

Ascom i62 Configuration Note to be used with Innovaphone PBX



Software Baseline

Meru

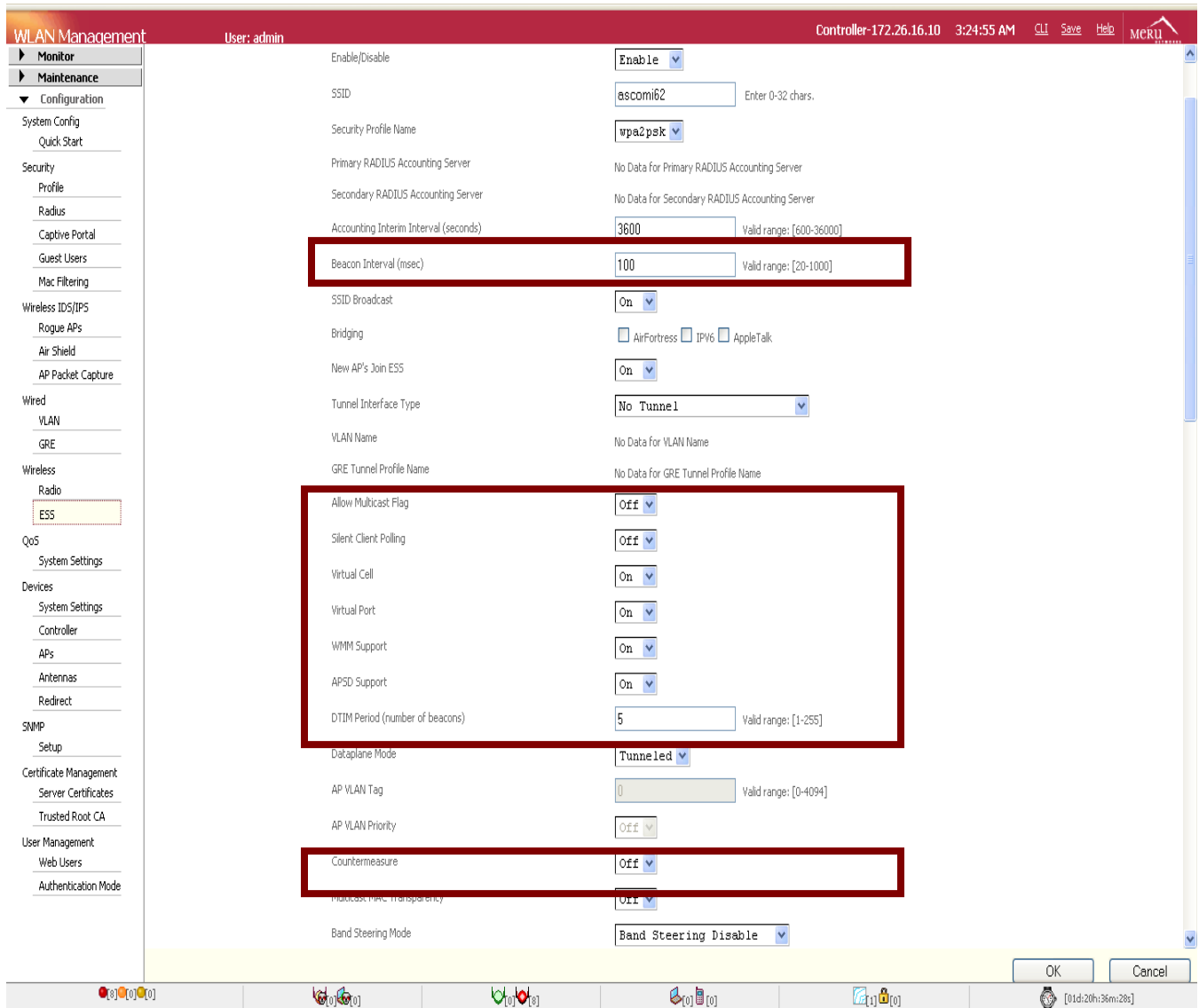
System Director 4.0-150 (MR3)

Ascom

i62 version: 2.2.17

Meru system (ESS) settings

The screenshot below illustrates how to set ESS profile for i62 deployments



The screenshot shows the Meru WLAN Management interface for an ESS profile. The following settings are highlighted with red boxes:

- Beacon Interval (msec):** 100 (Valid range: [20-1000])
- DTIM Period (number of beacons):** 5 (Valid range: [1-255])
- Countermeasure:** Off

Other visible settings include:

- Enable/Disable: Enable
- SSID: ascomi62 (Valid range: 0-32 chars)
- Security Profile Name: wpa2psk
- Primary RADIUS Accounting Server: No Data for Primary RADIUS Accounting Server
- Secondary RADIUS Accounting Server: No Data for Secondary RADIUS Accounting Server
- Accounting Interim Interval (seconds): 3600 (Valid range: [600-36000])
- SSID Broadcast: On
- Bridging: AirFortress, IPV6, AppleTalk (unchecked)
- New AP's Join ESS: On
- Tunnel Interface Type: No Tunnel
- VLAN Name: No Data for VLAN Name
- GRE Tunnel Profile Name: No Data for GRE Tunnel Profile Name
- Allow Multicast Flag: Off
- Silent Client Polling: Off
- Virtual Cell: On
- Virtual Port: On
- WMM Support: On
- APSD Support: On
- Dataplane Mode: Tunneled
- AP VLAN Tag: 0 (Valid range: [0-4094])
- AP VLAN Priority: Off
- Maccast MAC Transparency: Off
- Band Steering Mode: Band Steering Disable

Note: Make sure that the Virtual Cell and Virtual Port is turned **ON**. It is very important to enable UAPSD **ON**. Please make sure that Countermeasure is turned **OFF**. It is very important to set the Beacon Interval to **100** and DTIM Period to **5** for optimal battery life

Do you want Firefox to remember the password for "admin" on https://172.26.16.10? Remember Never for This Site Not Now

WLAN Management User: admin Controller-172.26.16.10 12:27:59 AM CLI Save Help

Monitor

Maintenance

Configuration

System Config

Quick Start

Security

Profile

Radius

Captive Portal

Guest Users

Mac Filtering

Wireless IDS/IPS

Rogue APs

Air Shield

AP Packet Capture

Wired

VLAN

GRE

Wireless

Radio

ESS

QoS

System Settings

Devices

System Settings

Controller

APs

Antennas

Redirect

SNMP

Setup

Certificate Management

Server Certificates

Trusted Root CA

User Management

Web Users

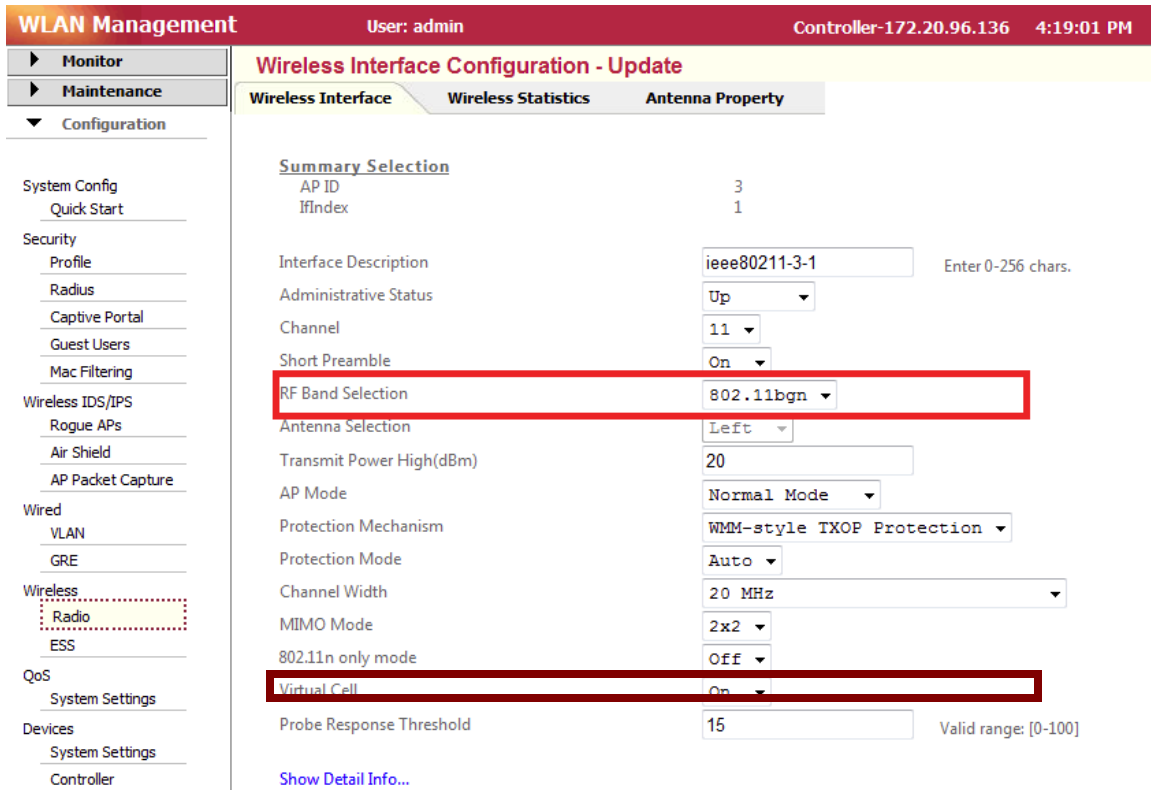
Authentication Mode

G Supported Transmit Rates (Mbps)	<input checked="" type="checkbox"/> 6 Mbps <input checked="" type="checkbox"/> 9 Mbps <input checked="" type="checkbox"/> 12 Mbps <input checked="" type="checkbox"/> 18 Mbps <input checked="" type="checkbox"/> 24 Mbps <input checked="" type="checkbox"/> 36 Mbps <input checked="" type="checkbox"/> 48 Mbps <input checked="" type="checkbox"/> 54 Mbps
G Base Transmit Rates (Mbps)	<input checked="" type="checkbox"/> 6 Mbps <input checked="" type="checkbox"/> 9 Mbps <input checked="" type="checkbox"/> 12 Mbps <input checked="" type="checkbox"/> 18 Mbps <input checked="" type="checkbox"/> 24 Mbps <input checked="" type="checkbox"/> 36 Mbps <input checked="" type="checkbox"/> 48 Mbps <input checked="" type="checkbox"/> 54 Mbps
BG Supported Transmit Rates (Mbps)	<input checked="" type="checkbox"/> 1 Mbps <input checked="" type="checkbox"/> 2 Mbps <input checked="" type="checkbox"/> 5.5 Mbps <input checked="" type="checkbox"/> 11 Mbps <input checked="" type="checkbox"/> 6 Mbps <input checked="" type="checkbox"/> 9 Mbps <input checked="" type="checkbox"/> 12 Mbps <input checked="" type="checkbox"/> 18 Mbps <input checked="" type="checkbox"/> 24 Mbps <input checked="" type="checkbox"/> 36 Mbps <input checked="" type="checkbox"/> 48 Mbps <input checked="" type="checkbox"/> 54 Mbps
BG Base Transmit Rates (Mbps)	<input type="checkbox"/> 1 Mbps <input type="checkbox"/> 2 Mbps <input type="checkbox"/> 5.5 Mbps <input type="checkbox"/> 11 Mbps <input type="checkbox"/> 6 Mbps <input type="checkbox"/> 9 Mbps <input type="checkbox"/> 12 Mbps <input type="checkbox"/> 18 Mbps <input type="checkbox"/> 24 Mbps <input type="checkbox"/> 36 Mbps <input type="checkbox"/> 48 Mbps <input type="checkbox"/> 54 Mbps
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BGN Supported HT Transmit Rates (MCS)	<input type="checkbox"/> MCS 0 <input type="checkbox"/> MCS 1 <input type="checkbox"/> MCS 2 <input type="checkbox"/> MCS 3 <input type="checkbox"/> MCS 4 <input type="checkbox"/> MCS 5 <input type="checkbox"/> MCS 6 <input type="checkbox"/> MCS 7 <input type="checkbox"/> MCS 8 <input type="checkbox"/> MCS 9 <input type="checkbox"/> MCS 10 <input type="checkbox"/> MCS 11 <input type="checkbox"/> MCS 12 <input type="checkbox"/> MCS 13 <input type="checkbox"/> MCS 14 <input type="checkbox"/> MCS 15
BGN Base HT Transmit Rates (MCS)	<input type="checkbox"/> MCS 0 <input type="checkbox"/> MCS 1 <input type="checkbox"/> MCS 2 <input type="checkbox"/> MCS 3 <input type="checkbox"/> MCS 4 <input type="checkbox"/> MCS 5 <input type="checkbox"/> MCS 6 <input type="checkbox"/> MCS 7 <input type="checkbox"/> MCS 8 <input type="checkbox"/> MCS 9 <input type="checkbox"/> MCS 10 <input type="checkbox"/> MCS 11 <input type="checkbox"/> MCS 12 <input type="checkbox"/> MCS 13 <input type="checkbox"/> MCS 14 <input type="checkbox"/> MCS 15
AN Supported Transmit Rates (Mbps)	<input checked="" type="checkbox"/> 6 Mbps <input checked="" type="checkbox"/> 9 Mbps <input checked="" type="checkbox"/> 12 Mbps <input checked="" type="checkbox"/> 18 Mbps <input checked="" type="checkbox"/> 24 Mbps <input checked="" type="checkbox"/> 36 Mbps <input checked="" type="checkbox"/> 48 Mbps <input checked="" type="checkbox"/> 54 Mbps
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AN Supported HT Transmit Rates (MCS)	<input checked="" type="checkbox"/> MCS 0 <input checked="" type="checkbox"/> MCS 1 <input checked="" type="checkbox"/> MCS 2 <input checked="" type="checkbox"/> MCS 3 <input checked="" type="checkbox"/> MCS 4 <input checked="" type="checkbox"/> MCS 5 <input checked="" type="checkbox"/> MCS 6 <input checked="" type="checkbox"/> MCS 7 <input checked="" type="checkbox"/> MCS 8 <input checked="" type="checkbox"/> MCS 9 <input checked="" type="checkbox"/> MCS 10 <input checked="" type="checkbox"/> MCS 11 <input checked="" type="checkbox"/> MCS 12 <input checked="" type="checkbox"/> MCS 13 <input checked="" type="checkbox"/> MCS 14 <input checked="" type="checkbox"/> MCS 15

OK Cancel

Note: Configure data rates according to the screen shoot. Make sure to **disable** all HT data rates. These configurations assume that RF band selection is set to BGN. Please make use of the highlighted rates to configure the correct data settings

The screenshot below shows the band selection criteria that require for the coexistence Ascóm i62s with other 802.11n capable clients.

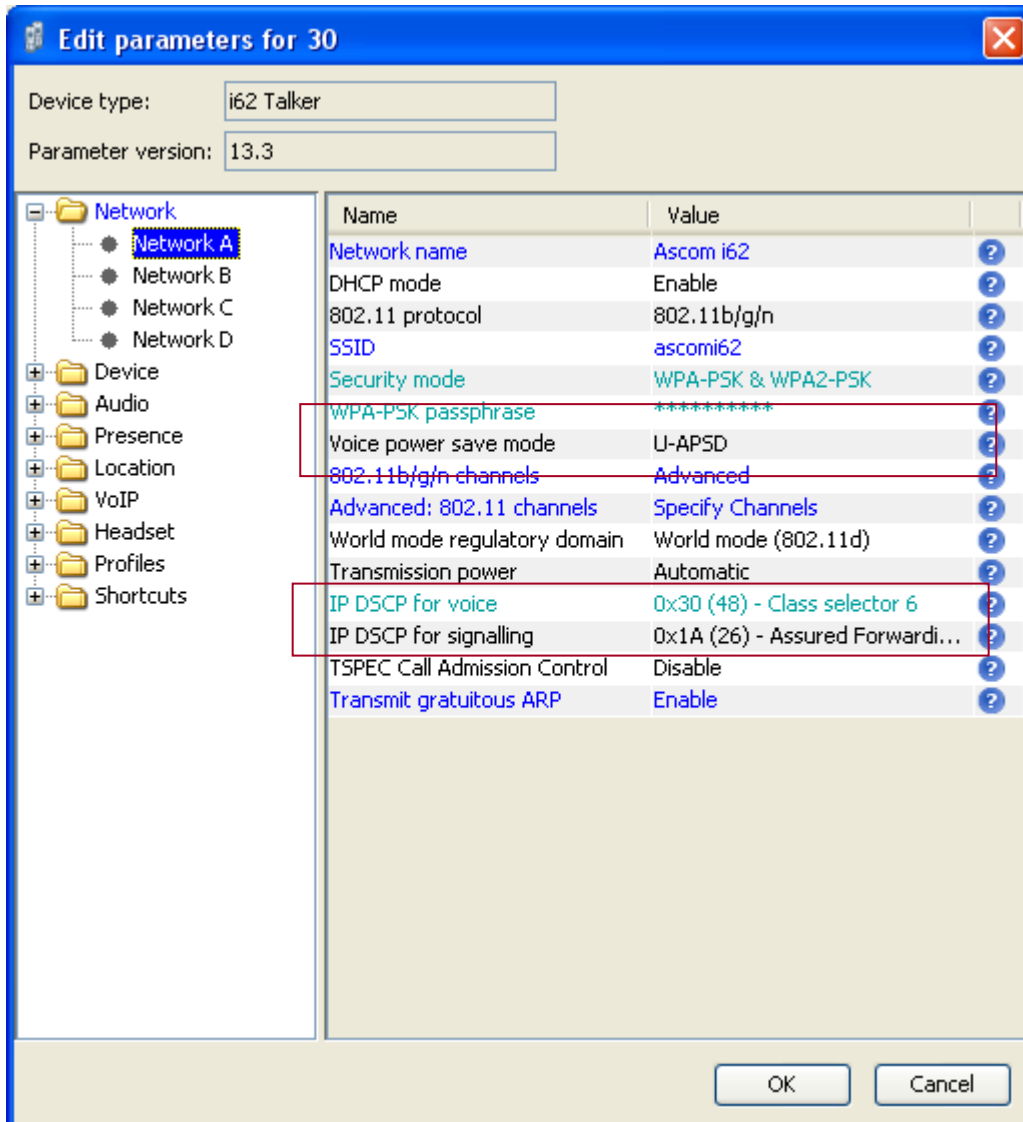


The screenshot displays the Meru Networks WLAN Management interface. The top navigation bar shows 'WLAN Management', 'User: admin', and 'Controller-172.20.96.136 4:19:01 PM'. The left sidebar contains a menu with categories: Monitor, Maintenance, Configuration, System Config, Security, Wireless IDS/IPS, Wired, Wireless, QoS, and Devices. The 'Wireless' category is expanded, and 'Radio' is selected. The main content area is titled 'Wireless Interface Configuration - Update' and has three tabs: 'Wireless Interface', 'Wireless Statistics', and 'Antenna Property'. The 'Wireless Interface' tab is active, showing a 'Summary Selection' table with columns for 'AP ID' (3) and 'IfIndex' (1). Below the table are various configuration fields: 'Interface Description' (ieee80211-3-1), 'Administrative Status' (Up), 'Channel' (11), 'Short Preamble' (On), 'RF Band Selection' (802.11bgn), 'Antenna Selection' (Left), 'Transmit Power High(dBm)' (20), 'AP Mode' (Normal Mode), 'Protection Mechanism' (WMM-style TXOP Protection), 'Protection Mode' (Auto), 'Channel Width' (20 MHz), 'MIMO Mode' (2x2), '802.11n only mode' (Off), 'Virtual Cell' (On), and 'Probe Response Threshold' (15). The 'RF Band Selection' and 'Virtual Cell' fields are highlighted with red boxes. A 'Show Detail Info...' link is located at the bottom of the configuration area.

Note: Please make sure the RF mode is set to 802.11 bgn to support other 'n' capable clients in the Network. Please note that this setting will work only when you have purchased 'n' capable AP. Make sure the Virtual Cell is turned **on**

Ascom i62

The screenshot below illustrates the network settings for the Ascom i62s



Note: Please use the version of System Director as mentioned earlier in the document. It is **very important** to have the following settings for the phones using firmware versions 2.2.17 and later

1. Voice Power Save set to **UAPSD**
2. IP DSCP for voice set to **Class Selector 6**
3. IP DSCP for signaling set to **default**.