



WINS™: Wireless Interoperability & Network Solutions Cisco 7921/7925 Deployment for System Director 5.3 Cheat Sheet

The Cisco Wireless IP Phone provides effective mobile communication within an enterprise by extending advanced voice and unified communication capabilities through Cisco Unified Communication Manager. When deployed with the Meru Networks Wireless LAN, it enables users to stay in touch while roaming seamlessly throughout their facility.

Device Requirements

The following Cisco devices are supported:

- Cisco 7921
- Cisco 7925
- Cisco firmware version 1.4.3SR1.2

Configure the following for the phones:

- Lock each phone to a band of use:
 - Cisco 7921: 2.4 GHz or 5 GHz (5 GHz is strongly recommended)
 - Cisco 7925: 2.4 GHz or 5 GHz (5 GHz is strongly recommended)
- Enable Unscheduled Automatic Power Save Delivery (UAPSD) for each phone.

Meru Hardware and Software Requirements

Verify that you are using the following hardware and software requirements before starting configuration.

Hardware Requirements

Verify that you are using Meru AP332 or AP1020 devices.

Software Requirements

Verify that you are using System Director Release 5.3-50.

VLAN Recommendations

Configure a separate VLAN for the Cisco phones.

Radio and Band Requirements

Configure the radio and band requirements in System Director:

- Deployment (RF) band:
 - Cisco 7921: 2.4 GHz or 5 GHz (5 GHz is strongly recommended.)
 - Cisco 7925: 2.4 GHz or 5 GHz (5 GHz is strongly recommended.)

Make sure that the band configured in System Director matches the band set on the Cisco phone.

- Virtual Cell: On

Security Requirements

Configure the security profile to use an appropriate security mode for your network, such as WPA2 or WPA2-PSK.

ESS Profile Requirements

Configure the ESSID by creating an ESS profile. The ESS profile must use the configuration settings listed in the following table.

ESS Profile Setting (GUI)	ESS Configuration Value
Virtual Cell	On (default)
Virtual Port	Off
Beacon Interval	100 ms (default)
DTIM Period	2
SSID Broadcast	On
APSD Support Flag	On
Allow Multicast	Off
Expedited Forward Override	On
SSID Broadcast for Vport	Till-Association
BGN Supported Transmit Rates	11 and higher (depends on site RF environment) (Make sure that check boxes for rates 9 Mbps and lower are cleared.)
BGN Base Transmit Rates	11 Mbps
AN Supported Transmit Rates	12 Mbps and higher (depends on site RF environment) (Make sure that check boxes for rates 9 Mbps and lower are cleared.)
AN Base Transmit Rates	12 Mbps, 24 Mbps

QoS Requirements (Optional)

For System Director Release 5.3-50 or later, you can optionally create a QoS rule based on the source/destination address and network protocol from Cisco Call Manager. With Expedited Forward Override enabled, if the application (Call Manager, Asterisk, and so on) marks the packets with the appropriate QoS tag, you do not need to create a QoS rule.

Boot Script Requirements

No AP boot script is required for voice functionality.