

501 SE Columbia Shores Boulevard, Suite 500 Vancouver, Washington 98661 USA +1 360 859 1780 / smartrg.com

/ Gateway User Manual

Model: SR905ac

Release: 2.2

Software Version: 10.8.8.1

January 2021



Table of Contents



	_
	4
Purpose & Scope	4
	4
	4
Copyright and Trademarks	4
Disclaimer	4
	5
WEEE Statement	5
Importantes Mesures de Sécurité	6
DEEE Statement	6
	7
LED Indicators	7
Connections	8
LAN	8
	8
	8
	8
	8
	9
WiFi Button (2.4 GHz Band)	9
	9
	9
Installing your SR905ac Gateway1	0
Logging in to the SR905ac Interface	
User Preferences	
Saving Your Changes1	
Dashboard	
Network	
Status	
Ethernet WAN1	
Internet	
DHCP for IPv4 WANs1	
Static Address for IPv4 WANs	8
PPPoE for IPv4 WANs1	
DHCPv6 for IPv6 WANs	
Static Address for IPv6 WANs	
IPTV	
Voice	
Management2	
Cross-Connect2	
SFP	
LAN Network	
DHCP Server2	
Defining a Custom DNS Server	1
Defining a Static DHCP IP Address	
DHCP Clients	
Ethernet Ports	
Guest Network3	
DHCP Server	
Defining a Static DHCP IP Address	
DHCP Clients	
Video Network	
Static	
DHCP	

DHCP Server	42
Defining a Static DHCP IP Address	
DHCP Clients	
Multicast	
Video Analyzer	
Routing	
Static Routes	4/
DNS	
Advanced	
Downstream QoS	
Firewall	
Router Access	
Rules	
DMZ	
Port Forwarding	
WiFi	
Status	61
Scan	61
Radios	
Band Steering	64
Networks	64
Mesh	66
Clients	
MAC Filtering	
Advanced	
Devices	
Intellifi Devices	
	//
Accessing Device Information	72
Accessing Device Information	
Viewing Device Details	72
Viewing Device Details	72 73
Viewing Device Details Viewing Connection Details Pausing Internet Access	72 73 74
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices	72 73 74 74
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups	72 73 74 74 76
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule	72 73 74 74 76 80
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services	72 73 74 74 74 76 80 80 84
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP	72 73 74 74 76 80 84 84
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA	72 73 74 76 80 84 84 85
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration	72 73 74 74 76 80 84 84 85 85
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP	72 73 74 74 74 76 80 84 84 85 85 85 87
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts	
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS	72 73 74 76 80 84 84 85 85 85 85 87 89 90
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage	72 73 74 76 80 84 84 85 85 85 85 87 89 90 92
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing	
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter	72 73 74 76 80 84 85 85 85 85 87 89 90 92 92 94
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin	72 73 74 76 80 84 85 85 85 85 87 89 90 92 92 92 94 94
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update	72 73 74 76 80 84 85 85 85 85 85 87 89 90 92 92 92 94 96
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration	72 73 74 74 74 76 80 84 84 85 85 85 85 87 89 90 92 92 92 92 92 92 92 92
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update	72 73 74 74 74 76 80 84 84 85 85 85 85 87 89 90 92 92 92 92 92 92 92 92
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management Passwords	
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management	
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management Passwords Net Tools	72 73 74 76 80 84 85 85 85 87 89 90 92 92 94 96 97 99 99 91 91 96
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management Passwords Net Tools Event Log	72 73 74 76 80 84 84 85 85 87 89 90 92 92 94 96 97 99 99 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management Passwords Net Tools Event Log Configuring Log Settings	72 73 74 76 80 84 84 85 85 87 90 92 92 94 96 97 99 99 91 99 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91 91
Viewing Device Details Viewing Connection Details Pausing Internet Access Connected Devices Device Groups Access Schedule Services UPNP DLNA TR-069 Configuration SNMP Hosts DDNS Cloud Storage File Sharing Content Filter Admin Update Configuration Router Management Passwords Net Tools Event Log	72 73 74 76 80 84 85 85 85 87 90 92 92 94 96 97 99 99 91 99 91 91 91 91 91

SmartRG Inc., an Adtran company. Proprietary and Confidential. All Rights Reserved. © 2020

Table of Contents



Reboot	107
Logging out	
Appendix: Compliance Statements	
FCC Interference Statement	
FCC Radiation Exposure Statement	110
5GHz	110
Revision History	111





Welcome!

Thank you for purchasing this SmartRG product.

SmartRG offers solutions that simplify the complex Internet ecosystem. Our solutions include hardware, software, applications, enhanced network insights, and security delivered via a future-proof operating system. Based in the USA, SmartRG provides local, proactive software development and customer support. We proudly offer the best, most innovative broadband gateways available. Learn more at www.SmartRG.com.

Purpose & Scope

This User Manual provides SmartRG customers with installation, configuration and monitoring information for their SR905ac gateway.

Intended Audience

The information in this document is intended for Network Architects, NOC Administrators, Field Service Technicians and other networking professionals responsible for deploying and managing broadband access networks. Readers of this manual are assumed to have a basic understanding of computer operating systems, networking concepts and telecommunications.

Getting Assistance

The ADTRAN Support Community provides how-to information, forums, documentation and software downloads.

- Subscribers: If you require further help with this product, please contact your service provider.
- Service providers: if you require further help with this product, please open a support request.

Copyright and Trademarks

Copyright 2020 by SmartRG, Inc. an ADTRAN company. Published by SmartRG, Inc. All rights reserved.

The contents of this publication may not be reproduced in any part or as a whole, transcribed, stored in a retrieval system, translated into any language, or transmitted in any form or by any means, electronic, mechanical, magnetic, optical, chemical, photocopying, manual, or otherwise, without the prior written permission of SmartRG, Inc.

Disclaimer

SmartRG does not assume any liability arising out of the application or use of any products, or software described herein. Neither does it convey any license under its patent rights nor patent rights of others. SmartRG further reserves the right to make changes to any products described herein without notice. This publication is subject to change without notice.

Any trademarks mentioned in this publication are used for identification purposes only and may be properties of their respective owners.



Important Safety Instructions

When using your telecommunications equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Use only the power adaptor that is included with the device.
- 2. Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 3. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 4. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 5. CAUTION To Reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

WEEE Statement

X

The WEEE logo (shown at the left) appears on the product to indicate that this product must not be disposed of or dumped with your other household wastes. You are required to dispose of your electronic or electrical waste equipment by delivering it to the specified collection point for recycling of such hazardous waste.





Importantes Mesures de Sécurité

tre prises pendant l'utilisation de matérial télécommunications afin de réduire les risques d'incendie, de choc électrique Certaines mesures de sécurité doivent et de blessures. En voici quelquesunes:

- 1. Utilisez uniquement l'adaptateur secteur fourni avec l'appareil.
- 2. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
- 3. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
- 4. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
- 5. ATTENTION Pour réduire les risques d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG au de section supérleure.

le socle de prise de courant doit être installé à proximité du matériel et doit être aisément accessible.

DEEE Statement

X

Le logo DEEE (illustré à gauche) apparaît sur le produit pour indiquer que ce produit ne doit pas être jeté ou jeté avec vos autres déchets ménagers. Vous êtes tenu de vous débarrasser de vos déchets d'équipements électroniques ou électriques en les livrant au point de collecte spécifié pour le recyclage de ces déchets dangereux.





Getting Familiar with your Gateway

This section explains the SR905ac gateway's lights, ports, and buttons.

LED Indicators

O White

Your SR905ac gateway has several status indicators (LEDs) on its top which are described below.



Legend:

White blinking • Green

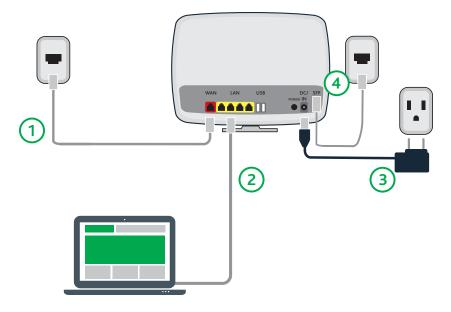
🔅 Green blinking 🛛 🖲 Red

LED	Action	Explanation
Power	@ 0	Device in CFE mode Device powered on and ready for use
Internet	(2) •	Data being transferred Internet authentication / connection has failed
Lan 1-4	0 ©	LAN Ethernet connected (at 1000 BASE-T) Data being transferred (at 1000 BASE-T)
	• ©	LAN Ethernet connected (at 10/100BASE-T) Data being transferred (at 10/100BASE-T)
WAN	0	Device online (at 1000 BASE-T) Device online (at 10/100 BASE-T)
	0 ©	WAN Ethernet connected (at 1000 BASE-T) Data being transferred (at 1000 BASE-T)
	• ©	WAN Ethernet connected (at 10/100BASE-T) Data being transferred (at 10/100BASE-T)
2.4 GHz 5 GHz	0 ©	WiFi enabled Data being transferred
(়ে ্রু•)) (locked WiFi / WPS)	0 ©	WPS enabled Data being transferred
SS 1 & 2	0 ©	USB 3.0 device connected Data being transferred
SFP	0 ©	SFP (fiber optic) connected Data being transferred



Connections

The SR905ac's exterior ports are shown in the following cabling diagram and explained below.



LAN

The four yellow RJ45 Ethernet ports located on the back of the gateway (labelled LAN1, LAN2, LAN3, LAN4) are used to connect client devices such as computers and printers.

WAN

The red RJ45 port labeled WAN is used to connect the SR905ac gateway to another network device using a RJ45/Ethernet cable.

USB 1 & 2

Two USB ports (two 3.0 ports on back) are used to connect USB storage devices to the gateway for transferring data. They also provide +5 VDC for charging other devices.

POWER

- Use ONLY the dedicated power supply included with your gateway (3-amp 12 v). Intended for indoor use only.
- Do NOT open the device. Opening or removing covers can expose dangerous high voltage points or other risks. ONLY qualified service personnel can service the device. Please contact your vendor for further information.

External Buttons

The SR905ac gateway provides push-button controls on its exterior for critical features. These buttons provide a convenient means to trigger WPS mode, toggle the WiFi radios on and off, or reset the gateway. The button functions are described below.



WPS Button (5 GHz Band)

WiFi Protected Setup^M (WPS) is a standard means for creating secure connections between the gateway and various wireless client devices. It is designed to simplify the pairing process between devices. This button is located on the left side of the gateway.

Press this button for 1-3 seconds, the **5 GHz** LED starts to flash. If no client pairs with the gateway after 2 minutes, the **5 GHz** LED turns off. When the gateway pairs successfully with a client, the **5 GHz** LED glows solid for 5 minutes and then turns off.

WiFi Button (2.4 GHz Band)

The WiFi button toggles the 2.4 GHz WiFi radio on and off. This button is located on the left side of the gateway. Look at the 2.4 GHz LED indicator to determine the current state of the WiFi radio.

To activate the radio, press and hold the WiFi button for 3-5 seconds then release. Expect a 1-3 second delay before the 2.4 GHz LED turns on. The WiFi radio is now on.

To deactivate the radio, press and hold the WiFi button for 3-5 seconds then release. Expect a 1-3 second delay before the 2.4 GHz LED turns off. The WiFi radio is now off.

On/Off Button

The On/Off button turns the gateway on and off. This button is located on the left side of the gateway.

Reset Button

Warning: Do not press the Reset button unless you want to clear the current settings.

The **Reset** button returns the gateway to its default settings. This button is in a small circular hole in the back of the gateway with the actual button mounted behind the surface. This style of push button prevents the gateway from being inadvertently reset during handling.

To restore the current default settings, insert a thin wire (such as a paper clip) into the hole, press for 1 second, then release the button. The gateway reboots and returns to the current defaults.

To return the gateway to factory default settings, press the **Reset** button until the LEDs flash red and orange. The gateway reboots and returns to the default settings applied in the factory. This process may take a few minutes.





Installing your SR905ac Gateway

- 1. Connect the gateway to incoming services:
 - For Ethernet services, connect one end of an Ethernet cable to the **WAN** port on the gateway and connect the other end of the cable to the wall jack installed by your provider.
 - For fiber services:
 - a. Slide open the small door at the right end of the gateway's back.
 - b. Insert the SFP transceiver (included with the gateway) into the port.
 - c. Connect one end of the fiber cable to the SFP transceiver and connect the other end of the cable to the wall jack installed by your provider.
- 2. Connect a LAN port on the gateway to your PC using an Ethernet cable.
- 3. Plug the power adapter to the wall outlet and then connect the other end of it to the **Power** port of the gateway.
- 4. Turn on the unit by pressing the **Power** button on the side of the gateway.

The gateway is now automatically being set up to connect to the Internet. This process may take a few minutes to complete before you can begin using your Internet applications (browser, email, etc.).

If connection to the Internet is unsuccessful, verify that all cable connections are in place and the gateway's power is turned on.



Logging in to the SR905ac Interface

To manually configure the SR905ac gateway, you must access the gateway's Web-based UI.

- 1. Configure your computer's IP interface to acquire an IP address automatically using DHCP.
- 2. Open a browser and enter the gateway's default address: http://192.168.1.1 in the address bar. The sign-in page appears.

SMART/RG [®]
Please enter sign in credentials
🚨 admin
a password
Sign in
Forgot password?

- 3. Enter the default username and password.
 - For the administrator user, these are "admin" and "admin".
 - For the support user, these are "support" and the last three octets of the MAC address. The MAC address is located on a label on the back of the gateway. Make sure to enter the letters in all caps and include the separating colons (e.g., AA:BB:CC).

To review the end user license agreement, click the License Agreement link at the bottom right corner of the browser window. The agreement appears in a separate tab.

Note: If you have forgotten the password, click **Forgot password**? and follow the instructions to reset the gateway to the factory defaults. Then, enter the credentials provided with the gateway when it first arrived.

4. Click Sign In. The Dashboard page appears, showing data about your system.



User Preferences

The top of the screen displays various options that are always present:

- To the right is a Search box which returns a list of pages/gateway features that match the search terms entered.
- Next is the Dark Mode icon (
). Click to engage an alternate color scheme for the UI. The icon changes to the Light Mode icon (
). Click it to return to the original color scheme.
- Next is the Language icon((). Click to select the preferred interface language from the list.
- The far right corner displays the username currently logged in (typically "Admin"). Click the name to reveal a list of additional preferences.



The preferences under the **User Profile** link to options also found under **Admin** in the left menu.

- Settings: Save or load a router configuration file. See instructions here.
- Passwords: Change passwords for gateway access. See instructions here.
- Reboot: Initiate a reboot of the gateway. <u>See instructions</u> here.
- Logout: Ends the current session with the gateway.

The page footers display the WAN IP address and firmware version. Mouse over the labels to view the details.



Saving Your Changes

When you change settings, the Pending changes dialog box appears at the top of the page.



Changes made on a page must be applied before you can navigate to a different page.

The circled number shown at left indicates the quantity of changes waiting to be applied. To view a list of your unsaved changes, click the circled number. The Unsaved Changes pop-up window appears.

TYPE	CONFIG	SECTION	OPTION	OLD VALUE	NEW VALUE	ACTIONS
SET	iptv	cfg0467f2	fastleave	1	0	Ĩ

To undo a change in the list, click the **trash can** icon in the far right column for the line item to be cancelled. If you remove all of the changes from the change list, the Unsaved Changes window closes and you can proceed to another page.



Dashboard

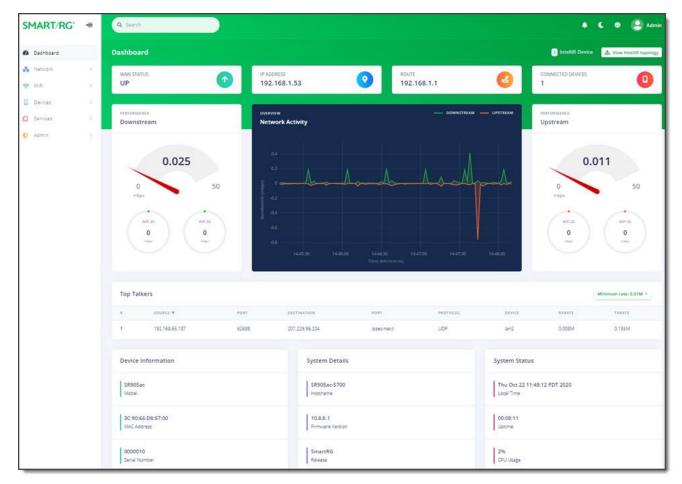
When you log in to the gateway, the following Dashboard landing page appears. On this page, you can view the IP address, route, number of connected devices, WAN and WiFi traffic, device and system information, system status, and memory statistics. You can also reach this page by clicking **Dashboard** in the left menu.

At the top right of the page, you will find the number of Intellifi devices connected to your gateway plus the View Intellifi topology button that will take you to the Intellifi Devices page.

A list of top talkers appears below the WiFi information.

- To sort this table, click on any of the headings.
- The Minimum rate field appears at the top right of the Top Talkers frame. Select a different transmission rate from the dropdown list if desired. Options are None, 0.01M, 0.1M, 1M, 10M, and 100M. The default is 0.01M.

At the bottom of the page are the WAN IP address and the firmware version. Mouse over the labels to view the information.





Network

In this section, you can view and configure information about your gateway connections.

Status

On this page, you can view the status and detailed information for gateway connections.

In the left menu, click **Network** > **Status**. The following page appears.

SMART/RG	=	Q Search							🔺 🤇 🕀 🧕 Adm
Dashboard		Network	Status						View charts 3 Restart Network
Network	*	National							
Status		Network	< Interfaces						
Ethernet WAN	5	NAME	STATUS	PROTOCOL	IPV4 ADDRESS/MASK	IPV6 ADDRESS/MASK		DEFAULT ROUTE	IPV6 PREFIX
LAN Network Guest Network	3	WAN	UP	DHCP	192.168.1.53/24	2603:9000:d804:7055:3e9	0:66#fed8:5700/64	192.168.1.1. fe80::9691:7fff.fe78:c348	N/A
Video Network Multicast	3	LAN	UP	STATIC	192.168.65.1/24	fd87:896b:d098:0:159d:12	9e:Sbd1:b51b/64	N/A	fd87:896b:d098::/64
Routing		GUEST	UP	STATIC	192.168.2.1/24	N/A		N/A	N/A
Firewall	38								
WIFI	>	Interfac	e Statistics						
Devices	3	NAME		LINK STATI		SPEED	TX PACKETS	RX PACKI	TS
Services	5	WAN		UP		1000F	4798	9730	
🖸 Admin	2	LAN1		DOWN		TOH	0	0	
		LAN2		UP		1000F	19593	15205	
		LAN3		DOWN		TOH	0	0	
		LAN4		DOWN		10H	0	0	
		WIFI2G		UP		٥	٥	0	
		WIFISG		UP		0	٥	0	
		Domain	Name Servers	(DNS)					
		ADDRESS 1							
		192.168.1.1	1						

To restart your network, click the **Restart Network** button near the upper right. A Warning message appears. Click **Ok**, **restart** to proceed. The **STATUS** column for WAN may briefly change to **PENDING** and then back to the previous status.

To view detailed transmission data for the individual interfaces, click the **View Charts** button near the upper-right. The netdata window opens in a new tab, showing information about the overall SR905ac system, memory, CPUs, firewall, IPv4 networking, etc. Use the navigation menu at right to select the statistics that you want to view.



Ethernet WAN

On this page, you can configure WAN settings for connecting to the Internet via Ethernet.

To access this page, click Network > Ethernet WAN in the left menu. The following page appears, showing the Internet settings.

SMART/RG°	=	Q Search
🙆 Dashboard		Ethernet WAN
📸 Network	*	
Status		WAN Services
Ethernet WAN	~	
SFP		Internet IPTV Voice Management Cross-Connect
LAN Network	>	
Guest Network	>	
Video Network	>	Internet Service
Routing	2	internet Service
Firewall	Ś	
		Enabled
🗢 WiFi	>	
Devices	>	Tag mode Untagged
G Services	>	MAC Address 3C:90:66:D8:57:00
🔨 Admin	>	
		IPv4 Configuration
		Configuration method DHCP -
		Hostname SR905ac-5700
		Create Default Route
		Allow DNS server list override
		IPv6 Configuration
		Configuration method DHCPv6 ~
		DHCPv6 Client Mode Autoconfig.
		Request Prefix Length Auto +
		Prefix Hint e.g. 1234
		Allow DNS server list override

By clicking the buttons across the top of the page, you can select and configure the following WAN services. Click the links below to see the instructions for each service:

	<u>Internet</u>	<u>IPTV</u>	Voice	Management	Cross-Connect
--	-----------------	-------------	-------	------------	---------------



Internet

- 1. When you select Network > Ethernet WAN in the left menu, the Ethernet WAN page appears with the Internet settings displayed.
- 2. By default, the Internet Service is enabled. To disable the Internet feature, click the slide button to the right of Enabled.
- 3. Configure the tagging options:
 - a. In the Tag mode field, select the type of tagging that should be performed. Options are Untagged, Tagged, and DQTagged. The default is Untagged.
 - b. If Tagged or DQTagged is selected, the VLAN and P-bit fields appear. Enter the ID of the appropriate VLAN. Valid values are 1 4079. The default is 2. Enter the P-bit type. Options are 0 7. The default is 0.
 - c. If **DQTagged** is selected, the **CVID** field also appears. Enter the Customer VLAN ID or the first in a range of CVIDs that will be accepted and mapped to the specified WAN. Valid values are **1 4062**. The default is **0**.
- 4. (*Optional*) In the MAC Address field, enter the MAC address to be used with this configuration. By default, this value is the gateway MAC address.
- 5. Complete the fields for IPv4 Configuration and IPv6 Configuration sections as they apply to your environment, using the information provided below.
 - a. In the Configuration method field, select the appropriate method for your WAN.

Options for IPv4 WANs are DHCP, Static Address, and PPPoE. The default is DHCP.

Options for IPv6 WANs are DHCPv6, Static Address, and None. The default is DHCPv6.

- b. Complete the remaining fields as instructed below for each option:
 - "DHCP for IPv4 WANs" (IPoE)
 - "Static Address for IPv4 WANs"
 - "PPPoE for IPv4 WANs"
 - "DHCPv6 for IPv6 WANs"
 - "Static Address for IPv6 WANs"
- 6. Click the Apply button in the Pending changes... dialog box to save your settings.

DHCP for IPv4 WANs

The following fields appear when **DHCP** is selected as the configuration method. This method is the default for IPv4 WANs.

IPv4 Configuration	
Configuration method	DHCP
Hostname	SR905ac-5700
Create Default Route	-
Allow DNS server list override	



- 1. To use a different host, enter the host name that you want to include in DHCP requests in the Hostname field.
- 2. To disable the default route for this WAN, click the slide button next to Create default route.
- 3. To allow override of the DNS server list, click the slide button next to Allow DNS server list override. To prevent override, click the slide button again.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Static Address for IPv4 WANs

The following fields appear when **Static Address** is selected as the configuration method.

IPv4 Configuration	
Configuration method	Static Address 🗸
IP Address	IPv4 Address
Subnet mask	Subnet Mask
Default route	Route
Create default route	

- 1. Complete the fields using the information in the table below.
- 2. To *disable* the default route for this WAN, click the slide button to the right of Create default route.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

The fields for this option are explained in the table below.

Field	Description
IP Address	Enter the IP address for IPv4 communications (such as 192.168.1.44).
Subnet mask	Enter the IP address for the subnet mask.
Default route	Enter the IP address for the default IPv4 route.



PPPoE for IPv4 WANs

IPv4 Configuration			
Configuration method	РРРОЕ	•	
Username	Username		
Password	Password	٢	
Access concentrator	Auto		0
Service name	Auto		0
Advanced	>		
Allow DNS server list override			

The following fields appear when **PPPoE** is selected as the configuration method.

- 1. To access LCP and PPP settings, click the down arrow next to Advanced.
- 2. Complete the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

The fields for this option are described in the following table.

Field	Description		
Username	Enter the user ID for this WAN.		
Password	Enter the password for this WAN. To view the password characters, click the Show icon (④).		
Access concentrator Enter the name of the concentrator application. To have the system detect this automat accept the default of Auto			
Service name	Enter the name of the service for this interface. To have the system detect this automatically, accept the default of Auto		
Advanced section			
LCP Echo Interval	Enter the interval for sending echoes in seconds. Options are 1 - 60 seconds. The default is None.		
LCP Echo Retry	Enter the number of ping retries before the connection is identified as down. The default is None.		
PPP Persist	PPP persistent dialing ensures that a dropped call link is rebuilt. To <i>enable</i> PPP persistence, click the slide button.		



Field	Description
PPP Holdoff	Enter the number of seconds before attempting to reconnect a dropped call. The default is zero (0) .
Allow DNS server list override	(Optional) To allow override of the DNS server list, click the slide button. To prevent override,
	click the slide button again.

DHCPv6 for IPv6 WANs

The following fields appear when DHCPv6 is selected as the configuration method. This method is the default for IPv6 WANs.

IPv6 Configuration		
Configuration method	DHCPv6	•
DHCPv6 Client Mode	Autoconfig	•
Request Prefix Length	Auto	•
Prefix Hint	e.g. 1234	
Allow DNS server list override		

- 1. Complete the fields using the information in the table below.
- 2. Click the Apply button in the Pending changes... dialog box to save your settings.

The fields for this option are described in the following table.

Field	Description
DHCPv6 Client Mode	Select the mode for the DHCPv6 client. Options are:
	• Autoconfig: Attempt to use the DHCP server for configuration. If no IP address is provided, then use SLACC for configuration. This is the default.
	• Stateful: Use only the IP address provided by the DHCP server.
	Stateless: Use only SLACC for configuration.
Request Prefix Length	Select the length of the prefix sent with the request. Options are Auto , 48 , 52 , 56 , 59 - 64 , and None . The default is Auto .



Field	Description
Prefix Hint	Enter the 4-digit hint for the subprefix ID.
Allow DNS server list override	(<i>Optional</i>) To <i>allow</i> override of the DNS server list, click the slide button . To <i>prevent</i> override, click the slide button again.

Static Address for IPv6 WANs

The following fields appear when **Static Address** is selected as the configuration method.

IPv6 Configuration	
Configuration method	Static Address 🔹
Address	IPv6 Address
Gateway	Default Route

- 1. Complete the fields using the information in the table below.
- 2. Click the Apply button in the Pending changes... dialog box to save your settings.

Complete the fields using the information in the table below.

Field	Description
Address	Enter the static address for IPv6 communications (such as 2001:db8:a0b:12f0::1).
Gateway	Enter the IP address for the default IPv6 route.

IPTV

On this page, you can configure the IPTV settings for your Ethernet WAN.



- 1. In the left menu, click Network > Ethernet WAN. The Ethernet WAN page appears, showing the Internet settings.
- 2. Click the **IPTV** button. The following page appears.

SI	MART/RG°	=	Q Search			
æ	Dashboard		Ethernet WAN			
묾	Network	~				
	Status			WAN Services		
	Ethernet WAN	~				
	SFP			Internet IPTV	Voice Management Cross-Connec	t
	LAN Network	>				-
	Guest Network	>				
	Video Network	>				
	Multicast	>		IPTV Service		
	Routing	>				
	Firewall	>		Enabled		
(:	WiFi	>				
	Devices	>		Tag mode	Tagged •	
	Services	>		VLAN	3	
•	Admin	>		P-bit	0	0
				IPv4 Configuration		
				Configuration method	DHCP -	
				Hostname	Hostname	
				Create Default Route		

- 3. To enable the IPTV feature, click the slide button to the right of Enabled.
- 4. Configure the tagging options:
 - a. In the **Tag mode** field, select the type of tagging that should be performed. Options are **Untagged** and **Tagged**. The default is **Tagged**.
 - b. If Tagged is selected, the VLAN and P-bit fields appear. Enter the ID of the appropriate VLAN. Valid values are 1 4079. The default is 3. Enter the P-bit type. Options are 0 7. The default is 0.



- 5. In the IPV4 Configuration section, configure the settings using the information in "DHCP for IPv4 WANs" and "Static Address for IPv4 WANs".
- 6. Click the Apply button in the Pending changes... dialog box to save your settings.

Voice

On this page, you can configure the voice settings for your Ethernet WAN.

- 1. In the left menu, click Network > Ethernet WAN. The Ethernet WAN page appears, showing the Internet settings.
- 2. Click the **Voice** button. The following page appears.

Dashboard		Ethernet WAN				
Network	~		WAN Services			
Status			TAN SELVICES			
Ethernet WAN	~					
SFP			Internet	PTV Voice M	anagement Cro	ss-Connect
LAN Network	2					
Guest Network	2					
Video Network Multicast	2		Voice Service			
Routing			. orec service			
Firewall	ः श					
WIFI			Enabled			
	<i></i>		Tag mode	Timed		
Devices	5		rag mode	Tagged	•	
Services	>		VLAN	4		
O Admin						
			P-bit	0		0
						0.00
			IPv4 Configuration			
			Configuration method	Choose option	-	
			IPv6 Configuration			
			Configuration method	None	-	

- 3. To enable the Voice feature, click the slide button to the right of Enabled.
- 4. Configure the tagging options:
 - a. In the Tag mode field, select the type of tagging that should be performed. Options are Untagged, Tagged, and DQTagged. The default is Tagged.
 - b. If **Tagged** or **DQTagged** is selected, the **VLAN** and **P-bit** fields appear. Enter the ID of the appropriate VLAN. Valid values are 1 4079. The default is 4. Enter the P-bit type. Options are 0 7. The default is 0.



- c. If DQTagged is selected, the CVID field also appears. Enter the Customer VLAN ID or the first in a range of CVIDs that will be accepted and mapped to the specified WAN. Valid values are 1 4062. The default is 0.
- 5. In the IPV4 Configuration section, configure the settings using the information in "DHCP for IPv4 WANs", "Static Address for IPv4 WANs", or "PPPoE for IPv4 WANs".
- 6. In the IPV6 Configuration section, configure the settings using the information in "DHCPv6 for IPv6 WANs" and "Static Address for IPv6 WANs".
- 7. Click the Apply button in the Pending changes... dialog box to save your settings.

Management

On this page, you can configure the settings for managing your network and the devices connected to it.



- 1. In the left menu, click Network > Ethernet WAN. The Ethernet WAN page appears, showing the Internet settings.
- 2. Click the Management button. The following page appears.

SM	ART/RG°	=	Q Search			
& D	ashboard		Ethernet WAN			
R N	letwork	~		WAN Services		
	tatus			WAIN SELVICES		
	thernet WAN	~				
	SFP			Internet IPTV	Voice Management Cr	oss-Connect
	AN Network	>				
	uest Network	>				
	'ideo Network	>		Management Camila		
	fulticast	2		Management Service		
	outing	>				
	irewall	>		Enabled		
• V	ViFi	>				
D	evices	>		Tag mode	Tagged	*
S	ervices	>		VLAN	6	
A	dmin	>				
				P-bit	0	C
				IPv4 Configuration		
				Configuration method	DHCP	-
				Hostname	Hostname	
				Create Default Route	()m	
				Allow DNS server list override		
				IPv6 Configuration		
				Configuration method	DHCPv6	
				comparation method	DHCPV6	•
				DUCDUC Climate Made		
				DHCPv6 Client Mode	Autoconfig	•
				De muest Des Guit an att		
				Request Prefix Length	Auto	•
				Prefix Hint	e.g. 1234	
				Allow DNS server list override		

- 1. To enable the Management feature, click the slide button to the right of Enabled.
- 2. Configure the tagging options:
 - a. In the Tag mode field, select the type of tagging that should be performed. Options are Untagged, Tagged, and DQTagged. The default is Tagged.



- b. If **Tagged** or **DQTagged** are selected, the **VLAN** and **P-bit** fields appear. Enter the ID of the appropriate VLAN. Valid values are **1 4079**. The default is **6**. Enter the P-bit type. Options are **0 7**. The default is **0**.
- c. If **DQTagged** is selected, the **CVID** field also appears. Enter the Customer VLAN ID or the first in a range of CVIDs that will be accepted and mapped to the specified WAN. Valid values are **1 4062**. The default is **0**.
- 3. In the IPV4 Configuration section, configure the settings using the information in "DHCP for IPv4 WANs", "Static Address for IPv4 WANs", or "PPPoE for IPv4 WANs".
- 4. In the IPV6 Configuration section, configure the settings using the information in "DHCPv6 for IPv6 WANs" and "Static Address for IPv6 WANs".
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Cross-Connect

On this page, you can configure bridge settings for traffic moving from a WAN-side VLAN to a LAN port. This can be used for bridged IPTV or other services.

- 1. In the left menu, click Network > Ethernet WAN. The Ethernet WAN page appears, showing the Internet settings.
- 2. Click the Cross-Connect button. The following page appears.

SI	MART/RG°	=	Q Search				•
1	Dashboard		Ethernet WAN				
*	Network	*					
	Status			WAN Services			
	Ethernet WAN	~					
	SFP			Internet	IPTV Voice Management	Cr	oss-Connect
	LAN Network	>					and the second second
	Guest Network	5					
	Video Network	\rightarrow					
	Multicast	0		Cross-Connect	Service		
	Routing	>					
	Firewall	>		Enabled			
÷	WiFi						
۵	Devices			Tag mode	Tagged	•	
Q	Services	>		VLAN	5		
0	Admin	>					
				P-bit	0		0

- 3. To enable the Cross-Connect feature, click the slide button to the right of Enabled.
- 4. Configure the tagging options:
 - a. In the Tag mode field, select the type of tagging that should be performed. Options are Untagged, Tagged, and DQTagged. The default is Tagged.
 - b. If **Tagged** or **DQTagged** is selected, the **VLAN** and **P-bit** fields appear. Enter the ID of the appropriate VLAN. Valid values are 1 4079. The default is 5. Enter the P-bit type. Options are 0 7. The default is 0.



- c. If **DQTagged** is selected, the **CVID** field also appears. Enter the Customer VLAN ID or the first in a range of CVIDs that will be accepted and mapped to the specified WAN. Valid values are **1 4062**. The default is **0**.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

SFP

On this page, you can view SFP status and statistics for your fiber service including fiber length, vendor details, and transmission power. SM8 GPON and off-the-shelf Gigabit Ethernet modules are supported.

In the left menu, click Network > Ethernet WAN > SFP. The following page appears. If an SFP module is connected to the gateway, detailed information appears on this page.

SMART/RG° =		=	Q Search
æ	Dashboard		SFP Statistics
80	Network	•	
	Status		
	Ethernet WAN	~	A
	SFP		
	LAN Network	>	NO SFP MODULE FOUND
	Guest Network	>	



LAN Network

In this section, you can view and configure information about the DHCP server, DHCP clients and Ethernet ports.

1. In the left menu, click Network > LAN Network. The following page appears.

SI	MART/RG°	=	Q Search			
æ	Dashboard		LAN Network			
묾	Network	~				
	Status			IPv4 Configuration		
	Ethernet WAN	>				
	LAN Network	~		IP Address	192.168.65.1	
	DHCP Server					
	DHCP Clients			Subnet mask	255.255.255.0	
	Ethernet Ports					
	Guest Network	>		Create default route		
	Video Network	>				
	Multicast	>				
	Routing	>				
	Firewall	>		IPv6 Configuration		
(;	WiFi	>				
۵	Devices	>		Enabled	••	
Q	Services	>		Prefix length	64	1
•	Admin	>				
				Suffix	Random -	

- 2. Fill in the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Field	Description			
IPv4 Configuration sec	tion			
IP Address	Enter the IP address for IPv4 communications (such as 192.168.1.44). The default is the address assigned to the gateway.			
Subnet mask	Enter the IP subnet mask for this gateway. The default is 255.255.255.0 .			
Create default route	To create a default route for this WAN, click the slide button to the right of Create default route.			
IPv6 Configuration sec	tion			
Enabled	This option is <i>enabled</i> by default. To <i>disable</i> IPv6 address configuration, click the slide button to the right of Enabled. The Prefix length and Suffix fields are hidden.			
Prefix length	Enter the prefix length for this IPv6 address. Options are 0 - 64 . The default is 64 .			



Field	Description
Suffix	Select the interface identifier for this IPv6 address. Options are Random , MAC Based , and Suffix Address . The default is Random .
	If you select Suffix Address , the Suffix Address field appears. Enter the address in format: "::a:b:c:d".

DHCP Server

On this page, configure the DHCP settings for the gateway. The Dynamic Host Control Protocol Server (DHCP) feature of this gateway will automatically assign LAN IP addresses to host devices as they connect.



SN	1art/rg°	=	Q Search		
2	Dashboard		LAN DHCP Server		
00	Network			Losso Configuration	
	Status			Lease Configuration	
	Ethernet WAN	>			
	LAN Network	~		Lease duration:	1 Hour
	DHCP Server				
	DHCP Clients				
	Ethernet Ports				
	Guest Network	>		DHCPv4 Configuration	
	Video Network	>			
	Multicast	>		Enabled	•••
	Routing	>			
	Firewall	>		Pool start	100
1	WiFi	>			
1	Devices	>		Pool size	150
Ç	Services	>			
7	Admin	>			
				DHCPv6 Configuration	
				Enabled	••
				Router advertisement	Managed -
					Manage a
				DHCP Custom DNS Ser	+ Add DI
				# IP AD	DRESS ACTI
				DHCP Static Associatio	ns + Add ho
				# DEVICE NAME	MAC ADDRESS IP ADDRESS IPV6 DUID IPV6 HOST ID ACTIC

1. In the left menu, click Network > LAN Network > DHCP Server. The following page appears.

- 2. Fill in the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Description
Select how long an IP address will be leased. Options range from 5 minutes to 24 hours . The default is 1 Hour .



Field	Description
DHCPv4 Configuration	
Enabled	This feature is <i>enabled</i> by default. To <i>disable</i> this feature, click the slide button.
Pool start	Enter the beginning of the class-C IP address range to be assigned by the DHCP server. The default is 100 .
Pool size	Enter the size of the DHCP pool. The maximum size allowed is 252 . The default is 150 .
DHCPv6 Configuration	
Enabled	This feature is <i>enabled</i> by default. To <i>disable</i> this feature, click the slide button.
Router advertisement	Select how this gateway will be advertised through this DHCPv6 server. Options are:
	 Assisted: Advertises this gateway with all configuration, with stateless auto-configuration, or both. Managed: Advertises this gateway with all configuration. This is the default. Unmanaged: Advertises this gateway with only stateless auto-configuration.
DHCP Custom DNS Servers	(<i>Optional</i>) To define a DNS server, follow the steps in "Defining a Custom DNS Server".
DHCP Static Associations	(Optional) To define a static DHCP server, follow the steps in "Defining a Static DHCP IP Address".

Defining a Custom DNS Server

If desired, a static IP address may be associated with the MAC address of a specific LAN host device.

1. To select a LAN client device, click Add DNS to the right of the DHCP Custom DNS Servers section heading. The Add Custom DNS Server dialog box appears.

Add Custom DNS Server		×
IP Address		
Enter IP Address		
	Close	Save changes

- 2. Enter the IP address of the host device (such as 192.168.1.44).
- 3. Click Save changes to commit your changes.

To add another DNS server, repeat Steps 1-3.

To edit a static DHCP IP address, click the Edit () icon next to it. The Add/Edit dialog box appears. Change the entries as needed and click Save Changes to commit your changes.



To remove a custom server IP address, click the **Delete** icon ()next to it.

Defining a Static DHCP IP Address

You can define a static IP address to be associated with the MAC address of a specific LAN host device.

1. To select a LAN client device, click Add host to the right of the DHCP Static Associations section heading. The Add/Edit DHCP Static Association dialog box appears.

Add/Edit DHCP Static Association	×
Connected hosts	
No host selected	•
Device Name	
Hostname	
MAC Address	
MAC	
IP Address	
IPv4 Address	
IPv6 DUID	
IPv6 Duid	
IPv6 Host ID	
IPv6 Host ID	
Close	Save changes

- In the Connected Hosts field, select the host server that you want to use as a static host. When you select a connected host, the other fields in the dialog box are populated with the necessary information. If the host is currently offline or you select None in this field, you must enter the information manually.
- 3. Click Save changes to commit your changes.

To add another static DHCP configuration, repeat Steps 1-4.

To edit a static DHCP IP address, click the Edit icon () next to it. The Add/Edit dialog box appears. Change the entries as needed and click Save Changes to commit your changes.



To remove a static DHCP IP address, click the **Delete** icon ()next to it.

Click the Apply button in the Pending changes... dialog box to save your settings.

DHCP Clients

On this page, you can view the IPv4 and IPv6 DHCP clients connected to your LAN.

In the left menu, click Network > LAN Network > DHCP Clients. The following page appears.

SMART/RG°	Ŧ	Q Sea	arch				▲ C ⊕ (Admin
🙆 Dashboard		LAN D	HCP Clients					
Retwork	~	DUIG						
Status		DHC	Pv4 Clients					
Ethernet WAN	>		IP ADDRESS	MAC ADDRESS	HOSTNAME		EXPIRES	
DHCP Server	*	1	192.168.65.146	00:ee:bd:a0:c8:a5	android-86f51421	51551f3b	4/9/2020, 2:30:19 PM America/Vancou	iver
DHCP Clients		2	192.168.65.187	c8:f7:50:b4:61:c1	kdadamo7390w10	D	4/9/2020, 2:19:35 PM America/Vancou	Iver
Ethernet Ports								
Guest Network	>							
Video Network	>	DHC	Pv6 Clients					
Multicast	>		IP ADDRESS	DUID	HW ADDRESS	HOSTNAME	EXPIRES	
Routing	>							
Firewall	>	1	fd52:2cab:bf3d:0:4dc0:3f30:0:a75/128	0001000123fbbe039cebe8b05c6a	-	kdadamo7390w10	4/9/2020, 2:27:56 PM America/Va	ncouver
😴 WiFi	>		-					



Ethernet Ports

On this page, you can select which service to run for each interface defined on your gateway.

1. In the left menu, click Network > LAN Network > Ethernet Ports. The following page appears.

SMART/RG° =		Q Search			
🙆 Dashboard		Ethernet Ports			
Hetwork	~				
Status			Port Configuration		
Ethernet WAN	>				
LAN Network	~		LAN1	LAN	•
DHCP Server					
DHCP Clients			LAN2	LAN	•
Ethernet Ports					
Guest Network			LAN3	LAN	•
Video Network	>				_
Multicast	>		LAN4	LAN	•
Routing	>				
Firewall					

- Select an option for each port where a particular service is to be defined. Options are LAN, Guest, Video, Voice, Cross-Connect, and None. The default is LAN.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Guest Network

In this section, you can configure settings for a guest network including a DHCP server.



S	MART/RG°	=	Q Search			
Ð	Dashboard		Guest Network			
묾	Network	~		Guest Configuration		
	Status			Guest Configuration		
	Ethernet WAN	>				
	LAN Network	>		Enabled		
	Guest Network	~				
	DHCP Server					
	DHCP Clients			IPv4 Configuration		
	Video Network	>		1FV4 Configuration		
	Multicast	>				
	Firewall	,		Configuration method	Static -	
(:-	WiFi	>		IP Address	192.168.2.1	
۵	Devices	>		Subnet mask	255.255.255.0	
Q	Services	>				
0	Admin	>		Create default route		
				IPv6 Configuration		
				Enabled	•	
				Prefix length	64	0
				Suffix	Random	

1. In the left menu, click Network > Guest Network. The following page appears. This feature is enabled by default.

- 2. To *disable* this feature, click the **slide button** next to **Enabled**.
- 3. In the **Configuration method** field, select the method for the IPv4 server. Options are **Static**, **DHCP** and **None**. The default is **Static**.

Note: If you select None, the other fields in this section are hidden.

- 4. To create a default route for this LAN, click the slide button to the right of Create default route.
- 5. Fill in the fields using the information in the table below.
- 6. Click the Apply button in the Pending changes... dialog box to save your settings.



Field	Description
IPv4 Settings s	ection - for Static configuration method
IP Address	Enter the IP address for IPv4 communications (such as 192.168.1.1). The default is the address assigned to the gateway.
Subnet Mask	Enter the IP subnet mask for this gateway. The default is 255.255.255.0 .
IPv4 Settings s	ection - for DHCP configuration method
Hostname	(<i>Optional</i>) Enter the host name that will display to your users.
IPv6 Settings s	ection
Enabled	This option is <i>enabled</i> by default. To <i>disable</i> IPv6 address configuration, click the slide button to the right of Enabled . The Prefix Length and Suffix fields are hidden.
Prefix length	Enter the prefix length for the IPv6 server. Options are 0 - 64 . The default is 64 .
Suffix	Select the interface identifier for this IPv6 address. Options are Random , MAC Based , and Suffix Address . The default is Random .
	If you select Suffix Address, the Suffix Address field appears. Enter the address in format: "::a:b:c:d".

DHCP Server

On this page, you can configure DHCP settings for your guest network.





SN	1art/rg°	=	Guest DHCP Server		
Ð	Dashboard			Lease Configuration	
묾	Network	~		Lease duration:	
	Status			Lease duration.	5 Minutes 👻
	Ethernet WAN				
	LAN Network	>			
	Guest Network DHCP Server	~		DHCPv4 Configuration	
	DHCP Server				
	Video Network	>		Enabled	-
	Multicast	>		LIUDICU	-
	Routing	>		Pool start	100
	Firewall	>			
(î	WiFi	>		Pool size	150
	Devices	>			
O	Services	>			
•	Admin	>		DHCPv6 Configuration	
				Enabled	
				Router advertisement	Managed •
				DHCP Static Associations	+ Add host
				# DEVICE NAME MAC ADDR	LESS IP ADDRESS IPV6 DUID IPV6 HOST ID ACTIONS

1. In the left menu, click Network > Guest Network > DHCP Server. The following page appears.

- 2. Fill in the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Select how long an IP address will be leased. Options range from 5 minutes to 24 hours . The default is 5
minutes.
This feature is <i>enabled</i> by default. To <i>disable</i> this feature, click the slide button.
Enter the beginning of the class-C IP address range to be assigned by the DHCP server. The default is 100 .
Enter the size of the DHCP pool. The maximum size allowed is 252 . The default is 150 .
tion
This feature is <i>enabled</i> by default. To <i>disable</i> this feature, click the slide button.
- - - - -



Field	Description
Router Advertisement	Select how this gateway will be advertised through this DHCPv6 server. Options are Assisted , Managed , and Unmanaged . The default is Managed .
	The Assisted option advertises this router with all configuration through a DHCPv6 server <i>and/or</i> stateless auto configuration.
DHCP Static Associations	(<i>Optional</i>) To define a static DHCP server, follow the steps in "Defining a Static DHCP IP Address".

Defining a Static DHCP IP Address

You can define a static IP address to be associated with the MAC address of one of your LAN host devices.

1. To select a LAN client device, click Add host to the right of the DHCP Static Associations section heading. The Add/Edit DHCP Static Association dialog box appears.

Connected hosts		
No host selected		•
Device Name		
Hostname		
MAC Address		
MAC		
IP Address		
IPv4 Address		
IPv6 DUID		
IPv6 Duid		
IPv6 Host ID		
IPv6 Host ID		
	Close	Save changes



- 2. In the **Connected Hosts** field, select the host server that you want to use as a static host. When you select a connected host, the fields in the dialog box are populated with the necessary information. If the host is currently offline or you select **None** in this field, you must enter the information manually.
- 3. Complete the fields, using the information in the table below.
- 4. Click Save changes to commit your changes.

The fields in this dialog box are described in the following table.

Field	Description
Device Name	Enter a name for the host device.
MAC Address	Accept the displayed address or enter the MAC address of the host device (such as 00:23:6A:A3:7C:C3). The MAC address of the device selected in Step 2 appears in this field.
IP Address	Accept the displayed address or enter the IP address of the host device (such as 192.168.1.44). The IP address of the device selected in Step 2 appears in this field.
IPv6 DUID	Enter the DHCP Unique Identifier (DUID) for the IPv6 server.
IPv6 Host ID	Enter the ID for the IPv6 host server.

To add another static DHCP configuration, repeat Steps 1-4.

To edit a static DHCP IP address, click the Edit icon () next to it. The Add/Edit dialog box appears. Change the entries as needed and click Save Changes to commit your changes.

To remove a static DHCP IP address, click the **Delete** icon (main in the interval in the inter

Click the Apply button in the Pending changes... dialog box to save your settings.

DHCP Clients

On this page, you can view the IPv4 and IPv6 DHCP clients connected to your gateway.

In the left menu, click Network > Guest Network > DHCP Clients. The following page appears.

SMART/RG°	=	Q Search			🜲 🕻 🌐 일 Admin
🙆 Dashboard		Guest DHCP Clients			
Retwork	~				
Status		DHCPv4 Clients			
Ethernet WAN	>	# IP ADDRESS	MAC ADDRESS	HOSTNAME	EXPIRES
LAN Network	>				
Guest Network	~				
DHCP Server		DHCPv6 Clients			
DHCP Clients		# IP ADDRESS	DUID HW ADDRESS	HOSTNAME	EXPIRES
Video Network	>				



Video Network

In this section, you can configure WAN settings for video data.

1. In the left menu, click Network > Video Network. The following page appears. This feature is disabled by default.

SI	MART/RG°	ll.	Q Search		
Ð	Dashboard		Video Network		
*	Network	~			
	Status			Video Configuration	
	Ethernet WAN	>			
	LAN Network	>		Enabled	
	Guest Network	>			
	Video Network	~			
	DHCP Server				
	DHCP Clients			IPv4 Configuration	
	Multicast	>			
	Routing	>		Configuration method	Static 👻
	Firewall	>			
(:-	WiFi	>		IP Address	192.168.3.1
	Devices	>			
D	Services	>		Subnet mask	255.255.255.0
0	Admin	>		Create default route	

- 2. To enable this feature, click the slide button to the right of Enabled.
- 3. In the **Configuration method** field, select the appropriate method for your WAN. Options are **Static**, **DHCP**, and **None**. The default is **Static**. The page refreshes to show the fields that apply for the selected method.

Note: If you select None, the other fields are hidden.

- 4. Fill in the other fields as explained below for each option:
 - "Static"
 - "DHCP"
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Static

When you select Static in the Configuration method field, the following fields appear.



IPv4 Configuration		
Configuration method	Static •	
IP Address	192.168.3.1	
Subnet mask	255.255.255.0	
Create default route		

- 1. Modify the fields using the information in the table below.
- 2. Click the Apply button in the Pending changes... dialog box to save your settings.

Field	Description
IP Address	Enter the IP address for IPv4 communications (such as 192.168.1.44).
Subnet mask	Enter the IP address for the subnet mask.
Create default route	To create a default route for this WAN, click the slide button next to Create default route.

DHCP

When you select **DHCP** in the **Configuration method** field, the following fields appear.

IPv4 Configuration		
Configuration method	DHCP	
Hostname	Hostname	
Create default route		

- 1. (Optional) In the Hostname field, enter the host name to be included in DHCP requests.
- 2. To create a default route for this WAN, click the slide button next to Create default route.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.



DHCP Server

On this page, you can configure DHCP settings for the video network.

1. In the left menu, click Network > Video Network > DHCP Server. The following page appears.

SMART/RG°		=	Q Search		
Ð	Dashboard		Video DHCP Server		
80	Network	~			
	Status			Lease Configuration	
	Ethernet WAN	>			
	LAN Network	>		Lease duration:	5 Minutes
	Guest Network	>			
	Video Network	~			
	DHCP Server				
	DHCP Clients			DHCPv4 Configuration	
	Multicast	>			
	Routing	>		Enabled	
	Firewall	>			
(:-	WiFi	>		Pool start	100
	Devices	>		Pool size	150
D	Services	>			
	Admin	>			
				DHCPv6 Configuration	
				Enabled	
				DHCP Static Associations	+ Add host
				# DEVICE NAME MAC ADD	RESS IP ADDRESS IPV6 DUID IPV6 HOST ID ACTIONS

- 2. Fill in the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Field	Description
	Select how long an IP address will be leased. Options range from 5 minutes to 24 hours . The default is 5 minutes .



Field	Description
DHCPv4 Configuration s	ection
Enabled	This feature is <i>enabled</i> by default. To <i>disable</i> this feature, click the slide button.
Pool start	Enter the beginning of the class-C IP address range to be assigned by the DHCP server. The default is 100.
Pool size	Enter the size of the DHCP pool. The maximum size allowed is 252 . The default is 150 .
DHCPv6 Configuration	section
Enabled	This feature is <i>disabled</i> by default. To <i>enable</i> this feature, click the slide button.
Router advertisement	(Appears when Enabled is set to On) Select how this gateway will be advertised through this DHCPv6 server. Options are Assisted, Managed, and Unmanaged.
	The Assisted option advertises this router with all configuration through a DHCPv6 server <i>and/or</i> stateless auto configuration.

Defining a Static DHCP IP Address

You can define a static IP address to be associated with the MAC address of one of your LAN host devices.

1. To select a LAN client device, click Add host to the right of the DHCP Static Associations section heading. The Add/Edit DHCP Static Association dialog box appears.



Add/Edit DHCP Static Associat	ion	×
Connected hosts		
No host selected		
Device Name		
Hostname		
MAC Address		
MAC		
IP Address		
IPv4 Address		
IPv6 DUID		
IPv6 Duid		
IPv6 Host ID		
IPv6 Host ID		
	Close	Save changes

- 2. In the **Connected Hosts** field, select the host server that you want to use as a static host. When you select a connected host, the fields in the dialog box are populated with the necessary information. If the host is currently offline, you must enter the information manually.
- 3. Complete the fields, using the information in the table below.
- 4. Click Save changes to commit your changes.

To add another static DHCP configuration, repeat Steps 1-4.

To edit a static DHCP IP address, click the Edit icon () next to it. The Add/Edit dialog box appears. Change the entries as needed

and click Save Changes to commit your changes.

To remove a static DHCP IP address, click the **Delete** icon () next to it.

Click the Apply button in the Pending changes... dialog box to save your settings.

The fields in this dialog box are described in the following table.



Field	Description
Device Name	Enter a name for the host device.
MAC Address	Enter the MAC address of the host device (such as 00:23:6A:A3:7C:C3).
IP Address	Enter the IP address of the host device (such as 192.168.1.44).
IPv6 DUID	Enter the DHCP Unique Identifier (DUID) for the IPv6 server.
IPv6 Host ID	Enter the ID for the IPv6 server.

DHCP Clients

On this page, you can view the IPv4 and IPv6 DHCP clients connected to the video network.

In the left menu, click Network > Video Network > DHCP Clients. The following page appears, showing any active video clients.

SMART/RG°	=	Q Search				🔺 🕻 🌐 🚨 Adr	nin
🙆 Dashboard		Video DHCP Clients					
Retwork	~						٦
Status		DHCPv4 Clients					
Ethernet WAN	>	# IP ADDRESS	MAC	ADDRESS	HOSTNAME	EXPIRES	
LAN Network	>						
Guest Network	>						
Video Network	~	DHCPv6 Clients					
DHCP Server		# IP ADDRESS	DUID	HW ADDRESS	HOSTNAME	EXPIRES	
DHCP Clients							

Multicast

On this page, you can configure IGMP settings such as the Fast-Leave option and view details of the joined groups including IP address, device name, and bridge ID.



SI	MART/RG°	=	Q Search			
Ð	Dashboard		Multicast			
器	Network	~				
	Status			IGMP Configuration		
	Ethernet WAN	>				
	LAN Network	>		Force IGMPv2		
	Guest Network	>				
	Video Network	>		Enable Fast-Leave		
	Multicast	~				
	Video Analyzer					
	Routing	>				
	Firewall	>		IGMP Joined Groups		
(•	WiFi	>		GROUP	DEVICE	BRIDGE
	Devices	>		239.255.255.250	LAN2	br-lan
D	Services	>		239.255.255.250	WIFI2G	br-lan
V	Admin	>		239.255.255.250	WIFI5G	br-lan

1. In the left menu, click Network > Multicast. The following page appears.

- 2. (Optional) To disable the IGMPv2 feature, click the slide button next to Force IGMPv2.
- 3. (Optional) To disable the Fast-Leave feature, click the slide button next to Enable Fast-Leave.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Video Analyzer

On this page, you can configure the IP multicast video streams.

1. In the left menu, click Network > Multicast > Video Analyzer. The following page appears. If video is configured for your gateway, data about the video stream appears in the bottom section of the page.



SN	MART/RG°	=	Q Search		
Ð	Dashboard		Video Stream An	alyzer	
묾	Network	~			
	Status			Video Stream Configu	ration
	Ethernet WAN	>			
	LAN Network	>		Enabled	
	Guest Network	>			
	Video Network	>		Mode	Snoop 👻
	Multicast	~			
	Video Analyzer			IPv4 multicast address	224.0.0.0
	Routing	>			
	Firewall	>			
(î-	WiFi	>			
	Devices	>		Video Stream Data	
D	Services	>			
0	Admin	>		Ν	NO VIDEO STREAM DETECTED

- 2. To enable this feature, click the slide button to the right of Enabled.
- 3. In the Mode field, select the analyzer mode. Options are Snoop and Join. The default is Snoop.
- 4. (*Optional*) In the IPv4 multicast address field, enter the IP address. Options range from 224.0.0.0 through 239.255.255.255. The default is 224.0.0.0.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

In the Video Stream Data section, when a video stream is active, the stream summary plus information about the stream rate, media delivery index, packet header, and PID counters are shown.

Routing

On this page, you can view the static routes configured for the network (including tables for ARP, IPv4, IPv6, and IPv6 Neighbors).

In the left menu, click **Network** > **Routing**. The following page appears.



SMART/RG°	=	Q Search			🜲 🕻 🌐 🙎 Admin
🙆 Dashboard		Routing Status			
Status	~	ARP Table			
Ethernet WAN	>	IP ADDRESS	м	AC ADDRESS	DEVICE
LAN Network Guest Network	>	192.168.0.2	00	0:00:00:00:00:00	BR-LAN
Video Network	>	192.168.1.1	94	4:91:7f:78:c3:48	WAN
Multicast	` •	192.168.65.187	c	B:f7:50:b4:61:c1	BR-LAN
Static Routes		192.168.65.146	00	0:ee:bd:a0:c8:a5	BR-LAN
DNS Advanced		169.254.138.100	c	8:f7:50:b4:61:c1	BR-LAN
Downstream QoS					
Firewall	>	IPv4 Routing Table			
 WiFi Devices 	>	IPV4 ADDRESS	GATEWAY	GENMASK	DEVICE
 Devices Services 	· ·	0.0.0.0	192.168.1.1	0.0.0.0	WAN
 Admin 	,	192.168.1.0	0.0.0.0	255.255.255.0	WAN
		192.168.1-1	0.0.0.0	255.255.255.255	WAN

Static Routes

On this page, you can specify the routes over which interface and gateway for a certain host or network can be reached. When several networks are accessible from the gateway, this option is useful to ensure packets get correctly routed between them.

1. In the left menu, click Network > Routing > Static Routes. The following page appears, showing sections for IPv4 Static Routes and IPv6 Static Routes.

SMART/RG°	≡	Q Search				. ↓ . C	🖨 👱 Admin
🔁 Dashboard		Static Routes					
Retwork	~						
Status		IPv4 Static Rou	tes				+ Add route
Ethernet WAN	>	INTERFACE	TARGET	NETMASK	GATEWAY	METRIC	ACTIONS
LAN Network	>						
Guest Network	>						
Video Network	>	IPv6 Static Rou	tes				+ Add route
Multicast	>	INTERFACE	TARGET	GATEWAY		METRIC	ACTIONS
Routing	~	INTERFACE	TARGET	GATEWAT		merne	ACTIONS
Static Routes							



2. Click the Add Route button to the right of the heading for the desired IP version. The appropriate Add Static Route dialog box appears.

Add Static IPv4 Route		×
Interfaces		
WAN		•
Target		
Target IPv4 Address		
Netmask		
Netmask		
Gateway		
Gateway		
Metric		
0		
	Cancel	Accept

- a. Complete the fields, using the information provided in the table below.
- b. Click Accept to save your changes. You are returned to the Static Routes page.
- 3. To edit an existing route:
 - a. Click the Edit icon () to the right of the entry to be edited. The Add Static Route dialog box appears.
 - b. Modify the fields as needed and then click Accept.
- 4. To delete a route, click the **Delete** icon () to the right of the entry to be deleted.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

The following table describes the fields on this page.

Field Name	Description
Interfaces	Select the interface for the static route.



Field Name	Description
Target	Enter the host IP or network address. Enter specific IP addresses for a single device or identify an entire subnet. e.g., enter 192.168.1.0 to identify that subnet as the target.
Netmask	(Appears for IPv4 routes only) Enter the net mask for the target IP address.
Gateway	Enter the gateway address for the route.
Metric	Enter the number of hops needed to reach the default gateway. The default is 0 .

DNS

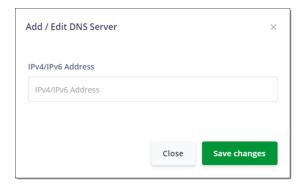
On this page, you can configure network DNS servers.

1. In the left menu, click Network > Routing > DNS. The following page appears.

SMART/RG°	=	Q Search		A (🖶 🙁 Admin
🔁 Dashboard		DNS			
Retwork	~				
Status		Custom DN	IS Servers		+ Add server
Ethernet WAN	>		IPV4/IPV6 ADDRESS		ACTIONS
LAN Network	>				

2. To add a custom DNS server:

a. Click the Add server button. The Add/Edit DNS Server dialog box appears.



- b. Enter the IP address of the custom DNS server.
- c. Click Save changes.
- d. To add another IP address, repeat steps a c.
- 3. To change a DNS server address:
 - a. Click the Edit ()) icon next to it. The Add/Edit dialog box appears.
 - b. Enter the new server address
 - c. Click Save Changes to commit your changes.



- 4. To remove a server, click the **Delete** icon (**C**) next to it. The list is refreshed.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Advanced

On this page, you can configure the WAN MTU setting.

1. In the left menu, click **Network** > **Routing** > **Advanced**. The following page appears.

S	MART/RG°	=	Q Se	arch				C	۲
æ	Dashboard		Advar	nced Network C	onfiguration				
器	Network	~							
	Status			Advanced Con	figuration				
	Ethernet WAN	>							
	LAN Network	>		WAN MTU 1500					
	Guest Network	>	-						

- 2. Enter or select the MTU (Maximum Transmission Unit) size for the network. Options are 0 2048. The default is 1500.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Downstream QoS

On this page, configure how traffic is prioritized over wireless networks to improve quality of service.



- Q Search **SMART/RG°** = Ļ C **Quality of Service** 🙆 Dashboard 器 Network ~ **QoS** Configuration Status Ethernet WAN Enabled LAN Network Guest Network IP multicast video Video Network COS4 cos Multicast Routing ~ UDP games COS COS6 Static Routes TCP games COS COS5 -Advanced Downstream QoS
- 1. In the left menu, click Network > Routing > Downstream QoS. The following page appears.

- 2. To enable the quality of service feature, click the slide button to the right of Enabled.
- 3. In the three remaining fields, select the appropriate COS (priority) level. Options are COS7 COS0. The default settings work for most systems.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.



Firewall

In this section, you can configure router access, rules, DMZ settings, and port forwarding settings.

1. In the left menu, click Network > Firewall. The following page appears. The firewall is enabled by default.

SI	SMART/RG° =		Q Search					
Ð	Dashboard		Firewall					
묾	Network	~						
	Status		Firewall Configuration					
	Ethernet WAN	>						
	LAN Network	>	Enabled	•				
	Guest Network	>						
	Video Network	>	Stealth mode					
	Multicast	>						
	Routing	>						
	Firewall	*						
	Router Access		Conntrack Helper					
	Rules							
	DMZ		Enabled	•				
	Port Forwarding							

- 2. To *disable* the firewall, click the **slide button** next to **Enabled**.
- 3. To prevent malicious users from discovering information about your network and its devices and service, click the slide button next to Stealth mode.
- 4. The Conntrack Helper feature is *enabled* by default. To *prevent* these modules from assisting the firewall in tracking the various protocols used to establish traffic flow. click the **slide button**.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.



Router Access

On this page, you can configure a destination port and source IP address for router access.

1. In the left menu, click Network > Firewall > Router Access. The following page appears.

S	MART/RG°	=	Q Search	1			¢ (۲	2 Admin
₽	Dashboard		Router A	Access					
묾	Network	~							
	Status		Access	Rules					+ Add
	Ethernet WAN	>		NAME	DEST PORT	SRC IP			ACTIONS
	LAN Network	>							
	Guest Network	>		allow-cwmp-solicit	7547				2 🗙
	Video Network	>						_	

2. To add a mapping, click the Add button at the right side of the page. The Add / Edit Item dialog box appears.

Add / Edit Item		×
Name		
new_rule		
Destination Port		
Port		
Source IP		
IP Address		
Enabled		
	Close	Save changes

- 3. Fill in the fields using the information provided in the table below. All fields are optional.
- 4. Click Save changes. The dialog box closes and the new mapping appears in the Router Access list.



- 5. To edit a mapping:
 - a. Click the Edit icon () next to the line item to be changed. The Add / Edit Item dialog box appears.
 - b. Modify the fields as needed.
 - c. Click Save changes. The updated values appear on the page.
- 6. To *disable* a mapping, clear the checkbox in the far left column for the mapping you wish to suspend. The mapping definition remains on the page but is not active.
- 7. To remove a mapping, click the Delete icon (🕋) at the end of the row to be deleted. The mapping definition is removed.
- 8. Click the Apply button in the Pending changes... dialog box to save your settings.

The fields on this page are explained in the following table.

Field Name	Description
Name	Enter a descriptive name for this rule. No spaces are allowed.
Destination Port	Enter the destination port for this rule.
Source IP	Enter the IP address for the source device (such as 192.168.1.44).
Enabled	New rules are <i>enabled</i> by default. To <i>disable</i> this rule but save the settings, click the slide button.

Rules

On this page, you can define firewall rules to filter traffic.

1. In the left menu, click Network > Firewall > Rules. The following page appears.

SMART/RG°	Ŧ	Q Sea	rch					≜ C	🕀 🙎 Admin
Dashboard		Firewa	ll Rules						
Retwork	~								
Status		Rules	5						+ Add rule
Ethernet WAN	>		NAME	SRC ZONE	SRC PORT	DEST IP	DEST PORT	PROTO	ACTIONS
LAN Network Guest Network	>	×	Allow-Voice-ICMPv6	voice				icmp	
Video Network Multicast	>	۲	Allow-Video-Video	wan		224.0.0.0/4		udp	
Routing Firewall Router Access	> •	×	Allow-Video-DNS	video			53	tcpudp	
Rules DMZ		۲	Block-SSDP	wan		239.255.255.250	1900	udp	
Port Forwarding	>		Allow-MLD	wan				icmp	
		mal	man allowed Children Forces of					micro	



2. To create a new rule:

a. Click the Add rule button to the right of the Rules section heading. The Add / Edit Firewall Rule dialog box appears.

Add / Edit Fire	ewall Rule		
Rule Name			
new_rule			
P Family			
Any			
rotocol			
TCP + UDP			
irewall Action	1		
ACCEPT			
	SOURCE		DESTINATION
Zone	LAN	- Zone	WAN -
IP	IP Address	IP	IP Address
MAC	MAC Address	MAC	MAC Address
Port	Port	Port	Port
			Close Save changes

- b. In the Rule Name field, enter a descriptive name for the rule.
- c. Fill in the other fields using the information in the table below.
- d. Click Save changes.
- 3. To edit a mapping:
 - a. Click the Edit icon () next to the entry you want to change. The Add / Edit Item dialog box appears.
 - b. Modify the fields as needed.
 - c. Click Save changes. The updated values appear on the page.
- 4. To *remove* a rule, click the **Delete** icon () next to the entry you want to delete. The rule is removed.
- 5. To *disable* a rule, clear the checkbox in the far left column. The rule remains on the page but is not active.



6.	Click the Apply button in the Pe	ending changes	dialog box to save	your settings.

Field Name	Description
IP Family	Select the address family. Options are Any, IPv4, and IPv6.
Protocol	Select the protocol for this rule. Options are UDP, TCP, ICMP, TCP + UDP, and ESP.
Firewall Action	Select the action to be performed when this rule is triggered. Options are ACCEPT, REJECT, FORWARD, and DROP. The default is ACCEPT.
SOURCE section	
Zone	Select the source zone. Options are Unspecified, Any, GUEST, VIDEO, WAN, MGMT, LAN and VOICE. The default is LAN.
IP	Enter the source IP address for this rule.
MAC	(<i>Optional</i>) To associate a source MAC address (such as 00236AA37CC3) with this rule, enter the MAC address for your gateway. If an IP address has been entered, the related MAC address appears in this field. To change the source MAC address, enter a new address.
Port	(<i>Optional</i>) To associate a source port with this rule, click the checkbox next to the entry field and then enter the port number for the source address.
DESTINATION se	ction
Zone	Select the destination zone. Options are Unspecified , Any , GUEST , VIDEO , WAN , MGMT , LAN , and VOICE . The default is WAN .
IP	Enter the destination IP address for this rule.
MAC	<i>Optional</i>) To associate a source MAC address (such as 00236AA37CC3) with this rule, enter the MAC address for your gateway. If an IP address has been entered, the related MAC address appears in this field. To change the source MAC address, enter a new address.
Port	(Optional) To associate a destination port with this rule, enter the port number for the destination address.



DMZ

On this page, you can configure DMZ settings for your gateway. For security reasons, it is recommended that you create a static IP address for the host server that you enter on this page.

1. In the left menu, click Network > Firewall > DMZ. The following page appears. The WAN IP Address is read-only.

SM/	ART/RG°	=	Q Search		
🙆 Da	ashboard		DMZ		
윰 Ne	etwork	~			
Sta	atus			DMZ Configuratio	n
Eth	nernet WAN	>			
LA	N Network	>		Enabled	
Gu	lest Network	>			
Vic	deo Network	× .		WAN IP address	192.168.1.54,2603:9000:d804:7055:3e90:66ff:fed8:607 0,2603:9000:d804:7055::44e
Mu	ulticast	>			0,2003.3000.0004.7035448
Ro	uting	>		Host IPv4 address	Choose option -
Fir	ewall	~			
	Router Access				

- 2. To enable this feature, click the slide button to the right of Enabled.
- 3. In the Host IPv4 Address field, select or enter the IP address for which unrestricted Internet access is to be allowed. Note: It is recommended to create a static DHCP association to this host address.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Port Forwarding

On this page, you can configure a local network device to have unrestricted access to the Internet. This is useful when local network devices cannot run an Internet application properly behind the firewall. This is also known as *exposed host* or *virtual server*.

1. In the left menu, click Network > Firewall > Port Forwarding. The following page appears.

SMART/RG°	=	Q Search						♠ C	•	Admin
🙆 Dashboard		Port Forwardi	ing							
Hetwork	~								_	
Status		Port Forward	ing						+	Add rule
Ethernet WAN	>	NAME	DIRECTION	SOURCE IP	DESTINATION IP	PROTOCOL	LOCAL PORT	PUBLIC PO	RT	ACTIONS
LAN Network	>									

2. To add a mapping, click the Add Rule button to the right of the Port Forwarding section heading. The Add/Edit Port Forwarding dialog box appears.



Add / Edit Port Forwarding		×
Source Zone		
WAN		
Destination Zone		
LAN		•
Source IP		
Source IP Address		
Destination Device		
Select connected device		•
Destination IP		
*Required		
Mode		
Select Service from List		•
Service Type		
Select service type		•
Enable Hairpin		
	Cancel	Accept

- 3. Fill in the fields using the information provided in the table below. All fields are optional.
- 4. Click Accept. The dialog box closes and the new mapping appears in the Port Forwarding list.

Field Name	Description
Source Zone	Select the source zone from the drop-down list of zones defined on this network. Options are GUEST , VIDEO , WAN , MGMT , LAN and VOICE . The default is WAN .
Destination Zone	Select the destination zone from the drop-down list of zones. Options are GUEST, VIDEO, WAN, MGMT, LAN and VOICE. The default is LAN.
Source IP	Enter the IP address for the source device (such as 192.168.1.44).
Destination Device	Select a connected device from the devices available in the selected zone.
Destination IP	This field is populated when a destination device is selected. To change this address, type a different address in the field.



Field Name	Description					
Mode	Select whether to use the settings defined for a service or to define the port settings manually. Options are Select Service From List and Configure Manually . The default is Select Service From List .					
Fields defined for u	sing a service					
Service Type	Select the type of service. The Service field appears. Options are Server, Consoles, Remote Access, VPN, Messaging Telephone, and Audio and Video.					
Service	Select the service for the service type selected. The options vary by the type of service.					
Fields defined for c	onfiguring the rule manually					
Public port/ Public port range	(Appears when Configure Manually is selected in the Mode field) Enter the applicable port number or range of numbers. Options are 1 - 65535 .					
Protocol	(Appears when Configure Manually is selected in the Mode field) Select the correct protocol. Options are UDP , TCP , and TCP + UDP .					
Local port/ Local port range	(Appears when Configure Manually is selected in the Mode field) Enter the local port number or range of numbers. Options are 1 - 65535 .					
Port Type	(Appears when Configure Manually is selected in the Mode field) Select whether to enter a single port or a range of ports. If Port range is clicked, the Public port field changes to the Public port range fields and the Local port field changes to the Local port range fields.					
Enable Hairpin	To <i>enable</i> hairpin protocol, click the slide button.					

- 1. To edit a mapping:
 - a. Click the 🕜 icon to the right of the mapping entry. The Add/Edit Port Forwarding dialog box appears.
 - b. Modify the fields as needed, and then click Save. The updated values appear on the page.
- 2. To *disable* a mapping, clear the checkbox that appears before the Name column. The mapping definition remains on the page but is not active.
- 3. To *remove* a mapping, click the **Delete** icon () at the end of the row to be deleted. The rule is removed.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.



WiFi

In this section, you can adjust settings and view performance associated with the WiFi network(s) configured on this gateway.

Status

On this page, you can view status information about the wireless networks connected to your system.

In the left menu, click WiFi > Status. The following page appears, showing the information for the 2.4 GHz and 5 GHz wireless networks.

SN	MART/RG°	=	Q Search				÷ (. 🌐 🙁 Admin
Ð	Dashboard		Wi-Fi Status					년 View charts
*	Network	>						
(:	WiFi	~	Wireless Ra	dios				
	Status		NAME	STATUS	CHANNEL	HW M	ODE	TX POWER
	Scan		2.4GHz	ENABLED	11	11b, 1	11g, 11n	27 dBm
	Radios Networks	>	5GHz	ENABLED	36	11ac,	11n	22 dBm
	Mesh Clients MAC Filtering		2.4GHz Net	works		5GHz Netv	vorks	
	Advanced		NETWORK	SSID	BSSID	NETWORK	SSID	BSSID
	Devices	>	Internet	SmartRG-5700	3C:90:66:D8:57:04	Internet	SmartRG-5700	3C:90:66:D8:57:0A
Ø	Services	>						
0	Admin	>						

To view detailed transmission data for the individual interfaces, click the View charts button (Marts) at the top right. The netdata window opens in a new tab, showing information about the overall SR905ac system, memory, CPUs, firewall, IPv4 networking, etc. Use the navigation menu at right to select the desired statistics to be displayed.

Scan

On this page, you can scan for nearby wireless access points. The available data includes the channel number, SSID, BSSID, OUI, STA, usage, signal, and encryption.

 In the left menu, click WiFi > Scan. The following page appears, showing the wireless access points found during the most recent scan. You can find the latest scan date and time in the top section next to Last scan time. The channels currently in use are displayed below that field.



SMART/RG*	=	Q Search						* C	۰	Q Admin
🙆 Dashboard		Wi-Fi Scan							0	Start Wi-Fi Scan
8 Network	>		Scan Configu	ration						
🗢 WIFI	~		Scan comga					_		
Status Scan			Re-scan interval	0			0			
Radios Networks	>		Re-scan time	0:0			0			
Mesh Clients			Last scan time	Thu Oct 22 11:	43:46 2020					
MAC Filtering Advanced			Auto 2.4GHz cha	nnel 11						
Devices	>		Auto 5GHz chan	nel 36						
C Services	>									
Admin	>									
		Scan Results								
		CHANNEL	SSID	BSSID	oui	STA	USAGE	SIGNAL		ENCRYPTION
		6 (20MHz)	McLean's Wi-Fi Netwo	88:1F:A1:36:C9:50	Apple			•	20 dB	a
		6 (40MHz)	MySpectrumWiFi47-2G	94:91:7F:78:C3:45	ASKEY COMPUTER CORP			-	53 dB	
L		man			-			m		

- 2. Do any of the following:
 - To re-scan for wireless access points near your location, click the Start Wi-Fi Scan button at the top right. The list refreshes in a few moments.
 - To define how often the scan should occur, in the **Re-scan interval** field, enter the number of hours between scans. To disable scanning, enter **zero** (0) in this field. This is the default.
 - To define the time of day when the scan should occur, in the **Re-scan time** field, enter the time in hh:mm format. Options are **00:01 23:59**. The default is **0:0** (disabled).
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Radios

On this page, you can configure 2.4 or 5 GHz wireless networks for the primary SSID.

Note: The maximum number of connected devices for each network is 28. To connect more than 28 devices, create an additional access point.

 In the left menu, click WiFi > Radios. The following page appears, showing the fields for the 2.4 GHz radio. To view and adjust 5 GHz settings, click the 5GHz button.



SMART/	RG° =	Q Search		٠	C 🖶 🙎
🙆 Dashboard		Wireless Radios			
Retwork	>				
🗢 WiFi	~	Radio Configuration	ו		
Status Scan Radios	v	2.4GH	2	5GHz	
Band Steer Networks Mesh	ing	2.4GHz Configuratio	on		
Clients MAC Filtering Advanced	7	Enabled	•		
Devices	>	Tx Power	24 dBm (251 mW)	•	
C Services	>	Bandwidth Mode	HT20	-	
\rm Admin	>	Enable Legacy Rates			
		Auto Channel	•		

- 2. Fill in the fields, using the information in the following table. The same fields are used for both 2.4 GHz and 5 GHz configurations.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description			
Enabled	Each radio is <i>enabled</i> by default. To <i>disable</i> a radio, click the slide button.			
TX Power	Select the maximum rate at which transmission is allowed. Options range from 15 dBm (31 mw) to 30 dBm (1000 mw) . The default is 24 dBm (251 mW) for the 2.4GHz radio and 22 dBm (158 mW) for the 5 GHz radio.			
Bandwidth Mode	2.4 GHz radio: Select the "high throughput" (HT) bandwidth mode for this device. Options are HT20 and HT40 (MHz). The default is HT20 .			
	5 GHz radio: Select the "very high throughput" (VHT) bandwidth mode for this device. Options are VHT20 , VHT40 , and VHT80 . The default is VHT80 .			
Enable Legacy Rates	This feature is <i>disabled</i> by default. To set the gateway to cut transmission briefly when changing channels, click the slide button . This is useful for legacy WiFi clients, enabling them to connect more effectively to a new channel.			



Field Name	Description
Auto Channel	This feature is <i>enabled</i> by default. To <i>disable</i> automatic channel selection , click the slide button. The Channel field appears.
Channel	(Available only when Auto Channel is disabled) Select the channel for this device.
	2.4 GHz radio: Options include Channel 1 (2.412 GHz) - Channel 11 (2.462 GHz).
	5 GHz radio: Options include Channel 36 (5.18 GHz) - Channel 48 (5.24 GHz) and Channel 149 (5.745 GHz) - Channel 165 (5.825 GHz).

Band Steering

On this page, you can configure the band steering settings for your wireless radios.

 In the left menu, click WiFi > Radios > Band Steering. The following page appears. The status of this feature is shown in the Status field at the bottom of the page.

SMART/	RG° =	Q Search		
Dashboard		Band Steering		
Retwork	>		Rend Steering Configu	
🗢 WiFi	~		Band Steering Configu	ration
Status			Enabled	•
Scan				
Radios Band Steen	► ng		2.4GHz Threshold (dBm)	-50 -
Networks				
Mesh			5GHz Threshold (dBm)	-80 -
Clients				
MAC Filtering			Status	ACTIVE

- 2. To *disable* band steering, click the **slide button** to the right of **Enabled**.
- 3. In the 2.4GHz and 5GHZ Threshold (dBm) fields, select the dBm value.
 - For the **2.4GHz Threshold** field, options are **-55** to **-40**. The default is **-50**.
 - For the 5GHz Threshold field, options are -85 to -70. The default is -80.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Networks

On this page, you can configure the Primary, Guest and Video wireless networks.

 In the left menu, click WiFi > Networks. The following page appears, showing the information for the primary wireless network.



Ð	Dashboard		Networks	
80	Network	>	Wi-Fi Networks	
(î	WiFi	~		
	Status Scan Radios		Primary Guest	Video
	Networks Mesh Clients		Primary Wi-Fi	
	MAC Filtering			
			Dual-band SSID	
	Devices	>	Dual-band 2010	
0	Devices Services Admin	3	Wi-Fi Configuration	
0	Services	×		Ø
	Services	×	Wi-Fi Configuration SSID SmartRG-5700	0
0	Services	×	Wi-Fi Configuration SSID SmartRG-5700	
0	Services	×	Wi-Fi Configuration SSID SmartRG-5700 Password	0

- 2. Fill in the fields for the primary network, using the information provided in the table below. The same fields are provided for 2 GHZ and 5 GHz radios.
- 3. To configure the guest network, click the **Guest** button and modify the fields as needed, using the information provided in the table below.
- 4. To configure the video network, click the Video button and modify the fields as needed, using the information provided in the table below.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description			
Dual-band SSID	This feature is <i>enabled</i> by default. To <i>disable</i> the dual-band feature for these networks, click the slide button.			
Enabled (Appears on the Guest and Video pages only) To enable the Wi-Fi configuration, click the s				
Wi-Fi Configurat	ion section			
SSID	(<i>Optional</i>) Customize the wireless network ID. This field cannot contain quotes (") or back slashes (\) but can contain most other special characters. It is recommended that this ID be no more than 32 characters.			



Field Name	Description
Password	Enter the passphrase for this connection. To show the key characters, click the Show/Hide icon (\textcircled{O}). This field cannot contain the following characters: "\(); & <> but spaces are allowed.
Encryption	Select the encryption protocol (mode and cypher) for this connection. Options are None and WPA2 Personal (PSK + CCMP). The default is WPA2 Personal (PSK + CCMP).
Broadcast SSID	This option is <i>enabled</i> by default. To <i>hide</i> the SSID from end users, click the slide button .
Client Isolation	This option is <i>disabled</i> by default for the Primary and Video networks and <i>enabled</i> for the Guest network. To change this setting, click the slide button .

Mesh

On this page, you can configure WiFi options for your mesh network.

1. In the left menu, click WiFi > Mesh. The following page appears.

St	MART/RG°	-	Q Searc	ch		A C
Ð	Dashboard		Mesh W	/iFi		
8	Network	>		Mark Canfinger		
(î:	WiFi	*		Mesh Configurati	on	
	Status Scan Radios	,		Enable 2.4Ghz Mesh Backhaul		
	Networks Mesh			Maximum Mesh Hops	0	•
	Clients	-		man management		van and an and and and and and and and an

- 2. To enable the 2.4 GHz mesh backhaul feature, click the slide button next to Enable 2.4Ghz Mesh Backhaul.
- 3. (Optional) In the Maximum Mesh Hops field, select the maximum number of hops allowed for the mesh network. Options are 1 3 and Unlimited. The default is Unlimited.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.



Clients

On this page, you can view information about the clients connected to the network via wireless interfaces.

In the left menu, click WiFi > Clients. The following page appears, listing the clients currently connected to your network.

SMART/RG*	=	Q Se	arch							≜ C	🕀 🙁 Admin
🔁 Dashboard		Wi-Fi (Clients								
Retwork	>	Cline									
🗢 WiFi	~	Clier	nts								
Status			HOSTNAME	BAND	SSID	SNR	RX RATE	RX PACKETS	TX RATE	TX PACKETS	OUI
Scan		1	android-86f5142151551f3b	2.4G	SmartRG-5700	43	12.0	264	43.0	51	HTC Corporation
Radios	>										



MAC Filtering

On this page, you can configure whether wireless clients are allowed to access the wireless networks of the gateway.

1. In the left navigation bar, click WiFi > MAC Filtering. The following page appears, showing the Primary tab.

SN	1ART/RG°	=	Q Sea	rch					C	۲	
Ð	Dashboard		Wi-Fi N	IAC Filtering							
器	Network	>		Wi-Fi Networks							
(î:	WiFi	•		WI-FI Networks							
	Status				_						
	Scan			Primary		Gue	st		Video)	
	Radios	>									
	Networks										
	Mesh			Primary 2.4GHz	Filtering						
	Clients										_
	MAC Filtering			Enabled							
	Advanced			Enabled							
	Devices	>		Mode	Whitel	st					
Ø	Services	>			Wincer	50					
0	Admin	>		MAC address list	No MA	Cs selected					
							+ Add MA	C manually			
				Primary 5GHz Fil	ltering						
				Enabled							
				Mode	Whitel	st			•		
				MAC address list	No MA	Cs selected			•		
							+ Add MA	C manually			

- 2. Click the button for the network for which you want to configure whitelist and blacklist addresses.
- 3. To enable filtering, click the slide button next to Enabled.



- 4. Select the Mode. Options are:
 - Blacklist: Disable wireless MAC address filtering.
 - Whitelist: Allow the wireless clients in the MAC Address list to access the wireless network. This is the default. Note: For this option to work, you must add at least one MAC address to this page.
- 5. To add a MAC Address to the filter list:
 - a. In the filtering section for the band you want to configure, click the Add MAC manually button below the MAC address list field. The Add MAC Address dialog box appears.

Add MAC Address		2
MAC Address		
Label		
Label		
	Close	Save changes

- b. Enter the MAC Address of the wireless client.
- c. (Optional) In the Label field, enter the name that you want displayed to your users.
- d. Click Save changes to save the address to the list. You are returned to the Wireless MAC Filtering page.
- 6. To change the label of a MAC address:
 - a. Below the MAC address list field, click Add/change MAC label. The Add/Change Label dialog box appears.

dd / Change Label		>
MAC Address		
Select MAC		•
Label		
Label		
	Close	Save changes
	Close	Save change

b. In the MAC Address field, select the MAC address that you want to change.



- c. In the Label field, enter the new label.
- d. Click Save changes. You are returned to the Wi-Fi MAC Filtering page.
- 7. Click the Apply button in the Pending changes... dialog box to save your settings.

Advanced

On this page, you can configure advanced WiFi options for the gateway.

1. In the left menu, click WiFi > Advanced. The following page appears.

SM	IART/RG°	=	Q Sea	arch 🌲 C 🖨
2 20 (Dashboard		Advan	iced Wi-Fi
*	Network	>		External WPS Button
، ا	WiFi	~		External WF3 Button
5	Status			Enabled
2	Scan			

- 2. To disable the physical WPS button on the outside of the gateway, click the slide button next to Enabled.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.



Devices

In this section, you can configure and manage the devices connected to your gateway. You can group and manage LAN devices as well as Intellifi mesh network devices.

Intellifi Devices

On this page, you can view the Intellifi mesh devices connected to the network.

Note: To extend the network, you can connect a satellite to a satellite.

1. In the left menu, click Devices > Intellifi Devices. The following page appears showing a diagram of the connected devices.

If a device is connected via wireless, the WiFi band appears as the name instead of LAN or WAN. The device colors identify the connection status. The **Connection Status** legend at the top right of the page explains the colors. Below that legend is the **device identifier** legend, showing symbols for HUB, SATELLITE, PLC, and MOCA devices.

There are two views: the simple view (the default) and the detailed view. (The detailed view shows the IP addresses for each device.) This map refreshes every 10 seconds.

 Dashboard Dashboard Network WiFi Devices Intellifi Devices Connected devices. Network Topology Pause \$ set Services Services Services 	Admin	C B	•		Q Search	-	IART/RG*	SM
Network > WIFI > Devices Intellifi Devices Connected Devices SR905ac-5700 Device Groups Access Schedule	IR O WEAK	0 GOOD 0	Connection:		Intellifi Devices		Dashboard	Ð
Devices Network Topology Intellifi Devices Connected Devices Device Groups Access Schedule	PLC 💿 MOCA	SATELLITE	👫 нив	of your Intellifi® network and		э÷.	Network	00
Intellifi Devices Connected Devices Device Groups Access Schedule			\$			- 20	WIFI	(:-
Connected Devices SR905ac-5700 Device Groups Access Schedule	Settings	II Pause			Network Topology	~	Devices	۵
Device Groups Access Schedule LAN2 SGHZ							Intellifi Devices	
Access Schedule LNN2 SCHZ				SR905ac-5700			Connected Devices	
LAN2 SGHZ				(Ala			Device Groups	
Services			z	LAN2 SGHZ			Access Schedule	
)			>	Services	Ø
Admin > Kadamo7390w10 F8:1F:32-D3:04:2C			3:04:2C	kdadamo7390w10 F8:1F:32:D3:0		5	Admin	0

- 2. To switch between the simple view and the detailed view:
 - a. Click the Settings button at the top right of the Network Topology section. The Topology Settings diagram box appears.
 - b. Click the slide button below Show Detailed View.
 - c. Click Save Changes.
- 3. To change the refresh interval:
 - a. Click the Settings button at the top right of the Network Topology section. The Topology Settings diagram box appears.



- b. In the **Refresh Interval** field, select the new interval. Options are **10 seconds** to **1 minute**. The default is **10 seconds**.
- c. Click Save Changes.
- 4. To pause the traffic with the Intellifi network, click Pause to the right of the Network Topology heading. The Pause button changes to a Play button. Click the Play button to restart traffic.
- 5. To view details of a device, click the device label. The **DEVICE DETAILS** pane appears.

You can edit the host name, click the IP address to log into the device, or click Internet Access to pause access to this device.

6. When finished, close the pane.

Accessing Device Information

From the SR905ac gateway GUI, you can view the details and configure some of the settings on your satellite devices.

Note: Only the Device Details pane and the Internet Access pane are available for devices communicating via wireless. The other panes (Wi-Fi Overrides, Interface Statistics, and Advanced) are available when a device is connected via Ethernet cable to the Intellifi controller (SR905ac gateway).

- 1. Log into your SR905ac gateway and click the View Intellifi topology button at the top right.
- 2. Click the label for the device you want to work with. The device information pane appears to the right.
- 3. Do any of the following:
 - View details of a device
 - View connection details
 - Pause Internet access for a device

Viewing Device Details

To view the device's host name, MAC address, IP address, and uplink type, click the device label in the topology diagram and then click **DEVICE DETAILS**.



DEVICE DETAILS	~
Hostname	
kdadamo7390w10	
MAC Address	
C8:F7:50:B4:61:C1	
IP Address	
192.168.65.187	
CONNECTION DETAILS	>
III INTERNET ACCESS	>

You can edit the host name or click the IP address to log into the device and view status and statistics.

Viewing Connection Details

To view the connection details, click CONNECTION DETAILS. The transmission rates and signal data are shown.

小 CONNECTION DETAILS	<
Rx Phy Rate	
6 mbps	
Tx Phy Rate	
150 mbps	
Signal	
-55 dBm	
SNR	
41 dB	



Pausing Internet Access

You can halt a device's access to the Internet for a specific amount of time.

- 1. Click INTERNET ACCESS to expand the pane.
- 2. Click the Pause button. The Set Timeout(ms) field appears.
- 3. Select a time period. Option are 15 minutes 1 day.
- 4. Click the Pause button below the field. The Play button becomes active.
- 5. Close the device details pane.

Connected Devices

This page displays a list of devices connected to the LAN.

Note: Before you can assign a device to a group, you must configure an access schedule, then configure a device group, and finally assign the schedule to the group.

Warning: Pausing access for LAN devices not only restricts access to the Internet but LAN access as well. This in turn prevents you from logging in to the SmartRG gateway to make changes from any LAN clients included in the pause. With this in mind, users are strongly advised against pausing all LAN devices at the same time. Instead, exclude at least one browser-equipped LAN device from the Device Group to ensure that a means to modify access schedules, device groups and timeout periods is preserved.

1. In the left menu, click Devices > Connected Devices. The following page appears.

SMART/RG°	=	Q Se	earch					. ↓ C	# 🙎 Admin
🙆 Dashboard		Conne	ected Devices						
Network	>								C Clear Inactives
😴 WiFi	>	Dev	vices						Clear Inactives
Devices	~		HOSTNAME -	INTERFACE	IP ADDRESS	MAC	oui	LAST SEEN	ACTIONS
Intellifi Devices Connected Devices		1	android-86f5142151551f3b	wifi5g	192.168.65.146	00:EE:BD:A0:C8:A5	HTC Corporation	03s	0
Device Groups Access Schedule		2	kdadamo7390w10	lan2	192.168.65.187 🗸	C8:F7:50:B4:61:C1	Dell Inc.	03s	
		~~~~							

2. To refresh the list to show only active devices, click the Clear Inactives button (Clear Inactives to the right of the table title.



#### 3. To edit a device host name:

a. Click the Edit icon () to the right of the entry that you want to edit. The Edit device dialog box appears.

Edit Device	2
Hostname	
android1	

- b. In the Hostname field, enter a descriptive name for the device.
- c. Click Save changes.
- 4. To pause access for a device temporarily:
  - a. Click the Pause icon (^(U)) to the right of the device for which you want to halt access. The Pause internet access dialog box appears.

Set timeout? (ms)	•

- b. In the Set timeout field, select how long you want access paused. Options are None, 15 60 minutes, 2-8 hours, and 1 day.
- c. Click Save changes.
- 5. To restart access, click the Play icon (
  ) to the right of the line item for which you wish to resume Internet access. The

Pause icon (m) re-appears.



## **Device** Groups

On this page, you can create device groups, assign devices to groups, pause access for devices, delete groups

**Note:** Before it is possible to assign a device to a group, configuring an access schedule is required first, then configure a device group, and finally assign the schedule to the group.

Warning: Pausing access for LAN devices not only restricts access to the Internet but LAN access as well. This in turn prevents you from logging in to the SmartRG gateway to make changes from any LAN clients included in the pause. With this in mind, users are strongly advised against pausing all LAN devices at the same time. Instead, exclude at least one browser-equipped LAN device from the Device Group to ensure that a means to modify access schedules, device groups and timeout periods is preserved.

1. In the left menu, click Devices > Device Groups. The following page appears.

SN	1art/rg°	=	٩	Search				٠	<b>(</b>	🕽 💽 Admin
æ	Dashboard		Dev	vice Gr	roups					+ Create group
묾	Network	>			and .			🛱 Acces		e 📕 Pause
ŵ	WiFi	>	U	Inassigi	ned			Acces	s schedul	e Pause
	Devices	•			HOSTNAME	MAC ADDRESS	IP ADDRESS			ACTIONS
	Intellifi Devices Connected Devices		1		kdadamo7390w10	C8:F7:50:B4:61:C1	192.168.65.187		0	•
	Device Groups Access Schedule		2		android-86f5142151551f3b	00:EE:BD:A0:C8:A5	192.168.65.146		0	•
					-					man

Note: You cannot delete or rename the unassigned (default) group but you can assign a schedule to it and pause/restart it.



#### 2. To add a new device group:

a. Click the **Create group** button (+ Create group) to the right of the page title. The Create Group dialog box appears.

Create Group		×
Name		
Group Name		
Access schedule		
None		•
	Close	Create

- b. In the Name field, enter a descriptive name for the device group.
- c. To assign a schedule to the device group, select the schedule in the Access schedule field.

**Note:** If you do not see the schedule that you want, go to the Devices > Access Schedule page and create it. Then, return to this page.

- d. Click **Create**. The new group appears at the top of the list and a **Delete group** button (
- 3. To add a device to a group:
  - a. Click the Assign button () at the far right of the device that you want to add to a device group. The Assign device to group dialog box appears.

Assign device to group		×
Group		
Select group		•
	Close	Save changes
	close	Save changes



b. In the Group field. select a group.

Note: If you do not see the group that you want, create it, following the steps provided above.

- c. Click Save changes.
- 4. To define a timeout period for a group:

Before proceeding, read the Warning above.

a. Click the Pause button (¹⁰) next to the section heading for which you want to withhold Internet access. The Pause Internet Access dialog box appears.

Pause Internet Access		×
Timeout (ms)		
		•
	Close	Save changes

- b. In the Timeout field, select the duration of the pause. Options are None, 15 60 minutes, 2 8 hours, and 1 day.
- c. Click Save changes.
- 5. To define a timeout period for a *device*:

Before proceeding, read the <u>Warning</u> above.

a. Click the Pause button () next to the device for which you want to withhold Internet access. The Pause Internet Access dialog box appears.



Pause Internet Access		×
Timeout (ms)		-
	Close	Save changes

- b. In the Timeout field, select the duration of the pause. Options are None, 15 60 minutes, 2 8 hours, and 1 day.
- c. Click Save changes.
- 6. To customize the host name for a device:
  - a. Click the 🌈 icon next to the device you want to customize. The Edit Device dialog box appears.

dit Device		>
lostname		
Davids Laptop  Į		
	Close	Save changes

- b. Enter the desired host name.
- c. Click Save changes.



#### 7. To delete a device group:

a. Click the **Delete group** button (**Figure**) at the top of the device pane. The **Delete Group** dialog box appears.

Delete Group		>
Group		
Default EDT		•
	Close	Delete

- b. In the Group field, select the group to be deleted.
- c. Click Delete. The device list on the Device Group page refreshes.
- 8. Click the Apply button in the Pending changes... dialog box to save your settings.

### Access Schedule

On this page, you can configure the access schedules that are needed to control access for LAN device groups.

Make sure that the time zone is set correctly for this gateway before configuring an access schedule. You can access the Timezone setting on the Admin > Time page in the GUI. Instructions are provided in the Time topic.

Warning: Pausing access for LAN devices not only restricts access to the Internet but LAN access as well. This in turn prevents you from logging in to the SmartRG gateway to make changes from any LAN clients included in the pause. With this in mind, users are strongly advised against pausing all LAN devices at the same time. Instead, exclude at least one browser-equipped LAN device from the Device Group to ensure that a means to modify access schedules, device groups and timeout periods is preserved.



1. In the left menu, click **Devices** > Access Schedule. The following page appears.

SI	MART/RG°	=	<b>Q</b> Se	arch		<b>≜ C</b>	<b>e e</b>
Ð	Dashboard		Acces	s Schedule			
묾	Network	>					
Ŷ	WiFi	>		Schedule Cor	nfiguration	+ Add	schedule
	Devices	~		Schedules	No schedule selected	•	
	Intellifi Devices						
-	Cananctad Davison						

- 2. To create an access schedule:
  - a. Click the Add schedule button at the top right. The Create access schedule dialog box appears.

reate access schedule	e	
Name Enter name		
	Save changes	Close

b. Enter a descriptive name for the new schedule and click **Save changes**. Additional fields appear on the Access Schedule page for configuring blocked access time for every day or for specific days. The **Delete schedule** button



appears at the top right of the pane.

	Access Schedule - Default EDT																								
	[	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	10	20	21	22	23
	Monday	•		-	5	-	5	0	,	0				12	15	14	15		17	10	15	20	21		25
	Tuesday																								
	Wednesday																								
	Thursday																								
	Friday																								
	Saturday																								
	Sunday																								
	Daily Pause T	ime	s																						
	09:00 - 10:00						09	:00	- 10	):00						09:	00 -	10	:00						
M	onday Pause	Tim	es																						
	09:00 - 10:00	)					09	:00	- 10	0:00						09:	00	10	:00						
T	Tuesday Pause Times																								
	09:00 - 10:00	)					09	:00	- 10	0:00						09:	00 -	10	:00						
W	ednesday Pau	se	Time	es							-			<u> </u>	~~~		-								

3. Enter start and end times in the fields below the **Pause Times** labels. Use 24-hour format. The separating colon is added for you as you type the numbers.

The entered time periods are shown in **red** on the grid in whole-hour blocks only. When times are entered in the **Daily Pause Times** fields, that period changes to **red** for *every* day.

For example, to prevent access between 2 am and 3 am, enter "0200" in the first (start) field and "0259" in the second (end) field for either every day (daily) or specific days. The grid refreshes to show that access is blocked for the 2:00 hour.

If you enter "0300" in the second field, a 2-hour block is selected in the grid, from 2:00 - 4:00 am.

The maximum number of blocked periods allowed per day is 3.

To add another blocked period for the same day, enter values in the 2nd and 3rd time fields.

Example of a 1-hour block (entered as 02:00 to 02:59)



	0	1	2	3	4	5	6	7	8
Monday									
Tuesday									
Wednesday									
Thursday									
Friday									
Saturday									
Sunday									

Example of a 2-hour block (entered as 02:00 to 03:00)

	0	1	2	3	4	5	6	7	8
Monday									
Tuesday									
Wednesday									
Thursday									
Friday									
Saturday									
Sunday									

- 4. To change a schedule, select it in the Access Schedule field and modify the fields.
- 5. To delete a schedule, select it in the Access Schedule field and click the Delete schedule button ( Delete schedule ) at the top right.

Note: If you delete a schedule that is assigned to a device group, it is removed from the device group configuration.

6. Click the Apply button in the Pending changes... dialog box to save your settings.



# Services

In this section, you can configure the various services for the network including UPnP, TR-069, SNMP, hosts, DDNS, and others.

## **UPNP**

On this page, you can manage the UPnP (Universal Plug and Play) service so that third-party devices on the LAN that support this standard can connect. Common devices include gaming consoles, IP cameras, printers, and so on.

1. In the left menu, click Services > UPNP. The following page appears.

SMART/RG°	=	Q Search
🙆 Dashboard		UPNP
Hetwork	>	UDND Configuration
🗢 WiFi	>	UPNP Configuration
Devices	>	Enabled
Services	~	
UPNP		Enable NAT-PMP

- 2. To disable UPnP, click the slide button to the right of Enabled.
- 3. To disable the automatic configuration of NAT settings, click the slide button to the right of Enable NAT-PMP.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.



## DLNA

On this page, you can configure the DLNA (Digital Living Network Alliance) server software.

Note: You must reboot the gateway to implement any changes made on this page.

1. In the left menu, click Services > DLNA. The following page appears.

SN	MART/RG°	=	Q Sear	ch		٠	<b>C</b> #				
æ	Dashboard		DLNA								
器	Network	>		DI NA Configurat							
ĉ	WiFi	>		DLINA Configurat	DLNA Configuration						
۵	Devices	>		Enabled							
O	Services	~									
	UPNP			Server name	SR905ac DLNA Server		0				
	DLNA										

- 2. To enable this option, click the slide button to the right of Enabled.
- 3. (Optional) In the Server name field, enter a descriptive name for this network that end users will see.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

## TR-069 Configuration

On this page, you can configure the gateway with details about the management server to which this gateway will be linked.

Note: You must reboot the gateway to implement any changes made on this page.



SN	MART/RG°	=	Q Search			
8	Dashboard		TR-069			
*	Network	>		Samer Carfinnetia		
(:-	WiFi	>		Server Configuration	1	
۵	Devices	>		Enabled		
Ø	Services	~				
	UPNP DLNA			Management server URL	http://acs.smartrg.com/	
	TR-069 SNMP			Inform interval (secs)	90	
	Hosts DDNS Cloud Storage			ACS username	admin	
	File Sharing Content Filter			ACS password		
0	Admin	>		Use base MAC as TR- 069 serial number	••	0
				Client Configuration		
				Allow solicit from ACS	••	
				TR-069 local port	7547	
				Connection request username	srg-tr069	
				Connection request password		
				Manual inform	A Inform now	
				Stun Server		
				Minimum keep alive	30	
				Maximum keep alive	3600	
				Server address	None	
				Server port	19302	
				Username	tr069_stun	

1. In the left menu, click Services > TR-069. The following page appears.

- 2. Fill in the fields, using the information in the following table. Values appear in the **Stun Server** section if that feature is configured for your system.
- 3. To connect to the ACS, in the Client Configuration section, click the Inform now button.
- 4. Management by ACS is *enabled* by default. To *disable* this option, click the **slide button** to the right of **Enabled** near the top of the page.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description
Server Configuration section	
Management server URL	Enter the URL of the management server such as http://youracsname.youracsprovider.com.



Field Name	Description
Inform interval (secs)	Enter the number of seconds for how often the gateway contacts the host server. The default setting is whatever interval is defined on your ACS.
ACS username	Enter the user name for the ACS.
	<b>Note:</b> If you clear this field and the <b>ACS Password</b> field, the ACS will populate these fields on the next inform.
ACS password	Enter the password for the ACS.
Use base MAC as TR-069 serial number	This option is <i>enabled</i> by default. The base MAC address of your device is used as the serial number. To use the device's actual serial number instead, click the <b>slide button</b> to the right which disables this option.
Client Configuration section	
Allow solicit from ACS	This feature is <i>enabled</i> by default. To <i>prevent</i> solicitation transactions from your ACS, click the slide button.
TR-069 local port	Enter the port number for the local port as defined for your ACS. The default is <b>7547</b> .
Connection request username	Enter the user name for requesting the connection.
	<b>Note:</b> If you clear this field and the <b>Connection request password</b> field, the ACS will re-populate these fields on the next inform.
Connection request password	Enter the password for requesting the connection.

#### Stun Server

Note: Values appear for these fields only when a STUN server is configured.

Minimum keep alive	The minimum time( in seconds)that the keepalive function should be active. Options are ${f 0}$ - Unlimited. The default is 30 seconds.
Maximum keep alive	The maximum time( in seconds)that the keepalive function should be active. Options are <b>0</b> - <b>Unlimited</b> . The default is <b>3600</b> seconds.
Server address	The assigned network address of the physical STUN server. An invalid address will produce an immediate on-page error message from the gateway. Maximum length is 256 characters.
Server port	The port number associated with your STUN server infrastructure. Options are <b>0</b> - <b>64435</b> . The default is <b>19302</b> .
Username	The user name by which the gateway accesses the STUN infrastructure. Maximum length is 256 characters. Special characters are allowed.

## SNMP

On this page, you can configure an SNMP service for the gateway.



SMART/RG*	≞	<b>Q</b> Search		<b>≜ C</b> ⊕
🙆 Dashboard		SNMP		
Retwork	>			
🗢 WiFi	>	SNMP Config	uration	
Devices	>	Enabled		
Services	~			
UPNP		Read communit	<b>y</b> Community	3
DLNA		Set community	Community (	
TR-069		Set community	Community	0
SNMP Hosts		System name	HeartOfGold	0
DDNS				
Cloud Storage		System location	office	0
File Sharing				
Content Filter		System contact	bofh@example.com	
Admin	>	Trap manager II	P IPv4/IPv6 Address	0
		Allow SNMP to contact device		

1. In the left menu, click Services > SNMP. The following page appears.

- 2. To enable the SNMP service, click the slide button to the right of Enabled.
- 3. Fill in the fields, using the information in the following table. All fields are optional.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description
Read community	Enter the SNMP community string for your network which allows read-only access.
Set community	Enter the SNMP community string for your network which allows read-write access.
System name	Modify the name of the gateway.
System location	Modify the default location of this service.
System contact	Enter the email address for the contact person.
Trap manager IP	Enter the IP address of the server where the SNMP trap manager is located.
Allow SNMP to contact device	This option is <i>disabled</i> by default. To <i>enable</i> this option, click the <b>slide button</b> .



### Hosts

On this page, you can configure the hostname of the gateway and add IP addresses for other hosts on the gateway. To begin, configure the host servers in the **Network** section.

1. In the left menu, click **Services** > **Hosts**. The following page appears.

SMART/RG°	=	<b>Q</b> Search		C	٠	9
Dashboard		Hosts				
Retwork	>	E	Edit Hostname			٦
🗢 WiFi	>					_
Devices	>	R	Router hostname SR905ac-5700			
Services	~					
UPNP						
DLNA				_		
TR-069		ł	Hosts	+ 4	dd host	
SNMP			# IPV4/IPV6-ADDRESS HOSTNAME(S)		ACTION	s
Hosts						

- 2. To add a host:
  - a. Click the Add Host button to the right of the Hosts section heading. The Add Host dialog box appears.

Add Host		×
IPv4/IPv6 address		
IP Address		
Hostnames		
Add hostname		
	Close	Save changes

b. In the IPv4/IPv6 address field, enter the host IP address.



c. In the Hostnames field, enter the host name and press Enter or Tab. The name is added and the cursor moves to a new Add hostname entry field. To add more hosts, repeat this step as needed.

Note: No spaces are allowed.

You can also delete names from this field by clicking the X next to the name.

- d. Click Save changes.
- 3. To edit the details of a host:
  - a. Click the Edit icon () next to the host that you want to edit. The Add/Edit Item dialog box appears.
  - b. Modify the fields as needed.
  - c. Click Save changes.
- 4. To delete a host, click the Delete icon (戻) next to the host that you want to delete.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

### DDNS

On this page, you can configure the DDNS settings for the gateway.

Dynamic DNS allows remote access the router from the Internet using a domain name instead of an IP address. An account on a DDNS service provider is required to implement this feature.

1. In the left menu, click Services > DDNS. The following page appears.

SMART/RG	=	<b>Q</b> Search					<b>≜ C</b> ∉	Admin
🙆 Dashboard		DDNS						
Retwork	>							
🗢 WiFi	>	DDNS (Dynar	nic DNS)					+ Add
Devices	>	NAME	DOMAIN NAME	USERNAME	PASSWORD	SHOW PASSWORD	USE HTTPS	ACTIONS
						-		

- 2. To add a dynamic DNS server:
  - a. Click the Add button to the right of the DDNS (Dynamic DNS) section heading. The Add / Edit Item dialog box appears. New server definitions are enabled by default.



Add / Edit Item			×
Enabled			
••			
Name			
Name			
DNS Provider			
Select or enter provider			•
Domain name			
Domain name			
Username			
Username			
Password			
Password			۲
Use HTTPS			
	Close	Save chan	ges

- b. Fill in the fields, using the information in the table below.
- c. Click Save changes.
- 3. To edit the details of a server:
  - a. Click the Edit icon () next to the server that you want to edit. The Add/Edit Item dialog box appears.
  - b. Modify the fields as needed, using the information in the table below.
  - c. Click Save changes.
- 4. To delete a server, click the **Delete** icon ( ) to the right of the server that you want to delete.
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description
Enabled	New server definitions are <i>enabled</i> by default. To <i>disable</i> a configuration, click the slide button.
Name	Enter a descriptive name for this entry.
DNS Provider	(Optional) Select or enter the DNS provider.



Field Name	Description
Domain name	Enter the URL or name of the domain.
Username	Enter the user name required to access the domain.
Password	Enter the password required to access the domain. To display the password, click the Show/Hide icon (③).
Use HTTPS	(Optional) To enable HTTPS security, click the slide button.

# Cloud Storage

On this page, you can configure access to a cloud storage account. Cloud storage is supported by box.com.

To create an account, click the Cloud Storage by box.com button at the top of this page.

Warning: To link a box.com account with this gateway, enable the BOX share on the Services > File Sharing page first. Then return to this page and enter the related credentials. If you don't follow this sequence, you may have to perform a factory reset (FRESET) of the gateway.

1. In the left menu, click Services > Cloud Storage. The following page appears. The connection status for existing cloud storage accounts is displayed at the bottom of the page.

S	MART/RG°	=	Q Sear	Q Search			<b>(</b>	2
Ð	Dashboard		Cloud S	itorage				
묾	Network	>						
(:	WiFi	>		Cloud Storage Cor	nfiguration	Cloud Store	age by box.com	
	Devices	>		Enabled				
O	Services	~						
	UPNP			Username	Username			
	DLNA							
	TR-069			Password	Password	۲		
	SNMP							
	Hosts			Connection status	STOPPED			
	DDNS		-				Andre anot	

- 2. To *enable* cloud storage, click the **slide button** to the right of **Enabled**.
- 3. In the Username field, enter the user name for accessing your cloud storage account.
- In the Password field, enter the password for accessing your cloud storage account. To display the password, click the Show/Hide icon (
- 5. Click the Apply button in the Pending changes... dialog box to save your settings.

# File Sharing

On this page, you can configure network settings and shares (on box.com) settings for sharing files.



Warning: To link a box.com account with this gateway, enable the BOX share on this page *first*. *Then* go to the Services > Cloud Storage page and enter the related credentials. If you don't follow this sequence, recovering your device may require a factory reset (FRESET) of the gateway.

To create an account, click the Cloud Storage by box.com link at the bottom of this page.

1. In the left menu, click Services > File Sharing. The following page appears. This feature is disabled by default.

SMART/RG°	=	<b>Q</b> Search		٠	C	۲
🙆 Dashboard		File Sharing				
Hetwork	>	Share Conf	ïguration			
🗢 WiFi	>					
Devices	>	Enabled				
Services	~					
UPNP		Network nam	WORKGROUP			
DLNA TR-069		Device name	SR905ac			
SNMP Hosts		Description	SmartRG SR905ac Gateway			
DDNS						
Cloud Storage		Username	samba-user			
File Sharing Content Filter		Password		0		
Admin	>					
		Share Mod	es			
		USB1	Disabled	-	•	
		USB2	Disabled		·	
		BOX	Disabled		•	
			Configure Box.com	cloud stora	ige	

- 2. To enable file sharing, click the slide button to the right of Enabled.
- 3. Modify the fields as needed, using the information provided in the following table.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

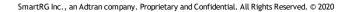
Field Name	Description				
Share Configuration section					
Network name Enter the name of the network used for file sharing.					



Field Name	Description
Device name	Enter the device name.
Description	Enter a brief description of the device.
Username	Enter the user name for your cloud storage account.
Password	Enter the password for your cloud storage account. To display the password, click the Show/Hide icon (
Share Modes see	ction
USB1 USB2 BOX	Select whether this share is disabled, read-only or read & write. The USB port to which you connect first is designated as USB1 and the other port is designated as USB2. The gateway uses either port equally. Options are <b>Disabled</b> , <b>Read only</b> , and <b>Read / Write</b> . The default is <b>Disabled</b> .
	Note: To use the BOX option, create a box.com cloud storage account first. To do so, click the Cloud Storage by box.com link near the bottom of the page.

# Content Filter

On this page, you can configure web content filtering, i.e., parental controls. If you enable **Network Protection** (and optionally the **Block ads** feature), approximately 20 thousand domains are blocked. The domains are gathered from a few crowd-sourced databases of sites known to serve malware, randomware, adware, etc. The feature is similar to pihole and adguard.



94



S	MART/RG°	=	<b>Q</b> Search		
Ð	Dashboard		Web Content Fi	ter	
묾	Network	>		Network Protection	
(îr	WiFi	>		Network Protection	
Q	Devices	>		Enabled	
Ø	Services	~			~~~
	UPNP			Block ads	
	DLNA			Definitions updated	None
	TR-069			Definitions appaared	None
	SNMP			IPv4 drop count	0
	Hosts			in the drop count	·
	DDNS			IPv6 drop count	0
	Cloud Storage				
	File Sharing Content Filter				
•	Admin	>		OpenDNS Family Sh	ield
				Enabled	

1. In the left menu, click **Services** > **Content Filter**. The following page appears.

- 2. To enable network protection, click the slide button to the right of Enabled.
- 3. Fill in the fields, using the information in the table below.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Field Name	Description		
Block ads	To <i>enable</i> the advertisement blocking feature, click the <b>slide button</b> .		
Definitions updated	The date and time when the filter definitions were last updated. If the definitions were never updated, "None" appears in the field.		
IPv4 drop count	The number of dropped packets on the IPv4 network.		
IPv6 drop count The number of dropped packets on the IPv6 network.			
OpenDNS Family Shi	ield section		
Enabled To <i>enable</i> the adult content blocking feature, click the slide button.			



# Admin

In this section, you can update firmware on your gateway, manage passwords, run diagnostics, and view the event log.

# Update

On this page, you can update the firmware of your SmartRG gateway. Software updates for SmartRG products are available for download in the ADTRAN Support Community via your Customer Dashboard.

Note: Following a firmware upgrade, the gateway reboots; rebooting takes approximately 6 minutes.

1. In the left menu, click Admin > Update. The following page appears, showing the Update History at the bottom of the page. The version number and build date are listed for each update.

SI	MART/RG	=	Q Search				
Ð	Dashboard		Firmware Update				
80	Network	301					
(1-	WIFI	88) (84)		Manual Update Current version: SMART/OS 10	88.1		
0	Devices	30					
p	Services	2		Upload Firmware Image	No file selected		Browse
D	Admin	~					
	Update						
	Configuration			Available Updates			
	Router Management			Last check: Thu Oct 22 11:42:3	2 PDT 2020		
	Passwords						
	Net Tools			o Updates available			Check for updates
	Event Log						
	Time						
	Operating Mode			Update History			
	Reboot			VERSION		BUILD DATE	
				10.8.4.1		Sun, Mar 29, 2020, 5:37 P	M
				10.8.3.1		Thu, Jan 23, 2020, 7:30 PN	

Note: The current firmware version is listed below the Manual Update heading.

- 2. To update firmware manually:
  - a. In the Manual Update section, click Browse. An Open dialog box appears.
  - b. Navigate to and select the firmware image file to be installed and then click **Open**. A progress bar and a **Cancel** button appears.
  - c. Click Start Upgrade. The Please wait popup appears, showing the Upgrading progress bar.

**Note:** If the failed message appears, click the message to clear it. Then try downloading the file again and repeating the above steps.



- 3. To check for available updates:
  - a. In the Available Updates section, click the Check for updates button. The CHECKING FOR UPDATES message appears. The Update status field refreshes to show a list of available updates or the 0 Updates available message.
  - b. If updates are available, click Install Updates. A confirmation message appears.



c. Click Yes. The installing message appears.

our device(s).

When the installation has finished, the gateway reboots.

# Configuration

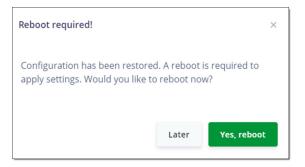
You can save your settings (back up) to a local computer, restore previously saved settings, and reset your device to its factory settings. It is recommended that you save your settings as a first step whenever you plan to change the configuration.



1. In the left menu, click Admin > Configuration. The following page appears.

SMART/RG°	=	Q Search A C D C
🕢 Dashboard		Router Configuration
Hetwork	>	Configuration Management
🗢 WiFi	>	
Devices	>	Save Configuration Restore Configuration Factory Default
💭 Services	>	
🔨 Admin	~	
Update		Save Configuration
Configuration		
Router Managemen	t	
Passwords		Download <b>Z</b> Download
Net Tools		backup
Event   of a		

- 2. To back up your settings:
  - a. Click the Save Configuration button.
  - b. Click the **Download** button. The zipped .tar file is saved (.gz.zip format) to your default download location and is named "backup" followed by the gateway model number and the date in *yyyy-mm-dd* format, e.g., backup-SR905ac-2020-10-15.tar.gz.
- 3. To restore settings saved previously saved:
  - a. Click the Restore Configuration button.
  - b. In the **Restore Configuration** section, click **Browse** to select a file to upload, e.g., backup-SR905ac-2020-10-15.tar.gz and then click **Open**. The Reboot required dialog box appears.



- c. Click Yes, reboot. The selected configuration is applied and the gateway reboots.
- 4. To restore the device to factory default settings:
  - a. Click the Factory Default button.
  - b. In the Factory Default section, click the Factory reset button. The factory reset warning dialog box appears.
  - c. Click Yes, reboot. The device is restored to default configuration.



# Router Management

On this page, you can enable or disable WAN HTTP and mobile management.

1. In the left menu, click Admin > Router Management. The following page appears.

SN	MART/RG°	III	Q search
Ð	Dashboard		Router Management
몲	Network	>	Number of the State
(•	WiFi	>	Management Configuration
۵	Devices	>	Hostname SR905ac-5700
Q	Services	>	
•	Admin	~	Stealth LED
	Update		
	Configuration		HTTP Configuration
	Router Management		
	Passwords Net Tools		Enable LAN HTTP
	Event Log	>	
	Time		Enable WAN HTTP
	Operating Mode Reboot		WAN HTTP Port 80
			WAN HTTP Restrict 0.0.0.0/0 Source
			HTTPS Configuration
			Enable WAN HTTPS
			WAN HTTPS Port 443
			WAN HTTPS Restrict 0.0.0.0/0 Source

- 2. Fill in the fields using the information in the table below.
- 3. Click the Apply button in the Pending changes... dialog box to save your settings.



Field	Description		
Management Config	uration section		
Hostname	(Optional) Enter a new name for the host.		
Stealth LED	This option <i>prevents</i> the LEDs on the gateway from shining. It is <i>disabled</i> by default. To <i>prevent</i> the LEDs from shining, click the slide button.		
Enable Mobile Management	his option is <i>enabled</i> by default. It allows or denies the gateway to be remotely managed. To <i>disable</i> mobile nanagement, click the slide button.		
HTTP Configuration	section		
Enable LAN HTTP	This feature is <i>enabled</i> by default. To <i>disable</i> LAN HTTP, click the slide button.		
Enable WAN HTTP	This feature is <i>disabled</i> by default. To <i>enable</i> WAN HTTP, click the slide button.		
WAN HTTP Port	( <i>Optional</i> ) Enter a different port number for the WAN. The default is <b>80</b> .		
WAN HTTP Restrict Source	(Optional) Enter the IP address for which you want access restricted.		
HTTPS Configuratio	n section		
Enable WAN HTTPS	This feature is <i>disabled</i> by default. To <i>enable</i> WAN HTTPS, click the slide button.		
WAN HTTPS Port	(Optional) Enter a different port number for the secure WAN. The default is 443.		
WAN HTTPS Restrict Source	(Optional) Enter the IP address for which you want access restricted.		



## Passwords

On this page, you can change the passwords used to access your device.

1. In the left menu, click Admin > Passwords. The following page appears.

SMART/RG° =		Q Sear	ch		÷ (	
Ð	Dashboard		Accoun	t Passwords		
80	Network	>				
(î	WiFi	>		Change Password		
۵	Devices	>		Username	admin	•
Q	Services	>				
0	Admin	~		Current password	Password	۲
	Update			New password	Password	٥
	Configuration			New password	Passworu	
	Router Management			Re-enter password	Password	۲
	Passwords			Re-enter password	Passworu	
	Net Tools					
	Event Log	>			Save changes	
	Time					

- 2. In the Username field, select the user password that you want to modify.
- 3. In the **Current password** field, either enter the current password for the selected user, or click in the field to select a stored password.

**Note:** If you click the **Manage passwords** link in the Sign In dialog box, the Settings window opens for your browser. You can change passwords there as well.

4. In the New password and Re-enter password fields, enter the new password. The password strength rating located below each of these fields refreshes automatically as each character is typed.

#### Weak password example



Change Password		
Username	admin	•
Current password		0
New password		٢
		Weak
Re-enter password	Password	۲
	Save changes	

#### Strong password example

Change Password		
Username	admin	•
Current password		0
New password		•
		Excellent
Re-enter password	Password	۲
	Save changes	

5. Click Save Changes. The new password takes effect immediately.

# Net Tools

On this page, you can ping a server and use the traceroute utility to display a packet's path over the IP network and measure route transit delays that may be present.



1. In the left menu, click Admin > Net Tools. The following page appears.

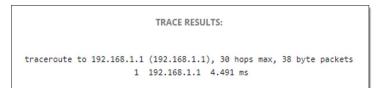
SN	MART/RG°	Ŧ
₽	Dashboard	
	Network	>
۰ ۵	WiFi Devices	>
D	Services	>
0	Admin Update	*
	Configuration	
	Router Management Passwords	
	Net Tools	
	Event Log Time	>
	Operating Mode	
	Reboot	

- 2. To ping a server, in the **Ping** section:
  - a. Enter an IP address or host name in the IP/Hostname field (such as 192.168.1.44).
  - b. Click the Start button in this section. The PING RESULTS appear.

PING RESULTS:						
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.						
64 bytes from 192.168.1.1: icmp_req=1 ttl=64 time=1.94 ms						
64 bytes from 192.168.1.1: icmp_req=2 ttl=64 time=1.93 ms						
64 bytes from 192.168.1.1: icmp_req=3 ttl=64 time=1.79 ms						
64 bytes from 192.168.1.1: icmp_req=4 ttl=64 time=1.81 ms						
64 bytes from 192.168.1.1: icmp_req=5 ttl=64 time=1.81 ms						
192.168.1.1 ping statistics						
5 packets transmitted, 5 received, 0% packet loss, time 4003ms						
rtt min/avg/max/mdev = 1.798/1.861/1.945/0.064 ms						



- 3. To trace a transmission, in the Traceroute section:
  - a. Enter an IP address or host name in the IP/Hostname field (such as 192.168.1.44).
  - b. Click the Start button in this section. The TRACE RESULTS appear.



# Event Log

On this page, you can view the event log (system log) and configure how the log entries are displayed.

1. In the left menu, click Admin > Event Log. The following page appears.

SMART/RG°	=	Q Search			🜲 🕻 🕀 🕒 Admin
🙆 Dashboard		Event Log			Q Search log messages
WiFi	>	Log Messages			
Devices	>	DATE	TYPE	SOURCE	MESSAGE
Services	>	Fri Apr 10 08:37:43 2020	user.crit	hotplug.iface.status	["Network wan6 action ifupdate"]
Admin	~	Fri Apr 10 08:38:01 2020	user.crit	hotplug.iface.wanstate	["INTERFACE wan6 DEVICE wan action ifupdate carrier 1"]
Update		Fri Apr 10 08:38:02 2020	user.crit	hotplug.ppa.iface	["INTERFACE wan6 DEVICE wan action ifupdate"]
Configuration Router Management		Fri Apr 10 08:38:03 2020	user.crit	hotplug.iface.status	["Network wan6 action ifupdate"]
Passwords		Fri Apr 10 08:38:28 2020	daemon.warn	odhcpd[3360]	["A default route is present but there is no public prefix on br-guest thus we don't announce a default route!"]
Net Tools Event Log	~	Fri Apr 10 08:38:28 2020	daemon.warn	odhcpd[3360]	["A default route is present but there is no public prefix on br-lan thus we don't announce a default route!"]
Log Settings		Fri Apr 10 08:38:28 2020	user.crit	hotplug.iface.wanstate	["INTERFACE wan6 DEVICE wan action ifupdate carrier 1"]

- 2. To filter the displayed messages:
  - a. Click the Search log messages button at top right. The Search log messages dialog box appears.
  - b. Enter a search string and click **Search**. The list refreshes to show the matching entries. The **Clear search** button appears next to the **Search log messages** button.
- 3. To clear the current filter, click the Clear search button at the top right.
- 4. To configure log settings, follow the "Configuring Log Settings" instructions below.

As new entries are added to the event log file, the list refreshes to display them.



#### **Configuring Log Settings**

On this page, you can enable remote logging.

1. In the left menu, click Admin > Event Log > Log Settings. The following page appears.

SMART/RG°	=	Q Search		
🙆 Dashboard		Log Settings		
Retwork	>	Log Configuration		
穼 WiFi	>	Log Configuration		
Devices	>	Enable remote		
<table-cell> Services</table-cell>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	logging		

2. (Optional) To activate remote logging, click the slide button next to Enable remote logging. Additional fields appear.

	RT/RG [®]	=	Pending changes × Please apply or cancel your changes before leaving the page!     Apply Cancel				C	٠	
Retwo		>		Log Configuration					
Devi		>		Enable remote logging	•				
🔨 Adm	n	*		Logging server IP	IPv4/IPv6 Address			(?	>
	te guration er Management			Log port	514			?	>
Pass Net ¹	vords ools			Log protocol	UDP		-		

- 3. In the Logging server IP field, enter the IP address (such as 192.168.1.44) of the syslog server to which the log messages should be sent. Log messages are sent to this server in addition to the default local destination.
- In the Log port field, enter or select the port number for the specified logging server. Options are 1 9999. The default is 514.
- 5. In the Log protocol field, select the protocol to be used for logging. Options are TCP and UDP. The default is UDP.
- 6. Click the Apply button in the Pending changes... dialog box to save your settings.



## Time

On this page, you can select a timezone and manage connections to the reliable clocking servers available on the Internet.

1. In the left menu, click Admin >Time. The following page appears. All fields on this page are optional.

S	MART/RG°	=	Q Search		
Ð	Dashboard		System Time		
器	Network	>	Time Con	onfiguration	٦
(;	WiFi	>	Time con	oniguration	
۵	Devices	>	Current tim	time Fri Apr 10 09:03:21 PDT 2020	
Ø	Services	>			
•	Admin	~	Timezone	e America/Vancouver 👻	
	Update		Time Serve	vers (NTP) 0.pool.ntp.org	
	Configuration				
	Router Management			1.pool.ntp.org	
	Passwords			1.001.110.018	
	Net Tools				
	Event Log	>		2.pool.ntp.org	
~~~~	Time				_

- 2. To change the time zone, in the **Timezone** field, select the appropriate zone.
- 3. To change or remove time servers, in the Time servers (NTP) section, modify or delete the addresses in the fields.
- 4. Click the Apply button in the Pending changes... dialog box to save your settings.

Operating Mode

On this page, you can select whether the gateway operates as a router or a wireless access point.



1. In the left menu, click Admin > Operating Mode. The following page appears.

SI	MART/RG°	=	Q Search		٠	C	4	
Ð	Dashboard		Operat	ing Mode				
器	Network	>		Mode Configuration	on.			
(î:	WiFi	>		Mode comiguration	011			
۵	Devices	>		Operating Mode	Router	•	0	
D	Services	>						
0	Admin	~		Intellifi Mode	Intellifi Controller	•	3	
	Update			Intellifi Mode Auto			(?)	
	Configuration			switch			0	
	Router Management							

2. To configure how this gateway should operate, in the **Operating Mode** field, select the appropriate setting. Options are **Router** and **Wireless Access Point**. The default is **Router**.

In **Router** mode, this device functions as a router between your ISP's WAN and your home network LAN. It provides firewall, NAT server, DHCP server, UPnP, DDNS, Cloud File Sharing and other services. Select this option if you do not currently have a router.

Warning: When you change this setting, a Warning message appears, stating that the gateway will reboot upon applying this setting.

 To configure this gateway as part of a mesh network, in the Intellifi Mode field, select the appropriate setting. Options are None, Intellifi Controller and Satellite. Satellite is only available when you select Wireless Access Point in the Operating Mode field. The default setting is Intellifi Controller.

In **Intellifi Controller** mode, this device also becomes the central control center for your Intellifi network. Select this option if you are deploying Intellifi mesh nodes to support WiFi coverage at this location.

4. The Intellifi Mode Auto switch feature is *enabled* by default. To *prevent* the gateway from automatically switching from the Intellifi Controller mode to the managed Satellite mode, click the slide button.

To learn more about Intellifi network configuration, refer to the "<u>How to set up an Intellifi mesh network (SR400ac)</u>" <u>How-To</u> <u>article</u> available in the ADTRAN Support Community.

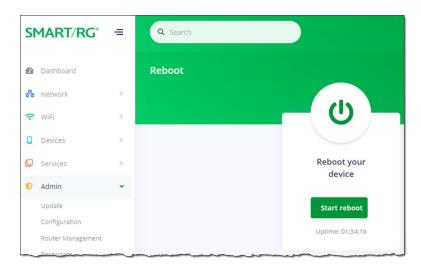
5. Click the Apply button in the Pending changes... dialog box to save your settings.

Reboot

On this page, you can reboot your device.

1. In the left menu, click Admin > Reboot. The following screen appears. The amount of time that the gateway has been connected is shown in the Uptime line below the Start reboot button.





2. Click the **Start reboot** button.

The restart confirmation dialog box appears, stating that rebooting takes approximately three minutes.

3. Click the Yes, reboot button. The Rebooting dialog box appears, showing the time remaining until completion. When your gateway is ready, the sign-in page appears.



Logging out

- 1. In the top right corner of the interface, click the profile name. The USER PROFILE pane appears.
- 2. Click Logout. The Sign in dialog box appears.



Appendix: Compliance Statements

FCC Interference Statement

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- 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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numrique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed an operated with a minimum distance of 20cm between the radiator and your body.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Caution! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

5GHz

5150-5250 MHz band is restricted to indoor operations only.



Revision History

Rev	Date	Description
2.2	January 2021	Updated to match SmartRG firmware release 10.8.8.1.
2.1	March 2020	Updated to match release 10.8.4.1.
2.0	January 2020	New screen captures and updated navigation paths reflect the GUI facelift for release 10.8.3.1. Related content was also updated.
1.1	June 2019	Updated to match release 10.7.1.1.
1.0	December 2018	Initial document release.