



## VIEW Certified Configuration Guide

### Ruckus Wireless

Ruckus ZoneFlex 7962 Access Point

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Polycom, Inc.  
4750 Willow Road,  
Pleasanton, CA 94588  
<http://www.polycom.com>

## Introduction

Polycom's Voice Interoperability for Enterprise Wireless (VIEW) Certification Program is designed to ensure interoperability and high performance between SpectraLink Wireless Telephones and WLAN infrastructure products.

The products listed below have been thoroughly tested in Polycom's lab and have passed VIEW Certification. This document details how to configure the Ruckus ZoneFlex 7962 Access Point (AP) with SpectraLink Wireless Telephones.

## Certified Product Summary

|  |   |                    |
|--|---|--------------------|
| Manufacturer:                            | Ruckus Wireless: <a href="http://www.ruckuswireless.com">www.ruckuswireless.com</a> |                    |
| Approved models:                         | ZoneFlex AP 7962 †  |                    |
| Certified RF technology:                 | 802.11b   |                    |
| Radio:                                   | 2.4 GHz   |                    |
| Security :                               | WPA-PSK, WPA2-PSK   |                    |
| AP firmware version tested:              | 8.0   |                    |
| SpectraLink handset models certified: ** | e340/h340/i640  | 8020/8030          |
| SpectraLink handset software certified:  | 89.135 or greater   | 122.021 or greater |
| SpectraLink radio mode:                  | 802.11b   | 802.11b            |
| Maximum calls tested per AP:             | 10  | 10                 |
| Network topology:                        | Switched Ethernet (recommended)   |                    |

† Denotes products directly used in VIEW Certification testing.

\*\* SpectraLink handset models 8020/8030, e340/h340/i640 and their OEM derivatives are VIEW Certified with the WLAN hardware and software identified in the table. Throughout the remainder of this document they will be referred to collectively as "SpectraLink Wireless Telephones".

## Known Limitations

- ZoneFlex AP 7962 is VIEW Certified in 802.11b operating mode only, without a WLAN controller.
- 500Kb/s rate limiting must be enabled when phones are deployed in an environment with 802.11b data clients.
- ZoneFlex AP 7962 does support 802.11g protection mode.

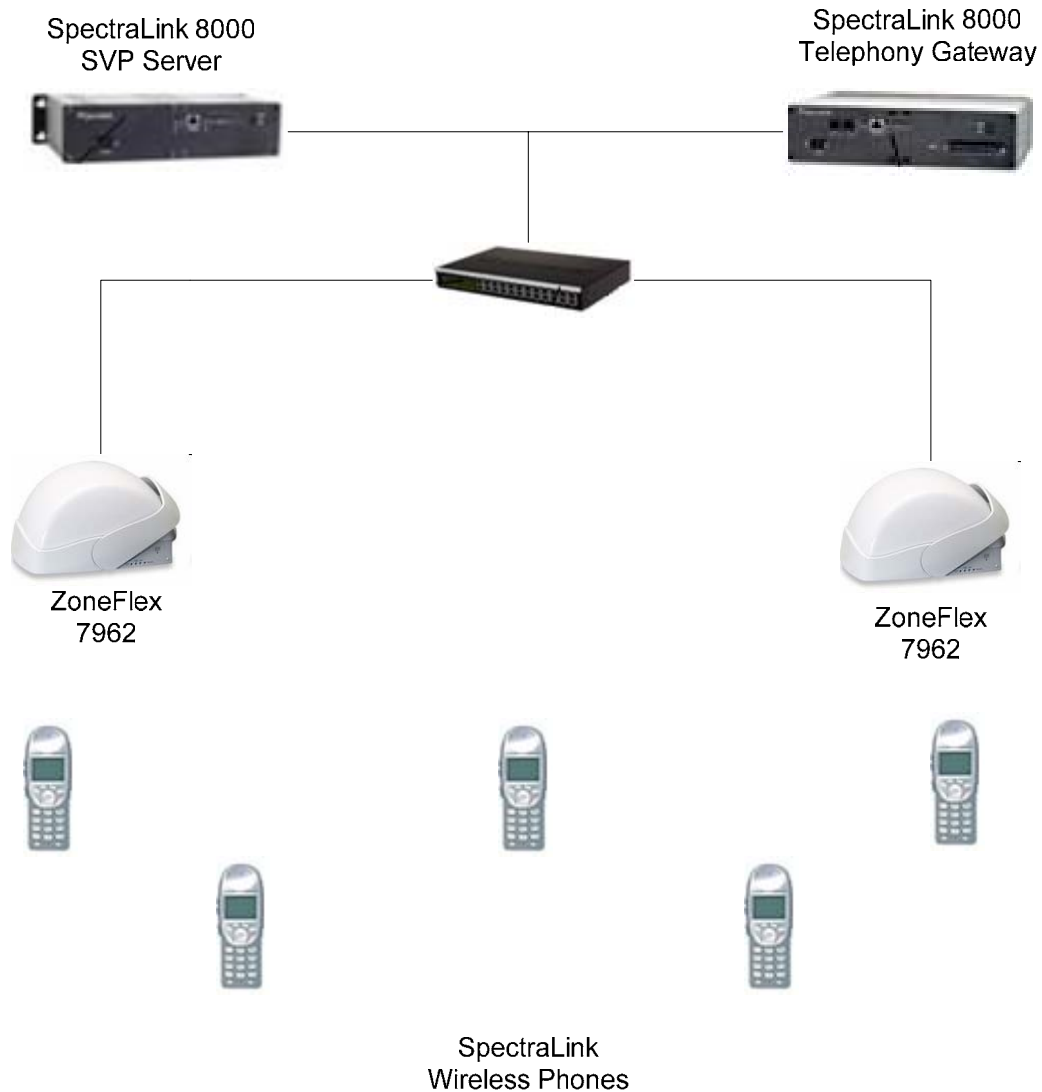
## Access Point Capacity and Positioning

Please refer to the Polycom [Deploying Enterprise-Grade Wi-Fi Telephony](#) white paper. This document covers the security, coverage, capacity and QoS considerations necessary for ensuring excellent voice quality with enterprise Wi-Fi networks.

For more detailed information on wireless LAN layout, network infrastructure, QoS, security and subnets, please see the [Best Practices Guide for Deploying SpectraLink 8020/8030 Wireless Telephones](#). This document identifies issues and solutions based on Polycom's extensive experience in enterprise-class Wi-Fi telephony, and provides recommendations for ensuring that a network environment is adequately optimized for use with SpectraLink 8020/8030 Wireless Telephones.

# Network Topology

The following topology was tested during VIEW Certification. It is important to note that these do not necessarily represent all “certified” configurations.



# AP Configuration Setup

The Ruckus AP is easy to configure. Enter the desired SSID name and encryption via Web Interface or SSH. SpectraLink voice is automatically recognized and prioritized.

## Log in to AP via web interface or SSH

Default IP = 192.168.0.1, Username = super, Password = sp-admin

## Set up SSID name and encryption

1. In the navigation pane under **Configuration**, click **Radio 2.4G**.
2. Click the **Wireless 1** tab.
3. In the **Wireless Network:** field, type a name for this wireless LAN for reference only.
4. For **Wireless Availability?** select the **Enabled** option.
5. For **Broadcast SSID?** select the option you prefer.
6. In the **SSID:** field, type the SSID name
7. For **Encryption Method:** select the desired mode from the drop-down list. SpectraLink handsets support WEP, WPA PSK and WPA2 PSK.
8. Click **Update Settings** to save the configuration.

The screenshot shows the Ruckus Wireless Admin interface in a Mozilla Firefox browser window. The browser's address bar shows the URL `https://192.168.0.1/index.asp`. The page title is "Ruckus 7962 Multimedia Hotzone Wireless AP". A "LOGOUT" button is visible in the top right corner. The main content area is titled "Configuration :: Radio 2.4G :: Wireless 1" and includes a navigation menu with tabs for "Common", "Wireless 1", "Wireless 2", "Wireless 3", "Wireless 4", "Wireless 5", "Wireless 6", "Wireless 7", and "Wireless 8". A "Need Help?" button is also present. The configuration settings for "Wireless 1" are as follows:

- Wireless Network:** Wireless 1
- Wireless Availability?**  Enabled  Disabled
- Broadcast SSID?**  Enabled  Disabled
- SSID:** 101
- Threshold Settings:**
- Rate Limiting:**
- Access Control:**
- Encryption Method:** WPA (dropdown menu)
- WPA Version:**  WPA  WPA2  WPA-Auto
- WPA Authentication:**  PSK  802.1x  Auto
- WPA Algorithm:**  TKIP  AES  Auto
- Passphrase:** 12345678

At the bottom of the configuration area, there are two buttons: "Update Settings" and "Restore previous settings".

## Enabling Rate Limiting

The ZoneFlex AP 7962 is VIEW Certified for 802.11b operation only, without a WLAN controller. In an environment with 802.11b data clients, it is required to enable rate limiting to ensure optimal voice performance.

1. In the navigation pane under **Configuration**, click **Radio 2.4G**.
2. Click the **Wireless 1** tab.
3. At **Rate Limiting** click **Edit Settings**.
4. For **Per Station Traffic Rate**, select **500 kbps link per station** from the **Downlink** and **Uplink** drop-down lists.

The screenshot shows the Ruckus Wireless Admin interface in Mozilla Firefox. The browser address bar shows `https://192.168.0.1/index.asp`. The page title is "Ruckus 7962 Multimedia Hotzone Wireless AP". The main configuration area is titled "Configuration :: Radio 2.4G :: Advanced Wireless Rate Limiting :: Wireless 1".

Under "Per Station Traffic Rate", both "Downlink" and "Uplink" are set to "500 kbps link per station".

Below this, there is a table titled "Maximum traffic rate on per station basis":

| Class       | Downlink / Uplink |                |               |
|-------------|-------------------|----------------|---------------|
|             | Rate (kbps)       | Ceiling (kbps) | Buffer (pkts) |
| Voice       | 100 / 100         | 128 / 128      | 10 / 10       |
| Video       | 100 / 100         | 400 / 400      | 25 / 25       |
| Best-Effort | 200 / 200         | 500 / 500      | 25 / 25       |
| Background  | 100 / 100         | 500 / 500      | 10 / 10       |

At the bottom of the configuration area, there are buttons for "Update Settings" and "Restore previous settings", and a link to "Go back to Wireless Configuration".