



Time Sensitive Information!

These Configuration Changes Must Be Applied
Ten Days Prior to Absolute VOICE Cut-Over

Cisco RV110(w) EOL, RV130(w) & RV215(w) Router
Configuration For Absolute VOICE Cloud Telephony Deployment
Document Version 2.0

May 15th, 2017

www.callabsolute.com

Table of Contents

1. Introduction
2. Firewall Verification Checklist
3. Add Absolute VOICE Services
4. Configure Bandwidth Management

Read Me!

1. These changes must be applied before client implements their Absolute VOICE hosted telephony solution.
2. If you are experienced with business class firewalls and routers, please have your IT staff/contractor perform these changes for you.
3. Please read this entire document before attempting to make any changes.
4. If you have questions about this document, you can call 800-955-6703 to schedule an appointment with one of our firewall support specialists. We will attempt schedule your appointment within 24- 48 hours of your call to us so please allow adequate time.
5. After changes are completed please let your client or Absolute VOICE Customer Support specialist know.
6. Once completed, an Absolute VOICE technician will be requesting access or a collaborative web session to verify settings prior to customer cut over.

Introduction

This document is for IT administrators and illustrates configuration changes required on Cisco RV110/130(w)/215(w) firewall & router appliances to support Absolute VOICE's cloud communications telecommunications platform. This document assumes a basic network deployment consisting of one internal LAN network containing the IP phones and one WAN network connected to the Internet. While we strongly recommend a dedicated network for VoIP traffic, the instructions below can be used for a “converged” network whereby both VoIP and non-VoIP traffic share one physical WAN network. With basic modifications (such as adding access rules for additional interfaces); this configuration can be extrapolated for other network layouts. The screenshots below may vary slightly from what is displayed while configuring the device depending on model software version. Setting values not mentioned may be left at default or changed as required for specific purposes.



Please call Absolute VOICE Customer Support at 800-955-6703 if you need any further information. Firewall changes can be in depth and you will need to schedule time with one of our specialists if you need assistance.

Firewall Checklist

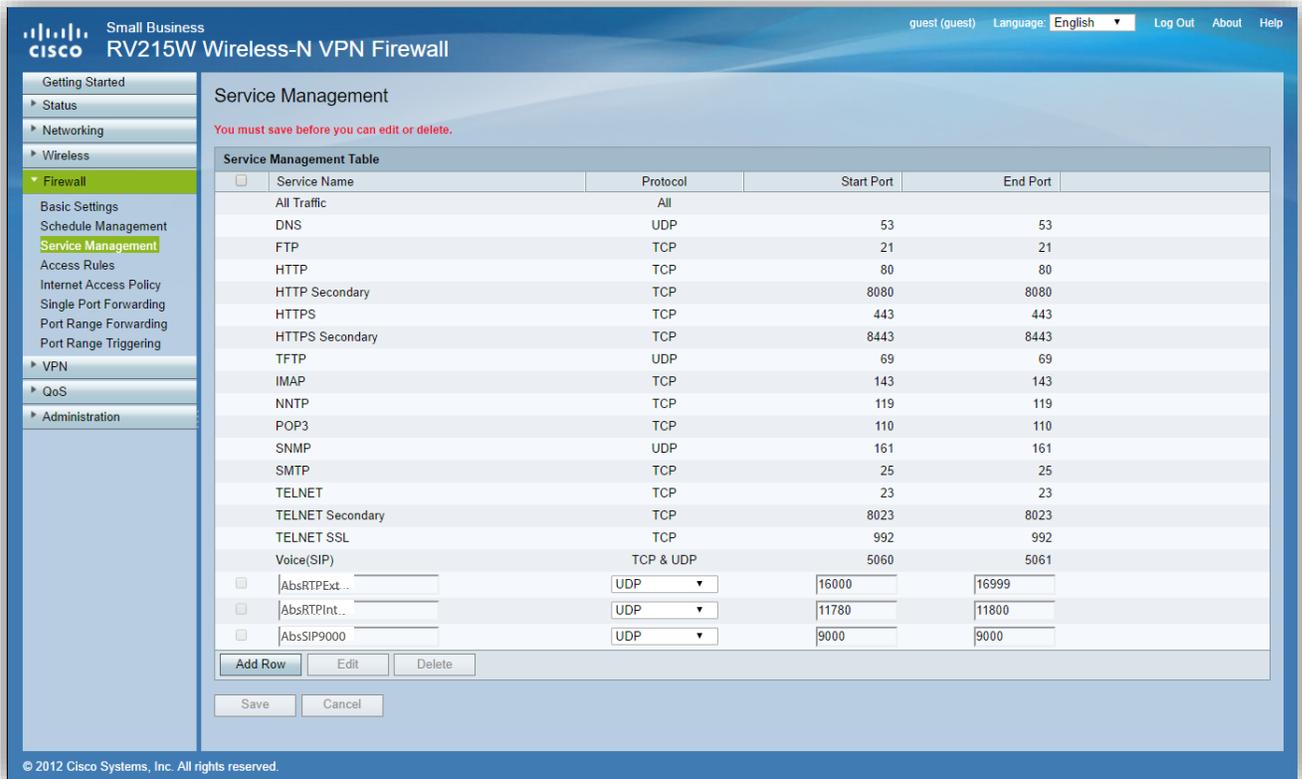
After applying the GUI configurations in this document, please take the appropriate screen shots to provide the firewall “verification” to Absolute.

Screen Shot #:	Configuration:	Completed:
1	QoS → Bandwidth Management Screen	

Add Absolute VOICE Services

Firewall → Service Management

- Add three services:
 - AbsRTPExt – UDP 16000 to 17999
 - AbsRTPInt – UDP 11780 to 11800
 - AbsSIP9000 – TCP&UDP 9000



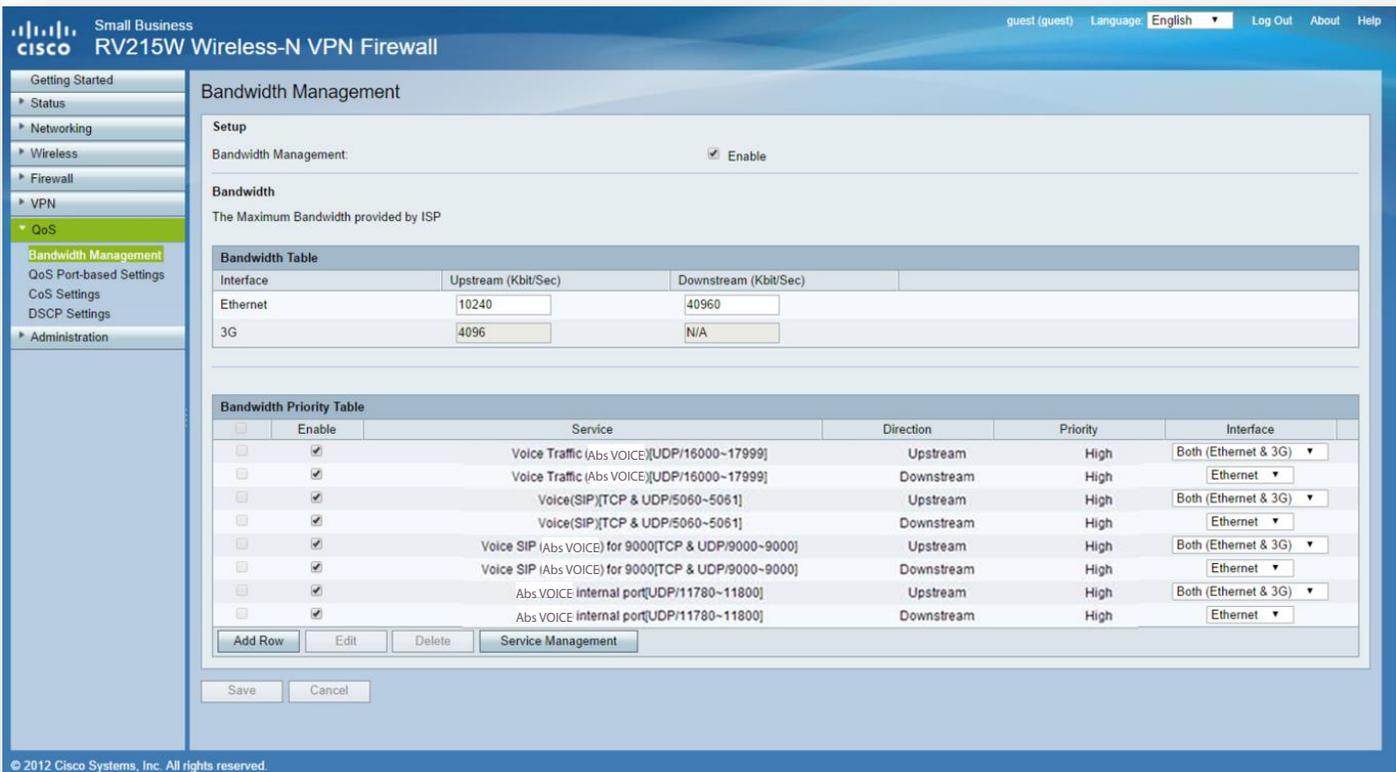
The screenshot shows the Cisco RV215W Firewall Service Management interface. The left sidebar contains navigation options: Getting Started, Status, Networking, Wireless, Firewall (selected), Basic Settings, Schedule Management, Service Management (highlighted), Access Rules, Internet Access Policy, Single Port Forwarding, Port Range Forwarding, Port Range Triggering, VPN, QoS, and Administration. The main content area is titled 'Service Management' and includes a warning: 'You must save before you can edit or delete.' Below this is a 'Service Management Table' with columns for checkboxes, Service Name, Protocol, Start Port, and End Port. The table lists various services like All Traffic, DNS, FTP, HTTP, etc. At the bottom, three new services are being added: AbsRTPExt (UDP 16000-17999), AbsRTPInt (UDP 11780-11800), and AbsSIP9000 (UDP 9000-9000). Buttons for 'Add Row', 'Edit', 'Delete', 'Save', and 'Cancel' are visible.

<input type="checkbox"/>	Service Name	Protocol	Start Port	End Port
<input type="checkbox"/>	All Traffic	All		
<input type="checkbox"/>	DNS	UDP	53	53
<input type="checkbox"/>	FTP	TCP	21	21
<input type="checkbox"/>	HTTP	TCP	80	80
<input type="checkbox"/>	HTTP Secondary	TCP	8080	8080
<input type="checkbox"/>	HTTPS	TCP	443	443
<input type="checkbox"/>	HTTPS Secondary	TCP	8443	8443
<input type="checkbox"/>	TFTP	UDP	69	69
<input type="checkbox"/>	IMAP	TCP	143	143
<input type="checkbox"/>	NNTP	TCP	119	119
<input type="checkbox"/>	POP3	TCP	110	110
<input type="checkbox"/>	SNMP	UDP	161	161
<input type="checkbox"/>	SMTP	TCP	25	25
<input type="checkbox"/>	TELNET	TCP	23	23
<input type="checkbox"/>	TELNET Secondary	TCP	8023	8023
<input type="checkbox"/>	TELNET SSL	TCP	992	992
<input type="checkbox"/>	Voice(SIP)	TCP & UDP	5060	5061
<input type="checkbox"/>	AbsRTPExt	UDP	16000	16999
<input type="checkbox"/>	AbsRTPInt	UDP	11780	11800
<input type="checkbox"/>	AbsSIP9000	UDP	9000	9000

Configure Bandwidth Management

QoS → Bandwidth Management

- Click the Bandwidth Management “Enable” check box.
- Enter the contracted WAN upstream and downstream band in Kbit/sec in the “Bandwidth Table.”
- Add each of the following services to the “Bandwidth Priority Table” to accommodate “Upstream” and “Downstream” of each service:
 - AbsRTPExt
 - AbsRTPInt
 - AbsSIP9000
 - SIP
- Each service should be added with the following:
 - Upstream and Downstream direction
 - Priority set to High
 - Click to Enable/Yes on **all** services



Small Business
Cisco RV215W Wireless-N VPN Firewall

guest (guest) Language: English Log Out About Help

Getting Started
Status
Networking
Wireless
Firewall
VPN
QoS
Bandwidth Management
QoS Port-based Settings
CoS Settings
DSCP Settings
Administration

Bandwidth Management

Setup

Bandwidth Management: Enable

Bandwidth

The Maximum Bandwidth provided by ISP

Bandwidth Table		
Interface	Upstream (Kbit/Sec)	Downstream (Kbit/Sec)
Ethernet	10240	40960
3G	4096	N/A

Bandwidth Priority Table						
<input type="checkbox"/>	Enable	Service	Direction	Priority	Interface	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice Traffic (Abs VOICE)[UDP/16000-17999]	Upstream	High	Both (Ethernet & 3G)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice Traffic (Abs VOICE)[UDP/16000-17999]	Downstream	High	Ethernet	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice(SIP)[TCP & UDP/5060-5061]	Upstream	High	Both (Ethernet & 3G)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice(SIP)[TCP & UDP/5060-5061]	Downstream	High	Ethernet	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice SIP (Abs VOICE) for 9000[TCP & UDP/9000-9000]	Upstream	High	Both (Ethernet & 3G)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Voice SIP (Abs VOICE) for 9000[TCP & UDP/9000-9000]	Downstream	High	Ethernet	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Abs VOICE internal port[UDP/11780-11800]	Upstream	High	Both (Ethernet & 3G)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Abs VOICE internal port[UDP/11780-11800]	Downstream	High	Ethernet	

Add Row Edit Delete Service Management

Save Cancel

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- Click “Save”

Document Revision History

Version	Reason for Change	Date
1.0 Draft	Initial Draft Document	September 14, 2016
1.1	Firewall Checklist added	March 17 th , 2017
2.0	Revised to include RV215w	May 15 th , 2017