
	Flashing Green Established a 2G or 3G connection, seeking Ethernet connection.
	Solid Green Established a 2G or 3G connection as well as Ethernet connectivity.
	Flashing Blue Established a 4G LTE connection, seeking Ethernet connection.
	Solid Blue Established a 4G LTE connection and Ethernet connectivity.
	Alternating Red/ Yellow Upgrading firmware. WARNING: DO NOT POWER OFF DURING FIRMWARE UPGRADE.

NETWORK STATUS

Signal Bars	Weighted dBm	Signal Strength %	Quality
	-113 to -99	0 - 23%	Bad
	-98 to -87	24 - 42%	Marginal
	-86 to -76	43 - 61%	OK
	-75 to -64	62 - 80%	Good
	-63 to -51	81 - 100%	Excellent

Default Settings

NOTE

THIS METRIC SETS THE WAN PORT AS THE SR'S PRIMARY NETWORK CONNECTION.

INTERFACE PRIORITIES

- WAN SET AT A METRIC OF 1 
- MODEM (CELLULAR) AT A METRIC OF 3

MODEM CONFIGURATION

- SIM FAILOVER AFTER 5 ATTEMPTS
- CARRIER SMART SELECT™ ENABLED

NETWORK SETTINGS

- LAN SUBNET OF 192.168.0.1/24
- DHCP ENABLED
- SOURCE NAT ENABLED (OUTBOUND TRAFFIC)

WiFi DEFAULTS

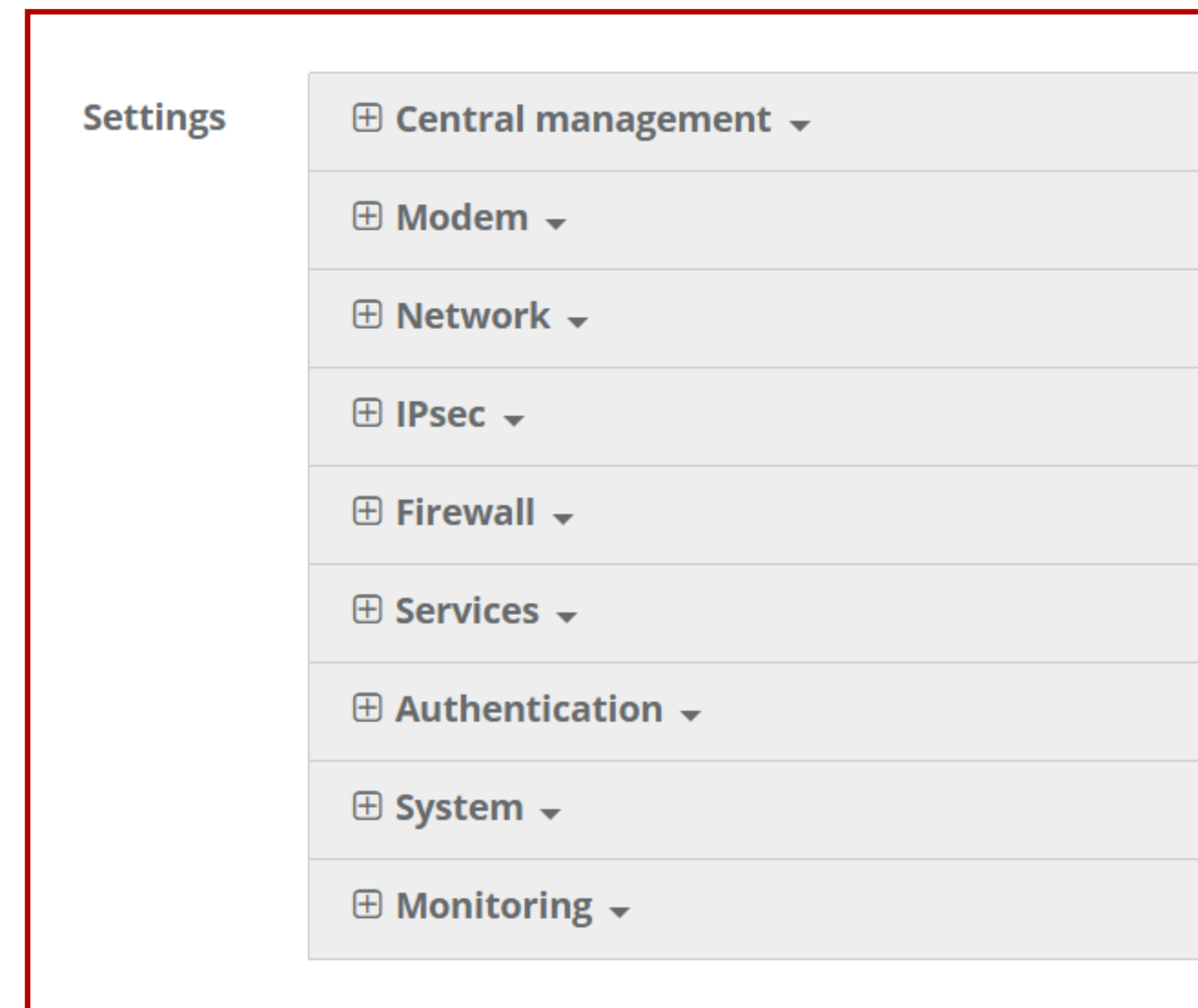
- SSID = ACCELERATED 6350-SR
- PASSWORD = ACCELERATED!

WAN FAILOVER CONDITIONS

- CONNECTIVITY MONITORING ENABLED FOR WAN
- HTTP AND PING TEST: 4 ATTEMPTS SET AT A 30S INTERVAL

SECURITY POLICIES

- PACKET FILTERING SET TO BLOCK ALL INBOUND TRAFFIC
- SSH, WEB ADMIN, AND LOCAL GUI ACCESS ENABLED



Please refer to subsequent sections for information on adjusting the default settings.

Custom Settings

—)) NETWORK-MANAGED CONFIGURATION

SR-SERIES ROUTERS, LIKE ALL ACCELERATED HARDWARE, WILL AUTOMATICALLY SYNCHRONIZE WITH THE ACCELERATED VIEW™ CLOUD MANAGEMENT PLATFORM SO LONG AS IT IS ABLE TO ESTABLISH A NETWORK CONNECTION. THIS WEB-BASED CONFIGURATION AND MONITORING PORTAL PROVIDES:

- REMOTE CONTROL AND CONFIGURATION UPDATES
- EMAIL NOTIFICATIONS FOR USER-DEFINED PARAMETERS (CONNECTION QUALITY, DATA USAGE, ETC.)
- OUT-OF-BAND SMS RECOVERY
- REAL-TIME MONITORING FOR:
 - SIGNAL STRENGTH AND QUALITY
 - NETWORK CONNECTIVITY DETAILS
 - LOCATION-BASED SERVICES
 - DEVICE PERFORMANCE

CHANGES MADE WITHIN ACCELERATED VIEW WILL BE APPLIED TO THE INTENDED RECIPIENT(S) AS SOON AS THOSE DEVICES CHECK IN WITH THE WEB SERVICE FOR SYNCHRONIZATION. THIS OCCURS ONCE EVERY 24 HOURS BY DEFAULT (THOUGH IT CAN BE RESCHEDULED AS NECESSARY). —))

—)) LOCAL CONFIGURATION

IF YOUR ACCELERATED 6350-SR OR 6355-SR IS NOT PROVISIONED IN ACCELERATED VIEW, IT WILL USE A DEFAULT LOCAL CONFIGURATION PROFILE (PER THE SETTINGS CITED ON PAGE 15).

PLEASE REFER TO THE LOCAL MANAGEMENT SECTION OF THIS MANUAL TO CHANGE SETTINGS FOR AN ACCELERATED SR-SERIES WITHOUT ACCESSING ACCELERATED VIEW.

—)) NOTE

THIS ASSUMES THE SR-SERIES ROUTER BEING CONFIGURED HAS BEEN REGISTERED WITH ACCELERATED VIEW.

—)) NOTE

TO APPLY ALL PENDING CHANGES IMMEDIATELY, REBOOT THE SR OR REFER TO THE STEP-BY-STEP GUIDANCE FOR **ISSUING REMOTE COMMANDS**.

—)) NOTE

CHANGES APPLIED LOCALLY WILL BE OVERRIDDEN SHOULD THE DEVICE THEN SYNC WITH ITS CONFIG FROM ACCELERATED VIEW.

Getting Started with Accelerated View™

THE FOLLOWING ACTIONS ARE TYPICALLY PERFORMED BY YOUR NETWORK ADMINISTRATOR.

CHANGES CAN BE MADE EITHER AT THE DEVICE OR GROUP LEVEL. SELECT OVERRIDE FROM ANY GIVEN MENU ITEM TO EDIT ITS INHERITED VALUE, OR NAVIGATE TO THE SR'S CORRESPONDING GROUP CONFIGURATION PAGE TO UPDATE THE CONFIG PROFILE SHARED BETWEEN ALL DEVICES BELONGING TO THIS GROUP.

IT IS RECOMMENDED THAT ACCELERATED VIEW CENTRALLY MANAGES THE 6350-SR AND 6355-SR ROUTERS; ONLY RESORT TO LOCAL MANAGEMENT AS NECESSARY. FOR ANY QUESTIONS REGARDING HOW TO ACCESS ACCELERATED VIEW, PLEASE CONTACT SUPPORT@ACCELERATED.COM OR YOUR PURCHASING PARTNER.

VIEWING & EDITING GROUP CONFIGURATIONS

TO BRING UP A DEVICE IN THE CONFIGURATION PORTAL:

1. USE THE **SEARCH** BAR TO FILTER DEVICES BY **MAC ADDRESS**.
2. SELECT THE **MAC** ADDRESS OF YOUR ROUTER AND BRING UP ITS **DETAILS** PAGE.
3. NAVIGATE TO THE **CONFIGURATION** TAB OF THE LEFT-SIDE MENU.
4. FOLLOW THE **EDIT GROUP CONFIGURATION** LINK.
5. ADJUST THE NECESSARY SETTINGS, CLICKING THE **UPDATE** BUTTON TO APPLY ANY CHANGES.

DEVICES WILL AUTOMATICALLY APPLY CONFIGURATION UPDATES AFTER THE NEXT DAILY SYNC (1 AM UTC BY DEFAULT). REFER TO THE **REMOTE COMMANDS** SECTIONS FOR DETAILS ON HOW TO APPLY CHANGES SOONER

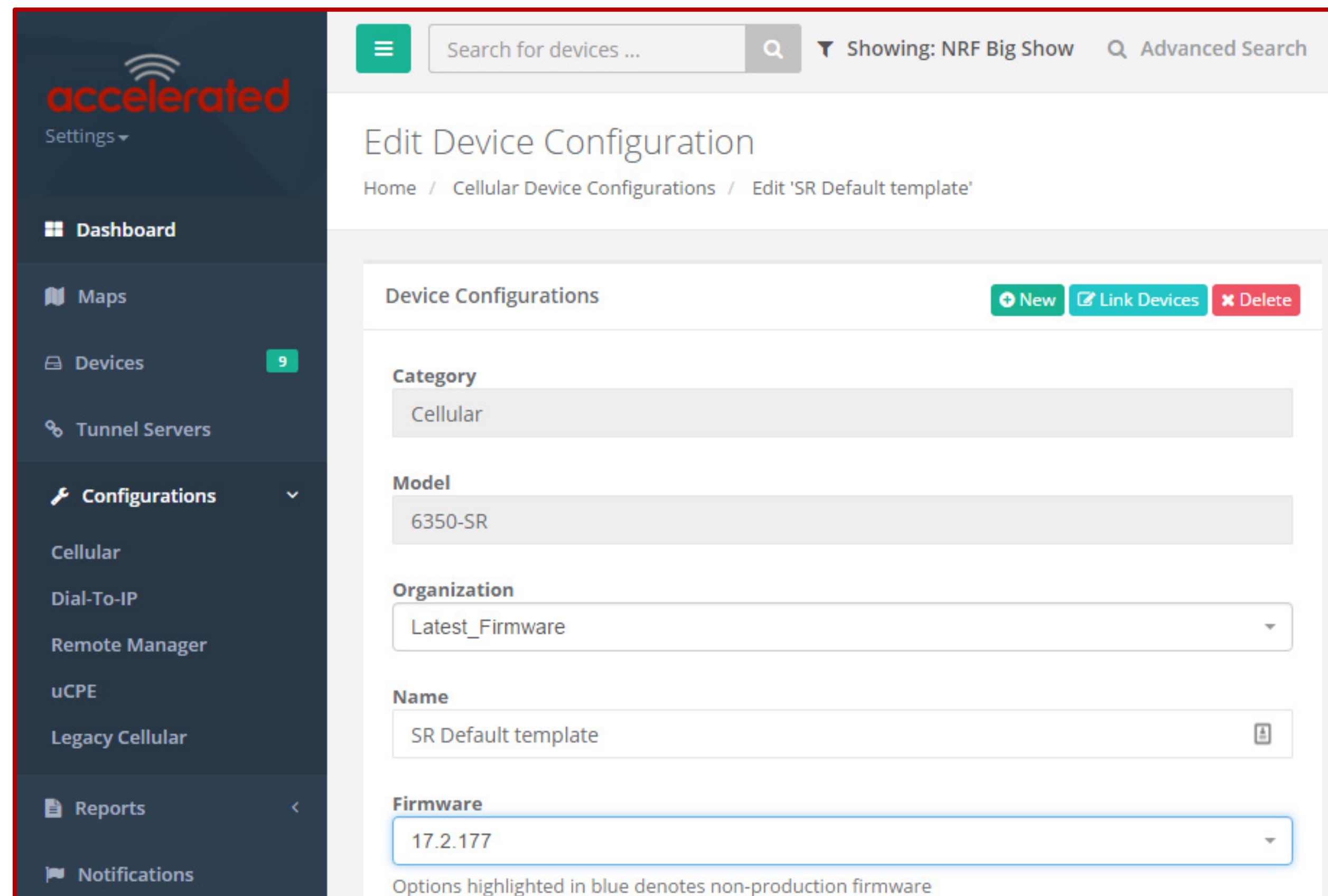
NOTE

THE ROUTER'S MAC ADDRESS IS ON ITS BOTTOM LABEL.

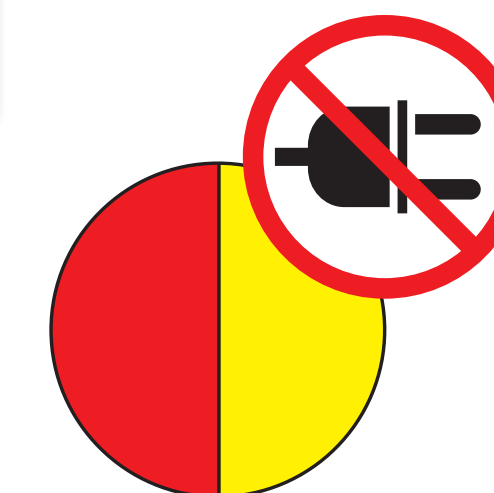
UPGRADING FIRMWARE

TO VIEW OR SELECT NEW FIRMWARE:

1. NAVIGATE TO THE **CONFIGURATION** TAB OF THE LEFT-SIDE MENU.
2. FOLLOW THE **EDIT GROUP CONFIGURATION** LINK.
3. LOCATE THE **FIRMWARE** PULL-DOWN MENU.
4. SELECT ON THE INTENDED VERSION AND WAIT FOR THE SETTINGS TO FINISH LOADING.
5. CLICK ON THE **UPDATE** BUTTON AT THE BOTTOM OF THE PAGE TO CONFIRM FIRMWARE SELECTION.



 **CAUTION:**
IF FLASHING RED/YELLOW
DO NOT REMOVE POWER



NOTE

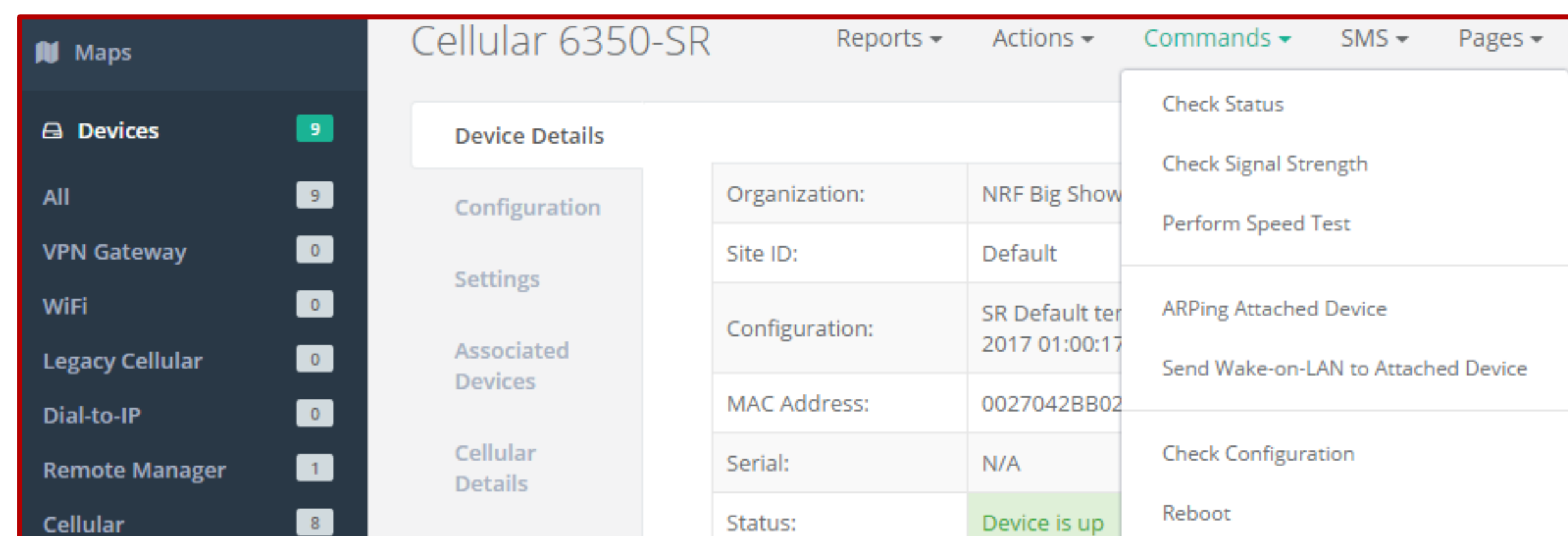
WHEN THE SR-SERIES ROUTER IS UPDATING FIRMWARE, ITS LEDs WILL FLASH RED AND YELLOW. DO NOT REMOVE POWER FROM THE DEVICE DURING THIS PROCESS.

USING REMOTE COMMANDS

ACCELERATED VIEW MAINTAINS A CONNECTION TO ALL ONLINE CLIENT DEVICES REGISTERED WITH THE SERVICE. USING THIS "TUNNEL," NETWORK ADMINISTRATORS CAN SEND A SPECIFIC SET OF REMOTE COMMANDS THAT WILL BE RECEIVED IMMEDIATELY AS OPPOSED TO WAITING TO CHECK IN AND APPLY ANY CHANGES PROPAGATED FROM THE CLOUD. THE FOLLOWING REMOTE COMMANDS ARE AVAILABLE:

- CHECK STATUS
- CHECK SIGNAL STRENGTH
- PERFORM SPEED TEST
- ARPING ATTACHED DEVICE
- SEND WAKE-ON-LAN TO ATTACHED DEVICE
- CHECK CONFIGURATION
- REBOOT

REMOTE COMMANDS MUST BE SENT TO EACH DEVICE IN QUESTION. TO DO SO, BROWSE TO THE **DEVICE DETAILS** SCREEN AND SELECT THE DESIRED OPTION FROM THE **COMMANDS** PULL-DOWN.



LEARNING MORE

DETAILS ON USING ACCELERATED VIEW CAN BE FOUND IN THE **ACCELERATED VIEW USER'S GUIDE**.

NOTE
SELECT THE "CHECK CONFIGURATION" MENU OPTION TO UPDATE A DEVICE IMMEDIATELY.

Interface Configuration

—))) CHANGING THE LAN SUBNET

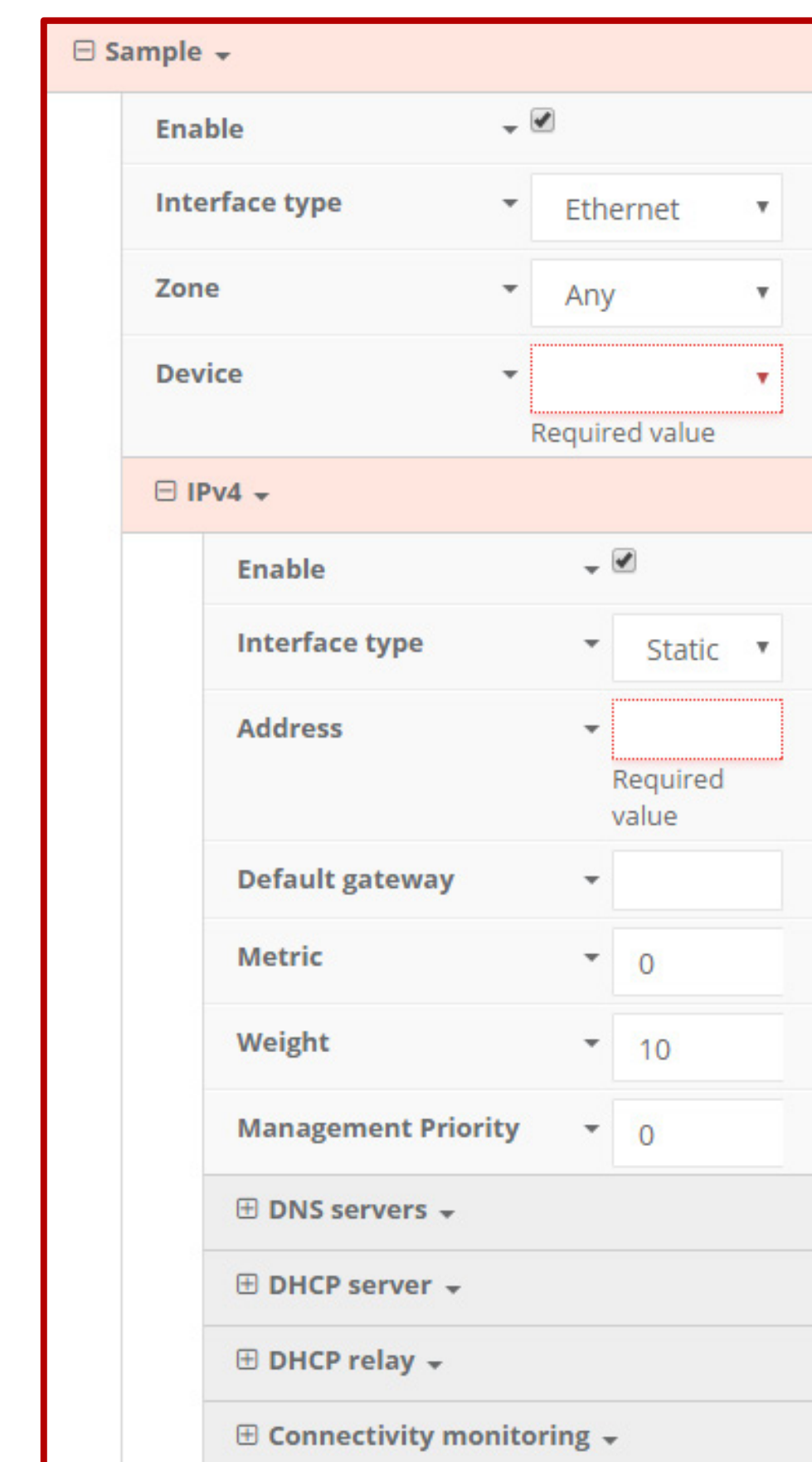
THE DEFAULT SUBNET -- 192.168.0.X -- CAN BE ADJUSTED TO ANY RANGE OF PRIVATE IPs BY COMPLETING THE FOLLOWING STEPS:

1. EXPAND THE CONFIGURATION PAGE TO **NETWORK > INTERFACES**.
2. SELECT THE **LAN** INTERFACE THAT NEEDS TO BE ADJUSTED AND EXPAND ITS **IPv4** ENTRY.
3. THE **ADDRESS** FIELD CONTAINS THE RANGE OF IPs AVAILABLE FOR ASSIGNMENT.
NOTE: THE SUBNET MASK MUST ALSO BE SPECIFIED. —)))

CREATING NEW INTERFACES

ADDITIONAL INTERFACES MAY BE CONFIGURED TO FURTHER DIFFERENTIATE PORT FUNCTIONALITY:

1. EXPAND THE CONFIGURATION PAGE TO **NETWORK > INTERFACES**.
2. NAME THE NEW **INTERFACE** USING THE TEXT FIELD AT THE BOTTOM OF THE LIST, CLICKING THE **ADD** BUTTON TO CONTINUE.
3. ENSURE THE APPROPRIATE SETTINGS ARE ENTERED INTO THE NEW COLLAPSIBLE SECTION GENERATED FOR THE INTERFACE:
 - THE **ENABLE** CHECKBOX MUST REMAIN SELECTED.
 - **INTERFACE TYPE** WILL STAY **ETHERNET**.
 - THE DEFAULT **ZONE**, "ANY," SUFFICES UNLESS SECURITY POLICIES NECESSITATE A DIFFERENT SELECTION.
 - **DEVICE** ESTABLISHES WHICH PORT(S) ARE ASSIGNED TO THE NEW INTERFACE.
 - EXPAND THE **IPv4** CATEGORY TO SPECIFY THE INTERFACE TYPE AND THE DESIRED ADDRESS RANGE. —)))
 - ADDITIONAL SETTINGS FOR **DNS** AND **DHCP** CONFIGURATION CAN BE ADJUSTED AS NECESSARY.
 - REFER TO THE **FAILOVER** SECTION FOR INFORMATION ON **CONNECTIVITY MONITORING**.



The screenshot shows a configuration page for a network interface. The 'Sample' section is expanded to show 'IPv4' settings. The 'Enable' checkbox is checked. The 'Interface type' is set to 'Ethernet'. The 'Zone' is set to 'Any'. The 'Device' field is empty and marked as a 'Required value'. The 'IPv4' section is expanded to show 'Enable' checked, 'Interface type' set to 'Static', and 'Address' field empty and marked as a 'Required value'. Other settings include 'Default gateway', 'Metric' (0), 'Weight' (10), and 'Management Priority' (0). There are also expandable sections for 'DNS servers', 'DHCP server', 'DHCP relay', and 'Connectivity monitoring'.

—))) NOTE

THE DEFAULT SUBNET IS SET IN THE **IPv4 ADDRESS** FIELD OF THE LAN INTERFACE.

—))) NOTE

CHANGES MADE TO THE **IPv4 ADDRESS** MUST ALSO BE UPDATED IN THE **DHCP SERVER** ENTRY TO PRESERVE FUNCTIONALITY.

—))) NOTE

THIS ASSUMES A **STATIC (PRIVATE) IP** IS DESIRED FOR THE INTERFACE.

VLAN MANAGEMENT

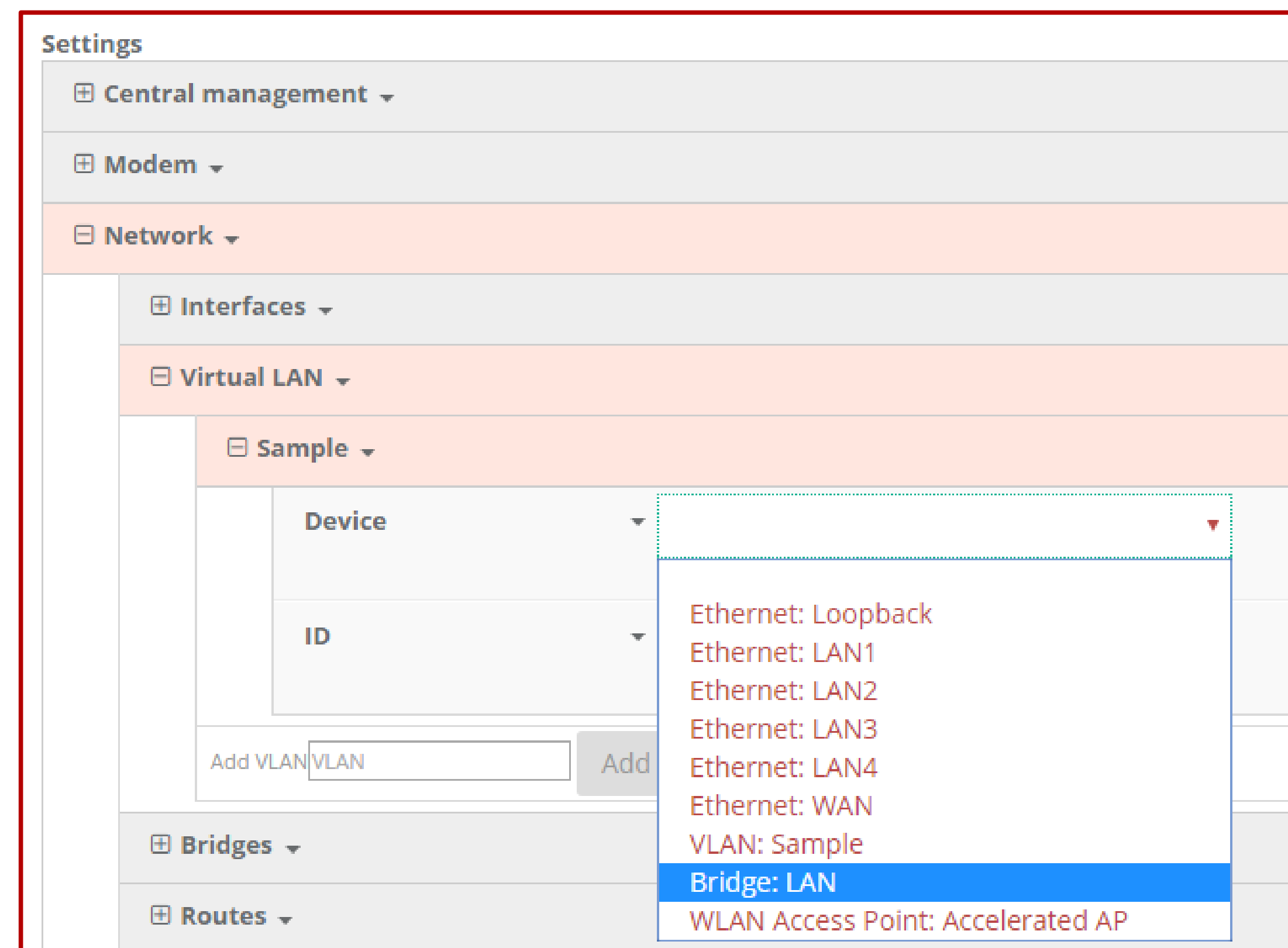
BEFORE CREATING A VIRTUAL LAN ROUTE FOR THE SR-SERIES ROUTER, BE SURE THAT ITS CORRESPONDING LAN INTERFACE HAS BEEN CONFIGURED (PER THE STEPS ON THE PREVIOUS PAGE).

THE INTERFACE'S **DEVICE** MUST BE SET TO ONLY INCLUDE THE PORT(S) THAT WILL BE UTILIZING THE VLAN DESIGNATION. USE THE PULL-DOWN MENU TO SPECIFY AN INDIVIDUAL ETHERNET LAN PORT, OR CHOOSE THE "BRIDGE: LAN" OPTION TO ASSIGN ALL FOUR PORTS.

ONCE THE INTERFACE IS CREATED, IT WILL BE SELECTABLE AS A **DEVICE** IN THE VLAN'S PULLDOWN MENU. SEPARATE VLANS BY ASSIGNING EACH A UNIQUE **ID** NUMBER. 

NOTE

FOR GUIDANCE ON HOW TO CREATE BRIDGES WITH LESS THAN FOUR PORTS, PLEASE REFER TO THE **ACCELERATED UNIVERSITY** KNOWLEDGE ARTICLE.



WiFi Options

IMPORTANT: THE 6355-SR DOES NOT HAVE WiFi CAPABILITIES. THE FOLLOWING INFORMATION APPLIES TO THE **6350-SR ONLY**.

WIRELESS LAN

PER THE DEFAULT CONFIGURATION PROFILE, THERE WILL BE ONE AVAILABLE SSID: "ACCELERATED 6350-SR."

WiFi-ENABLED SRs CAN BROADCAST UP TO A TOTAL OF 8 WLAN SSIDs SIMULTANEOUSLY. TO CREATE ADDITIONAL SSIDs OR TO CHANGE THE CONFIGURATION OF EXISTING ONES:

1. NAVIGATE TO THE DEVICE'S (OR GROUP'S) **CONFIGURATION** PAGE.
2. EXPAND **NETWORK > WIRELESS LAN**.
3. VERIFY THAT **ENABLED** IS SELECTED AND ADJUST THE **CHANNEL** AND **BEACON INTERVAL** IF NECESSARY.
4. EXPAND THE **ACCESS POINTS** MENU TO VIEW EXISTING SSIDs OR CREATE NEW ONES.
5. EACH **WLAN AP** IS LISTED AS ITS OWN COLLAPSABLE MENU FEATURING:
 - A. **ENABLED STATUS BOX**
 - B. **SSID**
 - C. **SSID BROADCAST**
 - D. **ENCRYPTION TYPE**
 - E. **PRE-SHARED KEY**
6. TO CREATE A NEW **AP**, SPECIFY ITS NAME IN THE CORRESPONDING TEXT FIELD AND CLICK THE **ADD** BUTTON.

CLIENT MODE

IN ADDITION TO SERVING AS AN INDEPENDENT **WLAN ACCESS POINT**, THE 6350-SR'S WiFi CAN BROADCAST IN "CLIENT MODE" TO SERVE AS A SUPPLEMENTAL **AP** TO RELAY A WIRELESS LAN ORIGINATING FROM ANOTHER **WiFi-ENABLED ROUTER** BY ENTERING THAT NETWORK'S **SSID** AND **PRE-SHARED KEY**.

WiFi AS WAN

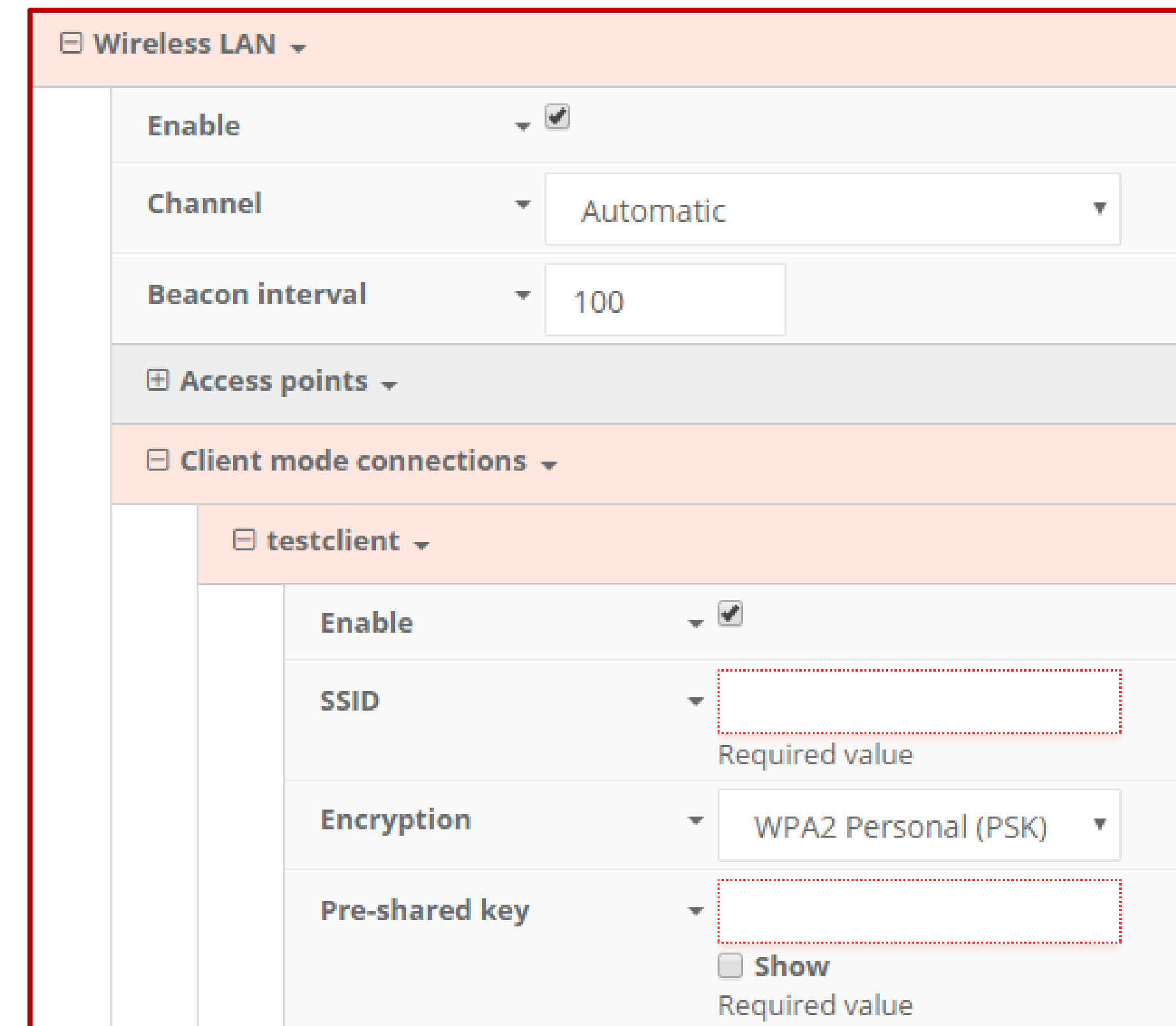
CLIENT MODE CAN ALSO BE USED TO LEVERAGE THE 6350-SR'S WiFi TO RELAY INTERNET ACCESS (WAN) PROVIDED BY ANOTHER ROUTER'S WIRELESS AP.

BEFORE CONFIGURING THE 6350-SR FOR WiFi-AS-WAN (WAW) CLIENT MODE, IDENTIFY THE SSID THAT THE 6350-SR SHOULD CONNECT TO, INCLUDING ITS BROADCASTING CHANNEL, AUTHENTICATION DETAILS FOR THE SSID, AND INTERFACE PRIORITIZATION FOR THE WAW CONNECTION (I.E. SHOULD IT TAKE PRECEDENCE OVER THE WAN ETHERNET PORT).

NOTE

FOR DETAILS ON HOW TO CREATE NEW INTERFACES, REFER TO THE GUIDANCE ON PAGE 20.

1. UNDER **NETWORK > WIRELESS LAN > CLIENT MODE CONNECTIONS**, CREATE A NEW ENTRY NAMED "TESTCLIENT." THE NAME CAN BE DIFFERENT IF DESIRED.
2. ENTER THE **CHANNEL** AND **AUTHENTICATION CREDENTIALS** FOR THE **SSID** OF THE SECONDARY WIRELESS ROUTER.
3. UNDER **NETWORK > INTERFACES**, CREATE A NEW ENTRY NAMED "WiFiASWAN."
4. SET THE **ZONE** FOR THE NEW INTERFACE TO **EXTERNAL**.
5. SET THE **DEVICE** FOR THE NEW INTERFACE TO **WLAN CLIENT: TESTCLIENT**
6. UNDER **IPv4**, SET THE **INTERFACETYPE** TO **DHCP ADDRESS**.
NOTE: THIS WILL TRIGGER THE 6350-SR TO OBTAIN A DHCP CONNECTION TO THE SECONDARY WIRELESS ROUTER'S SSID NETWORK.
7. CLICK **SAVE**.



The screenshot displays the configuration page for 'Wireless LAN'. Under the 'Client mode connections' section, a new entry named 'testclient' is visible. The configuration for 'testclient' includes:

- Enable:** Checked (indicated by a checkmark icon).
- Channel:** Set to 'Automatic'.
- Beacon interval:** Set to '100'.
- Access points:** A collapsed section.
- Client mode connections:** A collapsed section.
- testclient configuration:**
 - Enable:** Checked.
 - SSID:** A required text field, currently empty.
 - Encryption:** Set to 'WPA2 Personal (PSK)'.
 - Pre-shared key:** A required text field, currently empty.
 - Show:** A checkbox to toggle the visibility of the pre-shared key.

Firewall Settings

BOTH THE 6350-SR AND 6355-SR CAN FUNCTION AS A STATEFUL FIREWALL. OPTIONS FOR THE SR-SERIES FIREWALL CONFIGURATION LEVERAGE TWO KEY SECURITY MEASURES:

PORT FORWARDING

REMOTE COMPUTERS CAN ACCESS APPLICATIONS OR SERVICES HOSTED ON A LOCAL NETWORK WITH THE ACCELERATED SR-SERIES ROUTER BY SETTING UP PORT FORWARDING. IT PROVIDES MAPPING INSTRUCTIONS THAT DIRECT INCOMING TRAFFIC TO THE PROPER DEVICE ON A LAN.

TO CONFIGURE PORT FORWARDING:

1. UNDER **FIREWALL > PORT FORWARDING**, CLICK THE **ADD** BUTTON.
2. SELECT THE RELEVANT **LAN INTERFACE**.
3. THE **IP VERSION** AND **PROTOCOL** CAN BE LEFT AT THEIR DEFAULT VALUES UNLESS CHANGES ARE REQUIRED BY THE REQUEST BEING SERVICED BY THIS PORT-FORWARDING CONFIGURATION.
4. SPECIFY THE PUBLIC-FACING **PORT** FOR REMOTE ACCESS.
5. IN THE "**To**" FIELDS, SPECIFY THE **PORT** AND **IP ADDRESS** ASSOCIATED WITH THE INTENDED DESTINATION DEVICE.
6. IF NECESSARY, EXPAND THE **ACCESS CONTROL LIST** TO CREATE A WHITE LIST THAT DETERMINES WHICH DEVICES ARE AUTHORIZED TO LEVERAGE THIS PARTICULAR FORWARDING ROUTE.

PACKET FILTERING

ENABLED BY DEFAULT, PACKET FILTERING WILL MONITOR TRAFFIC GOING TO AND FROM THE SR-SERIES ROUTER. THE PREDEFINED SETTINGS ARE INTENDED TO BLOCK UNAUTHORIZED INBOUND TRAFFIC WHILE PROVIDING AN UNRESTRICTED FLOW OF DATA FROM LAN TO WAN.

NOTE

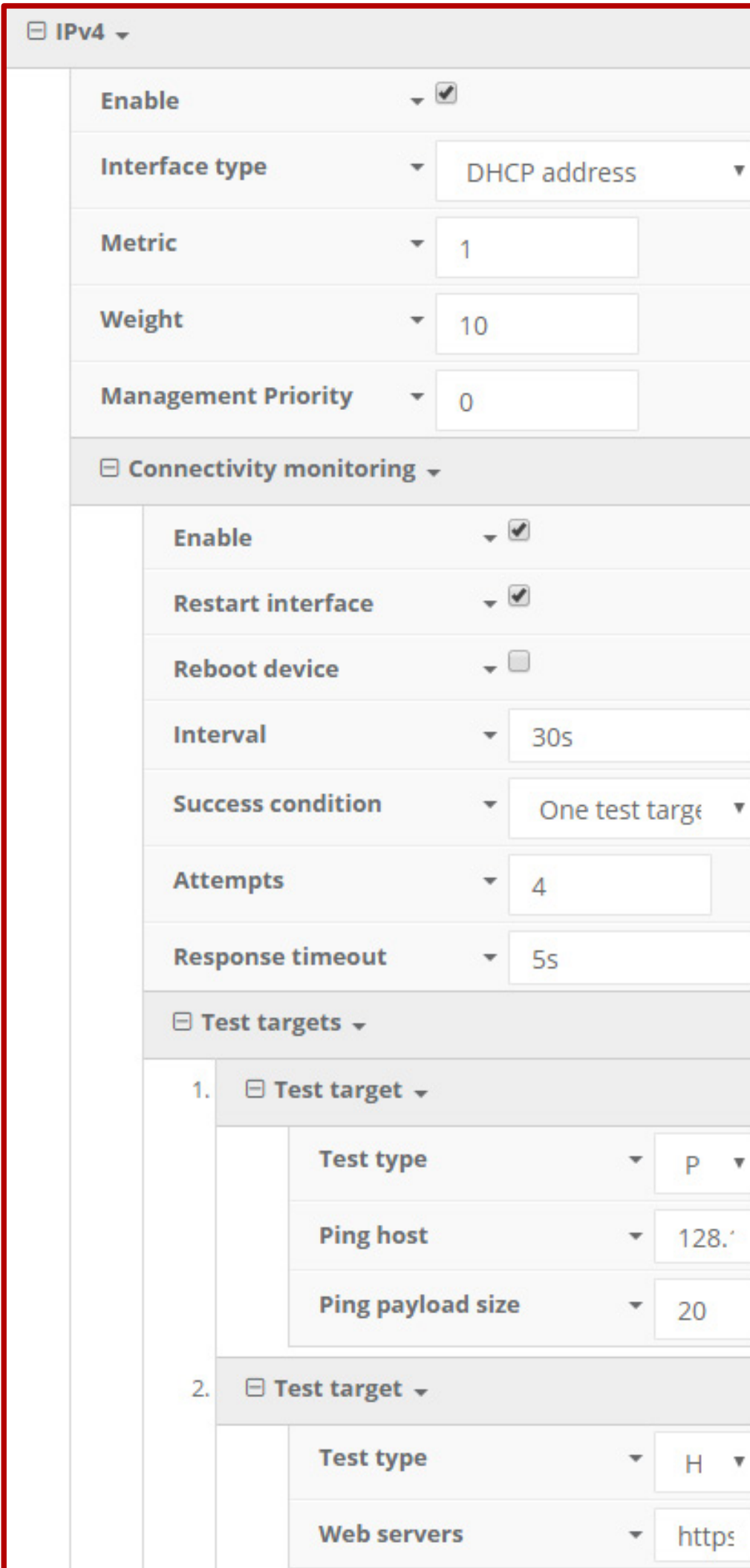
SELECT LAN UNLESS CUSTOM INTERFACES WERE CONFIGURED.

NOTE

BOTH INDIVIDUAL IP ADDRESSES AND ENTIRE ZONES MAY BE WHITE LISTED.

Dual-WAN Configurations

THE SR-SERIES ROUTER IS A DUAL-WAN DEVICE, MEANING IT HAS TWO INTERFACES CAPABLE OF PROVIDING INTERNET ACCESS BY DEFAULT -- ITS WAN ETHERNET PORT AND THE PLUG-IN CELLULAR MODULE -- THOUGH ADDITIONAL LAN PORTS MAY EVEN BE RECONFIGURED FOR SUPPLEMENTAL INTERNET ACCESS. ACTIVE WAN CONNECTIONS CAN PROVIDE BOTH FAILOVER AND LOAD BALANCING PER USER-DEFINED PARAMETERS.



The screenshot shows the IPv4 configuration page for a WAN interface. The 'Enable' checkbox is checked. The 'Interface type' is set to 'DHCP address'. The 'Metric' is set to 1, 'Weight' to 10, and 'Management Priority' to 0. Under 'Connectivity monitoring', 'Enable' is checked, 'Restart interface' is checked, and 'Reboot device' is unchecked. The 'Interval' is 30s, 'Success condition' is 'One test target', 'Attempts' is 4, and 'Response timeout' is 5s. There are two test targets: Target 1 is a Ping test to host 128.0.0.1 with a payload size of 20; Target 2 is an HTTP test to a web server at https://.

ATTEMPTS, THE SECONDARY CONNECTION WILL TAKE OVER INTERNET ACCESS FOR THE ROUTER. SIMILARLY, THE MONITORING TESTS TRIGGER THE RESTORATION OF THE PRIMARY WAN CONNECTION WHEN THEY DETECT THAT THE INTERFACE WITH A HIGHER METRIC HAS COME BACK UP.

NOTE

BOTH TESTS ARE SET VIA THE DEFAULT GROUP CONFIG IN ACCELERATED VIEW -- IT IS NOT BUILT INTO THE FIRMWARE.

DEVICES THAT HAVE NOT SYNCED WITH AVIEW WILL NOT HAVE THESE TESTS ENABLED BY DEFAULT.

FAILOVER

BY DEFAULT, THIS ALLOWS THE PLUG-IN MODULE TO SERVE AS A SECONDARY (BACKUP) WAN THAT BECOMES THE ACTIVE CONNECTION ONCE THE ETHERNET WAN PORT IS DETECTED AS OFFLINE. THE ROUTER THEN MONITORS THE OFFLINE CONNECTION TO SEE WHEN IT COMES BACK ONLINE, WHICH PROMPTS THE BACKUP INTERFACE TO ONCE AGAIN BECOME INACTIVE.

EACH INTERFACE HAS A METRIC VALUE ASSOCIATED WITH ITS IPv4 CONFIGURATION. THE EXAMPLE ON THE LEFT OF THIS PAGE IS ASSOCIATED WITH THE WAN INTERFACE, WHICH WILL TAKE PRIORITY OVER ALL OTHER INTERFACES BY DEFAULT (AS SEEN BY ITS METRIC VALUE OF "1").

CONNECTIVITY MONITORING

TO PROPERLY TRIGGER A FAILOVER (OR FAILBACK) SCENARIO, TEST PARAMETERS MUST BE DEFINED TO MONITOR THE PRIMARY CONNECTION. BOTH A PING AND HTTP TEST COME BUILT INTO THE SR'S WAN PORT CONFIGURATION BY DEFAULT. AFTER 4 FAILED

—))) CARRIER SMART SELECT™

BY DEFAULT, THE SR-SERIES' PLUG-IN MODULE IS SETUP FOR AUTOMATIC SIM SELECTION. MEANING, IF THE ROUTER IS UNABLE TO CONNECT WITH THE SIM IN SLOT 1, AFTER A SPECIFIED NUMBER OF FAILURES (5 BY DEFAULT) THE SR WILL AUTOMATICALLY SWITCH TO USE THE SIM IN SLOT 2.

FOR THIS SETUP, YOU WILL NEED TWO SIM CARDS ENABLED, PROVISIONED, AND INSTALLED IN THE PLUG-IN MODEM'S SIM SLOTS. THE TWO CARDS CAN BE FROM THE SAME CARRIER OR FROM DIFFERENT CARRIERS.

LOAD BALANCING

TRAFFIC CAN BE BALANCED BETWEEN THE ETHERNET AND CELLULAR WAN INTERFACES. THIS FEATURE, OFTEN REFERRED TO AS "LOAD BALANCING," USES AN INTERFACE'S WEIGHT VALUE -- THIS IS DEFINED UNDER THE IPv4 EXPANDABLE MENU. THE INTERFACES BEING BALANCED MUST SHARE THE SAME METRIC VALUE.

IT IS IMPORTANT TO NOTE THAT THE TWO SIM SLOTS CANNOT BE LEVERAGED SIMULTANEOUSLY FOR LOAD BALANCING; THE LOAD MUST BE SHARED BETWEEN THE CELLULAR MODEM AND THE WIRELINE INTERNET CONNECTION. THE WEIGHT OF AN INTERFACE ESTABLISHES ITS PROPORTIONAL CONTRIBUTION RELATIVE TO THE WEIGHT OF ITS COMPLIMENTARY INTERFACE.

FOR EXAMPLE, SETTING THE ETHERNET WAN TO A WEIGHT OF "20" AND THE CELLULAR WAN TO A WEIGHT OF "5" ESTABLISHES A 4:1 RATIO -- THE ETHERNET INTERFACE WILL HANDLE 4X THE AMOUNT OF DATA WITH THIS CONFIGURATION.

—))) NOTE

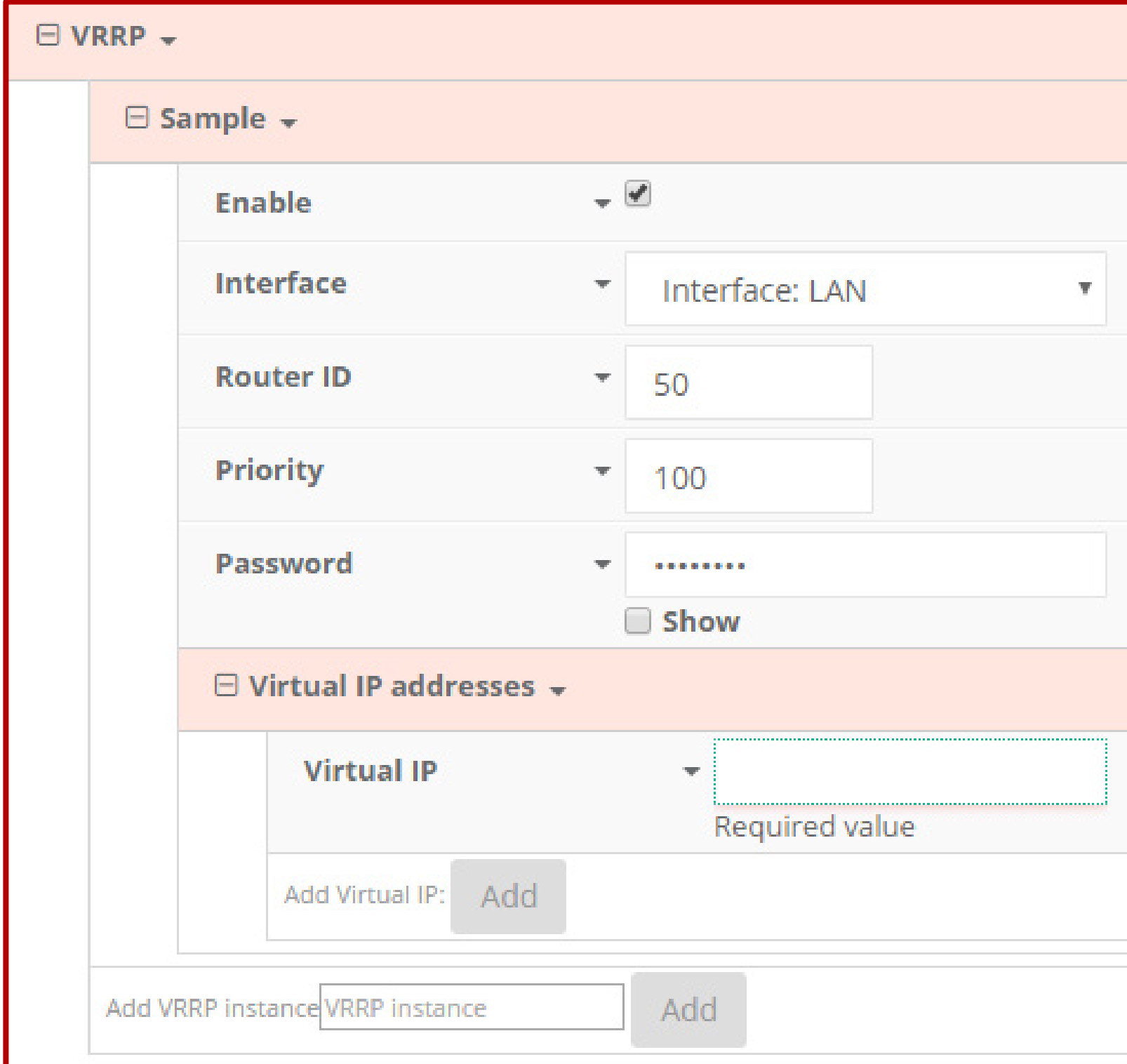
IF ONE OF THE SIM CARDS REQUIRES A CUSTOM OR UNIQUE APN, YOU WILL NEED TO ADD THIS APN INTO THE ROUTER'S CONFIG, UNDER THE MODEM > APN OPTION.

Virtual Router Redundancy Protocol

VRRP IS A NETWORKING PROTOCOL USED TO CONFIGURE DEVICES AS A "HOT STANDBY" FOR A PRIMARY ROUTER, WHERE A BACKUP DEVICE WILL ONLY START ROUTING TRAFFIC AFTER THE NETWORK DETECTS THAT THE PRIMARY DEVICE IS OFFLINE (USING PARAMETERS SET BY VRRP).

TO LINK MULTIPLE DEVICES TOGETHER, EACH MUST BE CONFIGURED WITH THE SAME ROUTER ID WITHIN ACCELERATED VIEW. REFER TO THE FOLLOWING STEP-BY-STEP GUIDANCE FOR MORE INFORMATION:

1. EXPAND **NETWORK > VRRP**.
2. IN THE **ADD VRRP** INSTANCE TEXT FIELD, ENTER A NAME FOR THE ENTRY.
3. ENABLE THE INSTANCE.
4. SPECIFY AN **INTERFACE** -- THIS WILL TYPICALLY BE SET TO **LAN**, MEANING ALL FOUR LAN PORTS.
5. SET THE **ROUTER ID** TO MATCH THE NUMBER DESIGNATED FOR THIS INSTANCE.
6. **PRIORITY** ESTABLISHES THE ORDER IN WHICH BACKUP DEVICES STEP IN FOR OFFLINE ROUTERS.
7. THE **PASSWORD** IS A SHARED STRING OF CHARACTERS THAT MUST BE ENTERED FOR EACH DEVICE TO AUTHORIZE ITS INTEGRATION INTO THE **VRRP** INSTANCE.



NOTE

REFER TO THE **INTERFACE CREATION** SECTION OF THIS USER MANUAL FOR MORE INFO ON CUSTOM INTERFACES.

NOTE

A HIGHER NUMBER ESTABLISHES HIGHER PRIORITY.

Troubleshooting

RESETTING YOUR DEVICE —))

TO RESET THE DEVICE TO FACTORY DEFAULT SETTINGS, PRESS AND RELEASE THE **RESET/ERASE** SWITCH ONCE ON THE REAR OF THE DEVICE WHEN THE DEVICE IS SWITCHED ON. THIS WILL ERASE ALL DEVICE-SPECIFIC SETTINGS TO THEIR ORIGINAL STATE, AND IT WILL AUTOMATICALLY REBOOT.

OUT-OF-BAND SMS COMMANDS —))

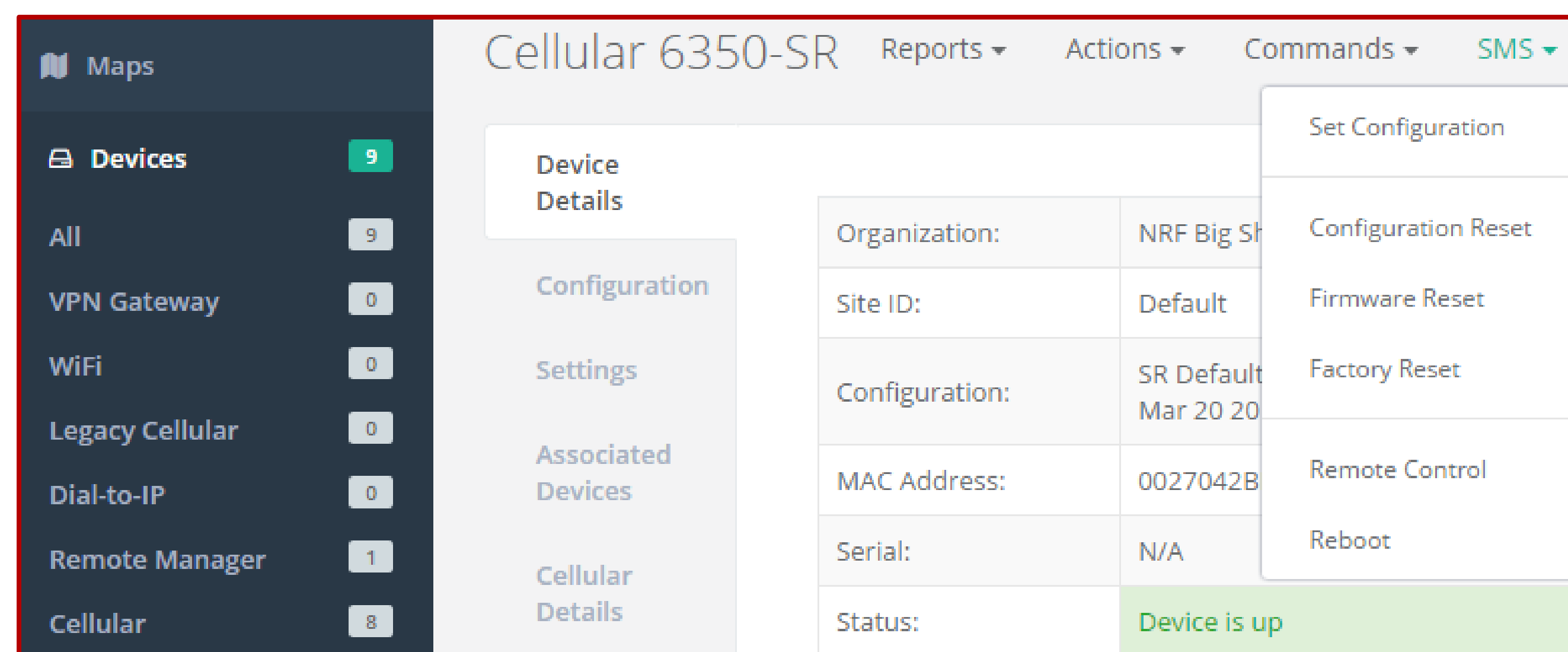
A SET OF EMERGENCY REMOTE COMMANDS CAN BE SENT VIA **SMS** TO THE DEVICE TO PROVIDE **OUT-OF-BAND (OOB)** RECOVERY FOR THE DEVICE. THESE **SMS** COMMANDS ALLOW YOU TO PERFORM ACTIONS SUCH AS FACTORY RESETS, REBOOT THE DEVICE, AND RESTORE TO THE BACKUP FIRMWARE PARTITION, ALL WITHOUT REQUIRING THE DEVICE TO HAVE AN ACTIVE **IP (WAN)** CONNECTION. SIMILAR TO THE STANDARD REMOTE COMMANDS, THESE CAN BE USED TO PROVIDE CONTROL OVER THE DEVICE WITHOUT ANY ON-SITE 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 MANUAL**.

—)) **NOTE**

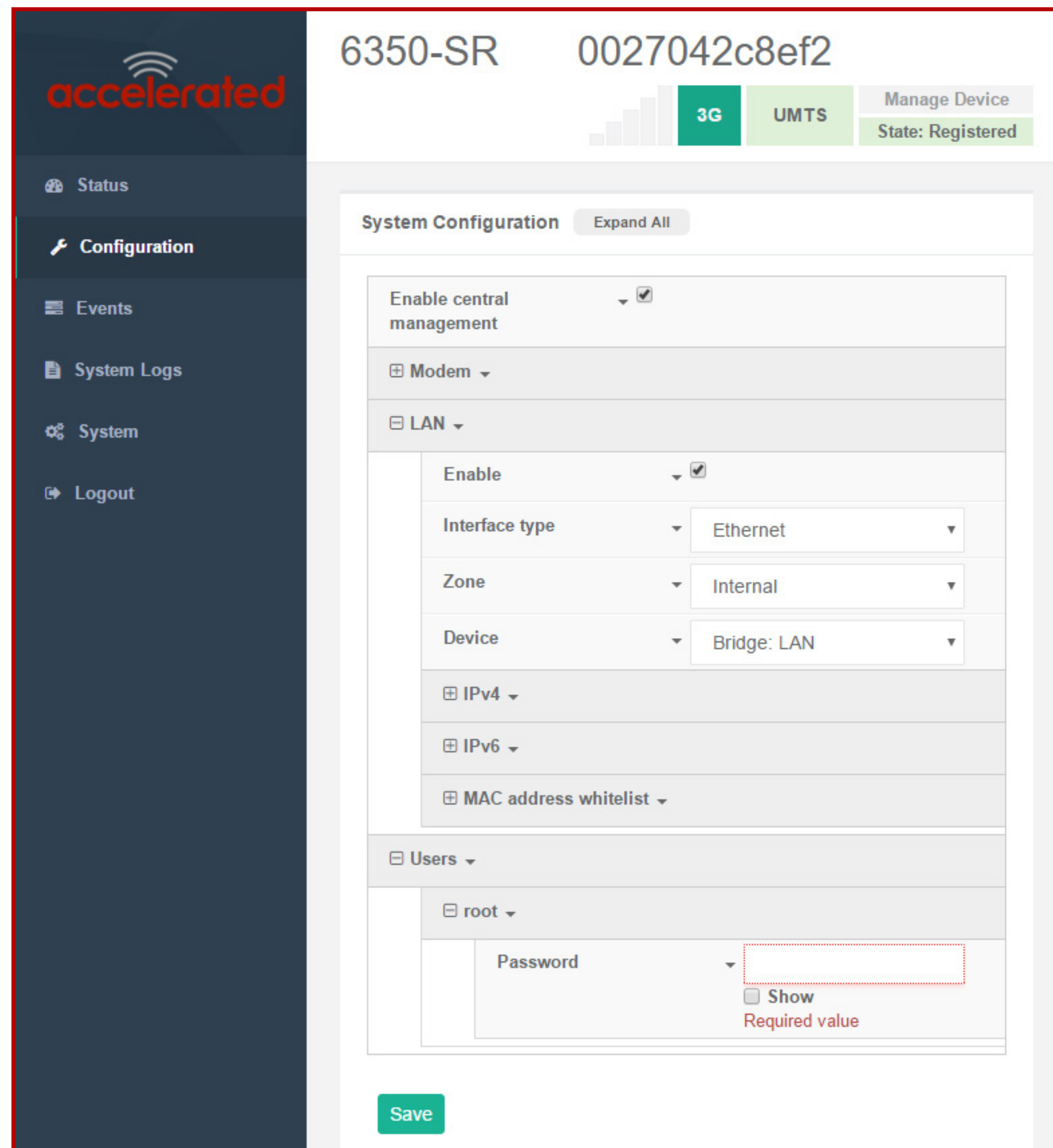
WHILE THE SETTINGS ARE RESET, THE DEVICE'S FIRMWARE VERSION REMAINS THE SAME.

—)) **NOTE**

THIS FEATURE IS ONLY AVAILABLE VIA ACCELERATED VIEW.



Local Device Management



NOTE

PASSWORDS ARE CASE SENSITIVE. (THE DEFAULT CREDENTIALS ARE ALL LOWER CASE.)

NOTE: IT IS RECOMMENDED THAT ACCELERATED VIEW™ CENTRALLY MANAGES THE SR-SERIES ROUTER.

IF YOU ARE NOT USING THE WEB-BASED PORTAL, YOU MUST MANAGE AND CONFIGURE YOUR DEVICE VIA THE LOCAL INTERFACE.

CONNECT TO THE ROUTER USING ITS GATEWAY IP ADDRESS: 192.168.0.1 BY DEFAULT.

USERNAME: ROOT 


PASSWORD: DEFAULT

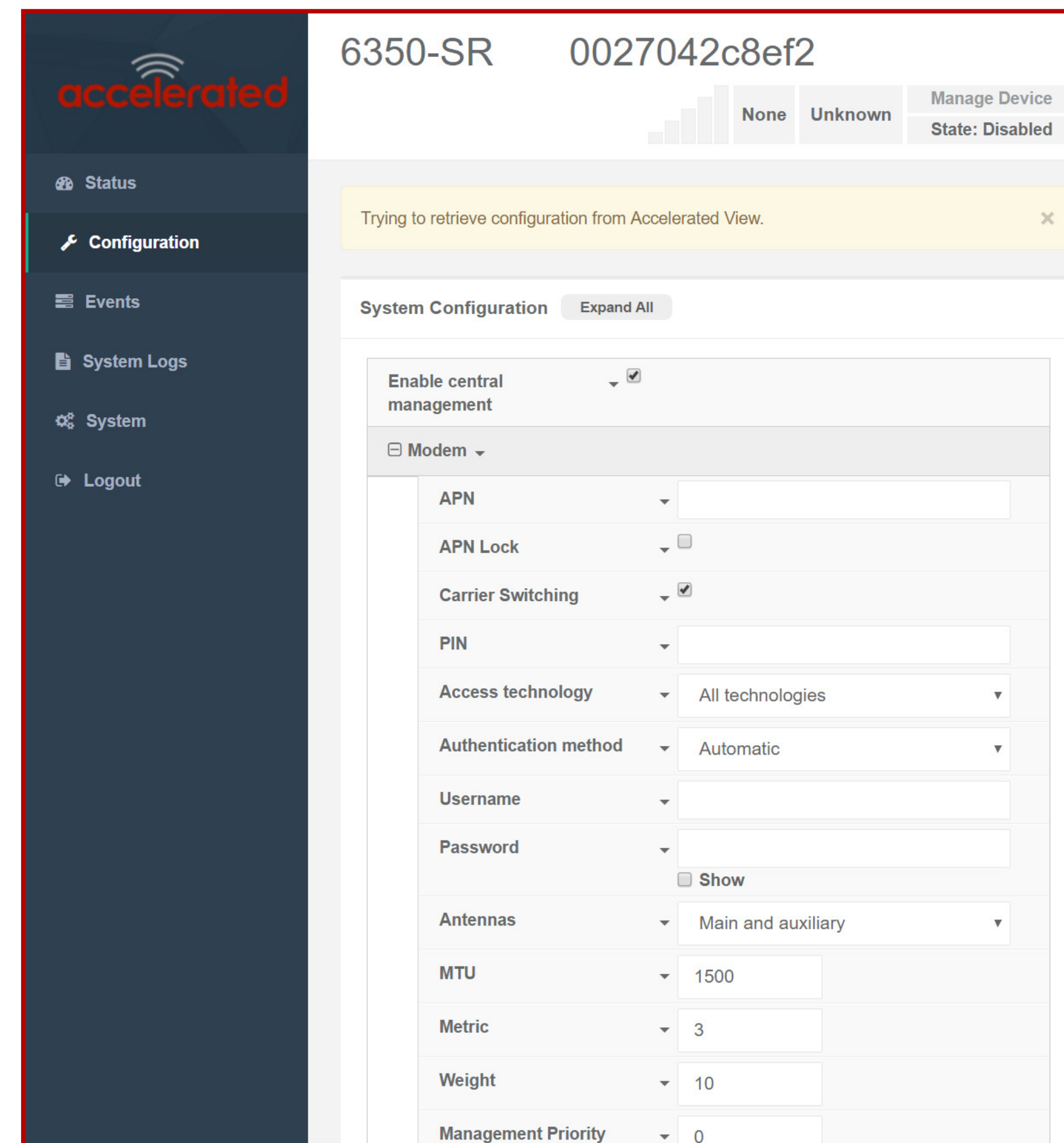
THE LOCAL MANAGEMENT PORTAL OFFERS THE SAME CONFIGURATION OPTIONS AS ACCELERATED VIEW, ALTHOUGH CHANGES MADE HERE WILL NOT SYNC WITH THE CLOUD.

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, IT WILL NEED TO BE MANAGED LOCALLY BEFORE REMOTE CONFIGURATION WILL BE POSSIBLE.

TO DO SO:

1. CONNECT TO THE DEVICE'S LOCAL UI BY NAVIGATING TO ITS DEFAULT GATEWAY ADDRESS IN A WEB BROWSER. 
2. FROM THE **CONFIGURATION** TAB, ENTER THE NAME OF THE **APN** THAT SHOULD BE ASSOCIATED WITH THIS DEVICE.
3. **OPTIONAL:** IF THE CUSTOM APN REQUIRES A SPECIFIC **USERNAME** AND **PASSWORD**, PLEASE INPUT THOSE INTO THE CORRESPONDING FIELDS.
4. CLICK THE **SAVE** BUTTON TO FINALIZE ANY CHANGES.



NOTE

PLEASE REFER TO THE PREVIOUS PAGE FOR MORE INFORMATION.

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END USER MUST REQUEST AN RMA NUMBER EITHER FROM ACCELERATED SUPPORT OR BY SENDING AN E-MAIL TO RMA@ACCELERATED.COM WITH THE FOLLOWING INFORMATION:

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 COMMERCIALY REASONABLE EFFORTS TO SHIP A REPLACEMENT DEVICE WITHIN TEN (10) WORKING DAYS AFTER RECEIPT OF THE PRODUCT. ACTUAL DELIVERY TIMES MAY VARY DEPENDING

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+1(813)699-0295 || SUPPORT@ACCELERATED.COM

REGULAR HELP DESK HOURS ARE 8:00AM TO 8:00PM ET (GMT -5)
24x7 PREMIUM SUPPORT PACKAGES AVAILABLE