

Interoperability Report

Ascom i62

Aruba

Mobility Controller Platform

Aruba AOS v. 6.5.4.0

Ascom i62 v. 5.5.0

Morrisville, NC, USA

October 2017

ascom

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Introduction

This document describes a summary of the interoperability verification results of the Ascom's and Aruba's platform, necessary steps and guidelines to optimally configure the platforms and support contact details. The report should be used in conjunction with both Aruba's and Ascom's platform configuration guides.

About Ascom

Ascom is a global solutions provider focused on healthcare ICT and mobile workflow solutions. The vision of Ascom is to close digital information gaps allowing for the best possible decisions – anytime and anywhere. Ascom's mission is to provide mission-critical, real-time solutions for highly mobile, ad hoc, and time-sensitive environments. Ascom uses its unique product and solutions portfolio and software architecture capabilities to devise integration and mobilization solutions that provide truly smooth, complete and efficient workflows for healthcare as well as for industry, security and retail sectors.

Ascom is headquartered in Baar (Switzerland), has subsidiaries in 15 countries and employs around 1,300 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.

About Aruba, a Hewlett Packard Enterprise company

Aruba, a Hewlett Packard Enterprise company, is a leading provider of next-generation networking solutions for enterprises of all sizes worldwide. The company delivers IT solutions that empower organizations to serve the latest generation of mobile-savvy users who rely on cloud-based business apps for every aspect of their work and personal lives.

To learn more, visit Aruba at <http://www.arubanetworks.com> . For real-time news updates follow Aruba on Twitter and Facebook, and for the latest technical discussions on mobility and Aruba products visit Airheads Social at <http://community.arubanetworks.com> .

Site Information

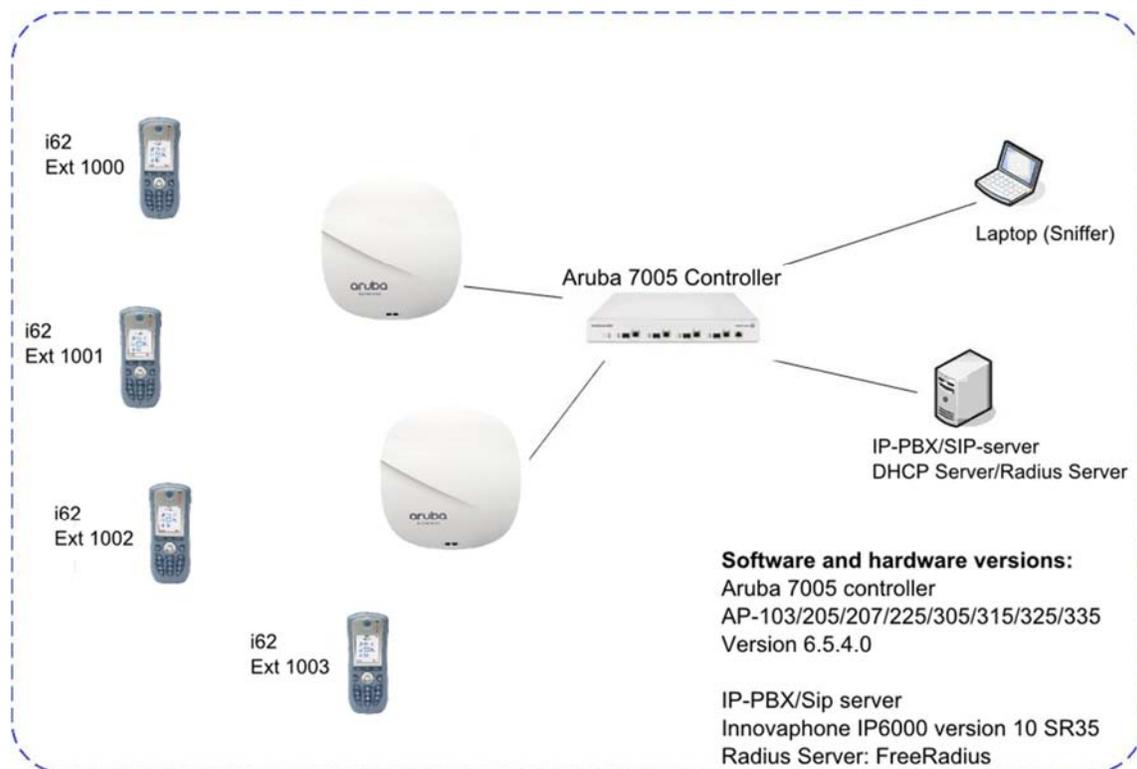
Verification site

Ascom US
300 Perimeter park drive
Morrisville, NC, US-27560
USA

Participants

Karl-Magnus Olsson, Ascom, Morrisville

Verification topology



Summary

General conclusions

The verification, including association, authentication, roaming, and load test produced very good results overall. Roaming times were in general good with roaming times of around 40-60ms both when using WPA2-PSK/AES and PEAP-MSCHAPv2 (WPA2/AES).

Load testing showed that more than 12 Ascom i62 Handsets could maintain a call via a single Aruba access point when tested both in active and U-APSD modes. Note that 12 was the maximum number of devices tested and not the capacity limit.

Compatibility information

One Access point model from every product generation has been selected as a representation (AP-103, 205, 207, 225, 305, 315, 325 and 335). By testing these access points we are considered cover all major Aruba access points based on chipset compatibility.

Supported Partner Access Points with AOS version 6.5.4.0:

AP-103, 204, 205, 207, 214, 215, 224, 225, 275,

AP-304, 305, 314, 315, 324, 325, 334, 335

Supported Partner Controller Platforms with AOS version 6.5.4.0:

7000 series Mobility controllers

7200 series Mobility controllers

Verification overview

WLAN Compatibility and Performance

High Level Functionality	Result	Comments
Association, Open with No Encryption	OK	
Association, WPA2-PSK / AES Encryption	OK	
Association, PEAP-MSCHAPv2 Auth, AES Encryption	OK	
Association with EAP-TLS authentication	OK	
Association, Multiple ESSIDs	OK	
Beacon Interval and DTIM Period	OK	
PMKSA Caching	OK	
WPA2-opportunistic/proactive Key Caching	OK	
WMM Prioritization	OK	
802.11 Power-save mode	OK	
802.11e U-APSD	OK	
802.11e U-APSD (load test)	OK	
Roaming, WPA2-PSK, AES Encryption	OK *	Typical roaming time 47 ms
Roaming, PEAP-MSCHAPv2 Auth, AES Encryption	OK **	Typical roaming time 58 ms

*) Average roaming times are measured using 802.11a/n. Refer to Appendix B for detailed test results

**) Measured times is with opportunistic/proactive Key Caching enabled (default enabled)

Known limitations

Description and Consequence	Workaround	Ticket(s) raised
Ascom i62 does not handle 802.11K info correctly which affects the roaming negatively.	Do not advertise the 802.11K capabilities for the Ascom i62 SSID.	
If call admission control is desired Ascom recommend using Aruba's proprietary Call Admission Control instead of WMM TSPEC. With this method the controller will interact by dropping the SIP invite when the maximum number of calls / maximum bandwidth is reached.		

For additional information regarding the known limitations please contact interop@ascom.com or support@ascom.com.

For detailed verification results, refer to Appendix B: Detailed Verification Records.

Appendix A: Verification Configurations

Aruba 7005 Controller, AOS 6.5.4.0

This section includes screenshots and explanations of basic settings required to use Ascom i62 Handsets with an Aruba 7005 Mobility Controller. Please note the security settings of each test case, as they were modified according to needs of the test cases.

The configuration file is found at the end of this appendix.

General settings (SSID, Radio and QoS)

The screenshot shows the configuration page for an SSID profile. The left sidebar contains a navigation menu with categories like WIZARDS, NETWORK, SECURITY, and WIRELESS. The main content area is titled 'Configuration > AP Group > Edit "Interop"'. It features a 'Profiles' tree on the left and a 'Profile Details' panel on the right. The 'Profile Details' panel has tabs for 'Basic' and 'Advanced'. The 'Advanced' tab is active, showing various settings. A red box highlights the 'DTIM Interval' and '802.11a Transmit Rates' sections.

DTIM Interval	5	beacon periods		
802.11a Basic Rates	<input type="checkbox"/> 6	<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 12	<input type="checkbox"/> 36
802.11a Transmit Rates	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 36

Set DTIM Interval to 5. This value is recommended for maximum battery conservation without impacting call quality. Using a lower value will also decrease the standby time slightly.

aruba NETWORKS CLOUD SERVICES CONTROLLER | Aruba7005 Log out

Dashboard Monitoring **Configuration** Diagnostics Maintenance Save Configuration

WIZARDS
 AP
 Controller
 Campus WLAN
 Remote AP
 AirWave
 NETWORK
 Controller
 VLANs
 Ports
 Cellular Profile
 IP
 SECURITY
 Authentication
 Access Control
 WIRELESS
 > AP Configuration
 AP Installation
 MANAGEMENT
 General
 Administration
 Certificates
 SNMP
 Logging
 Clock
 Guest Provisioning
 Captive Portal
 SMTP

Configuration > AP Group > Edit "Interop"

Profiles	Profile Details																																																																																																									
<ul style="list-style-type: none"> Wireless LAN <ul style="list-style-type: none"> Virtual AP <ul style="list-style-type: none"> ArubaIntop1X-vap_prof ArubaIntopPSK-vap_prof AAA ArubaIntopPSK-aaa_prof 802.11K default Hotspot 2.0 SSID ArubaIntopPSK-ssid_prof <ul style="list-style-type: none"> EDCA Parameters Station default EDCA Parameters AP default High-throughput SSID ArubaIntopPSK-htssid_prof <ul style="list-style-type: none"> 802.11r WMM Traffic Management <ul style="list-style-type: none"> Anyspot ArubaIntop-vap_prof default AlcatelPSK RF Management <ul style="list-style-type: none"> AP QOS IDS Mesh 	<table border="1"> <tr> <td>802.11g Basic Rates</td> <td><input type="checkbox"/> 1</td> <td><input type="checkbox"/> 2</td> <td><input type="checkbox"/> 5</td> <td><input type="checkbox"/> 6</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 9</td> <td><input type="checkbox"/> 11</td> <td><input checked="" type="checkbox"/> 12</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> 18</td> <td><input checked="" type="checkbox"/> 24</td> <td><input type="checkbox"/> 36</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> 48</td> <td><input type="checkbox"/> 54</td> <td></td> <td></td> </tr> <tr> <td>802.11g Transmit Rates</td> <td><input type="checkbox"/> 1</td> <td><input type="checkbox"/> 2</td> <td><input type="checkbox"/> 5</td> <td><input type="checkbox"/> 6</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 9</td> <td><input type="checkbox"/> 11</td> <td><input checked="" type="checkbox"/> 12</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> 18</td> <td><input checked="" type="checkbox"/> 24</td> <td><input checked="" type="checkbox"/> 36</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> 48</td> <td><input checked="" type="checkbox"/> 54</td> <td></td> <td></td> </tr> <tr> <td>Station Ageout Time</td> <td colspan="4"><input type="text" value="1000"/> sec</td> </tr> <tr> <td>Max. Transmit Attempts</td> <td colspan="4"><input type="text" value="4"/></td> </tr> <tr> <td>RTS Threshold</td> <td colspan="4"><input type="text" value="2333"/> bytes</td> </tr> <tr> <td>Short Preamble</td> <td colspan="4"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Max. Associations</td> <td colspan="4"><input type="text" value="64"/></td> </tr> <tr> <td>Wireless Multimedia (WMM)</td> <td colspan="4"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Wireless Multimedia U-APSD (WMM-UAPSD) Powersave</td> <td colspan="4"><input checked="" type="checkbox"/></td> </tr> <tr> <td>WMM TSPEC Min Inactivity Interval</td> <td colspan="4"><input type="text" value="0"/> msec</td> </tr> <tr> <td>Override DSCP mappings for WMM clients</td> <td colspan="4"><input checked="" type="checkbox"/></td> </tr> <tr> <td>DSCP mapping for WMM voice AC (0-63)</td> <td colspan="4"><input type="text" value="46"/></td> </tr> <tr> <td>DSCP mapping for WMM video AC (0-63)</td> <td colspan="4"><input type="text" value="26"/></td> </tr> <tr> <td>DSCP mapping for WMM best-effort AC (0-63)</td> <td colspan="4"><input type="text" value="24"/></td> </tr> <tr> <td>DSCP mapping for WMM background AC (0-63)</td> <td colspan="4"><input type="text" value="8"/></td> </tr> </table>	802.11g Basic Rates	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 5	<input type="checkbox"/> 6		<input type="checkbox"/> 9	<input type="checkbox"/> 11	<input checked="" type="checkbox"/> 12			<input type="checkbox"/> 18	<input checked="" type="checkbox"/> 24	<input type="checkbox"/> 36			<input type="checkbox"/> 48	<input type="checkbox"/> 54			802.11g Transmit Rates	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 5	<input type="checkbox"/> 6		<input type="checkbox"/> 9	<input type="checkbox"/> 11	<input checked="" type="checkbox"/> 12			<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 24	<input checked="" type="checkbox"/> 36			<input checked="" type="checkbox"/> 48	<input checked="" type="checkbox"/> 54			Station Ageout Time	<input type="text" value="1000"/> sec				Max. Transmit Attempts	<input type="text" value="4"/>				RTS Threshold	<input type="text" value="2333"/> bytes				Short Preamble	<input checked="" type="checkbox"/>				Max. Associations	<input type="text" value="64"/>				Wireless Multimedia (WMM)	<input checked="" type="checkbox"/>				Wireless Multimedia U-APSD (WMM-UAPSD) Powersave	<input checked="" type="checkbox"/>				WMM TSPEC Min Inactivity Interval	<input type="text" value="0"/> msec				Override DSCP mappings for WMM clients	<input checked="" type="checkbox"/>				DSCP mapping for WMM voice AC (0-63)	<input type="text" value="46"/>				DSCP mapping for WMM video AC (0-63)	<input type="text" value="26"/>				DSCP mapping for WMM best-effort AC (0-63)	<input type="text" value="24"/>				DSCP mapping for WMM background AC (0-63)	<input type="text" value="8"/>			
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Ascom recommends disabling the lowest rates and recommends that 12mbits is set as the lowest basic rate.

Ensure that WMM and U-APSD are enabled. To match the default values in the i62 ensure to use DSCP 46 for Voice, 26 for video. The rest are left as default. It is also recommended that "Max Transmit Attempts" be set to 4.

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Dashboard Monitoring **Configuration** Diagnostics Maintenance Save Configuration

WIZARDS
 AP
 Controller
 Campus WLAN
 Remote AP
 AirWave
 NETWORK
 Controller
 VLANs
 Ports
 Cellular Profile
 IP
 SECURITY
 Authentication
 Access Control
 WIRELESS
 > AP Configuration
 AP Installation
 MANAGEMENT
 General
 Administration
 Certificates
 SNMP
 Logging
 Clock
 Guest Provisioning
 Captive Portal
 SMTP
 Bandwidth Calculator
 Threshold
 ADVANCED SERVICES

Configuration > AP Group > Edit "Interop"

Profiles	Profile Details
Wireless LAN	Hide SSID <input type="checkbox"/>
Virtual AP	Deny_Broadcast Probes <input type="checkbox"/>
ArubaIntop1X-vap_prof	Local Probe Request Threshold (dB) 0
ArubaIntopPSK-vap_prof	Auth Request Threshold (dB) 0
AAA	Disable Probe Retry <input checked="" type="checkbox"/>
802.11K	Battery Boost <input type="checkbox"/>
Hotspot 2.0	WEP Key 1 Retype: <input type="text"/>
SSID	WEP Key 2 Retype: <input type="text"/>
EDCA Parameters Station	WEP Key 3 Retype: <input type="text"/>
EDCA Parameters AP	WEP Key 4 Retype: <input type="text"/>
High-throughput SSID	WEP Transmit Key Index 1
802.11r	WPA Hexkey Retype: <input type="text"/>
WMM Traffic Management	WPA Passphrase Retype: <input type="text"/>
Anyspot	Maximum Transmit Failures 25
ArubaIntopPSK-aaa_prof	BC/MC Rate Optimization <input type="checkbox"/>
ArubaIntopPSK-ssid_prof	
ArubaIntopPSK-hssid_prof	

Set "Maximum Transmit Failures" to 25.

aruba NETWORKS CLOUD SERVICES CONTROLLER | Aruba7005 [Log out admin](#)

Dashboard Monitoring **Configuration** Diagnostics Maintenance Save Configuration

WIZARDS
 AP
 Controller
 Campus WLAN
 Remote AP
 AirWave
 NETWORK
 Controller
 VLANs
 Ports
 Cellular Profile
 IP
 SECURITY
 Authentication
 Access Control
 WIRELESS
 > AP Configuration
 AP Installation
 MANAGEMENT
 General
 Administration

Configuration > AP Group > Edit "Interop"

Profiles	Profile Details
Wireless LAN	High-throughput SSID Profile > [ArubaIntopPSK-hssid_prof] Show Reference Save As Reset
Virtual AP	Basic Advanced
ArubaIntop1X-vap_prof	General
ArubaIntopPSK-vap_prof	High throughput enable (SSID) <input checked="" type="checkbox"/>
AAA	40 MHz channel usage <input checked="" type="checkbox"/>
802.11K	Very High throughput enable (SSID) <input checked="" type="checkbox"/>
Hotspot 2.0	80 MHz channel usage (VHT) <input type="checkbox"/>
SSID	Transmit Beamforming
EDCA Parameters Station	VHT - Explicit Transmit Beamforming <input checked="" type="checkbox"/>
EDCA Parameters AP	Multi User Transmit Beamforming
High-throughput SSID	VHT - Multi User Transmit Beamforming <input type="checkbox"/>
802.11r	
WMM Traffic Management	

"High throughput enable" enables 802.11n capabilities that are supported in combination with Open encryption and WPA2-AES (PSK or Enterprise).

See page 14 for further additional recommendations on 11a/n/ac channel configuration.

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Dashboard | Monitoring | **Configuration** | Diagnostics | Maintenance | Save Configuration

WIZARDS

- AP
- Controller
- Campus WLAN
- Remote AP
- AirWave

NETWORK

- Controller
- VLANs
- Ports
- IP

SECURITY

- Authentication
- Access Control

WIRELESS

- AP Configuration
- AP Installation

MANAGEMENT

- General
- Administration
- Certificates
- SNMP
- Logging
- Clock
- Guest Provisioning
- Captive Portal
- SMTP
- Bandwidth Calculator
- Threshold

ADVANCED SERVICES

- Redundancy

Configuration > AP Group > Edit "Interop"

Profiles	Profile Details
<ul style="list-style-type: none"> Wireless LAN RF Management <ul style="list-style-type: none"> 802.11a radio ch 36 Adaptive Radio Management (ARM) default-a <ul style="list-style-type: none"> High-throughput Radio default-a AM Scanning default 802.11g radio default RF Optimization default RF Event Thresholds default AP QoS IDS Mesh 	<p>802.11a radio profile > ch 36 Show Reference Save As Reset</p> <p>Basic Advanced</p> <ul style="list-style-type: none"> Radio enable <input checked="" type="checkbox"/> Mode ap-mode High throughput enable (radio) <input checked="" type="checkbox"/> Very high throughput enable (radio) <input checked="" type="checkbox"/> Channel 36 Transmit EIRP 13.0 Non-Wi-Fi Interference Immunity 2 Spur Immunity 0 Enable CSA <input type="checkbox"/> CSA Count 4 Smart Antenna <input type="checkbox"/> Advertise 802.11d and 802.11h Capabilities <input checked="" type="checkbox"/> Spectrum Load Balancing <input type="checkbox"/> Beacon Period 100 msec Beacon Regulate <input type="checkbox"/> Advertized regulatory max EIRP 0 ARM/WIDS Override OFF Reduce Cell Size (Rx Sensitivity) 0 dB Energy Detect Threshold Offset 0 dB Management Frame Throttle Interval 1 sec <p>Channel Width: <input checked="" type="radio"/> 20MHz <input type="radio"/> 40MHz <input type="radio"/> 80MHz <input type="radio"/> 80+80MHz <input type="radio"/> 160MHz</p>

Ascom recommends a Beacon Interval of 100ms and advertising 802.11d/h capabilities. Recommended settings for 802.11b/g/n are to use only channel 1, 6 and 11. For 802.11a/n/ac use channels according to the infrastructure manufacturer, country regulations and per guidelines below.

General guidelines when deploying Ascom i62 handsets in 802.11a/n/ac environments:

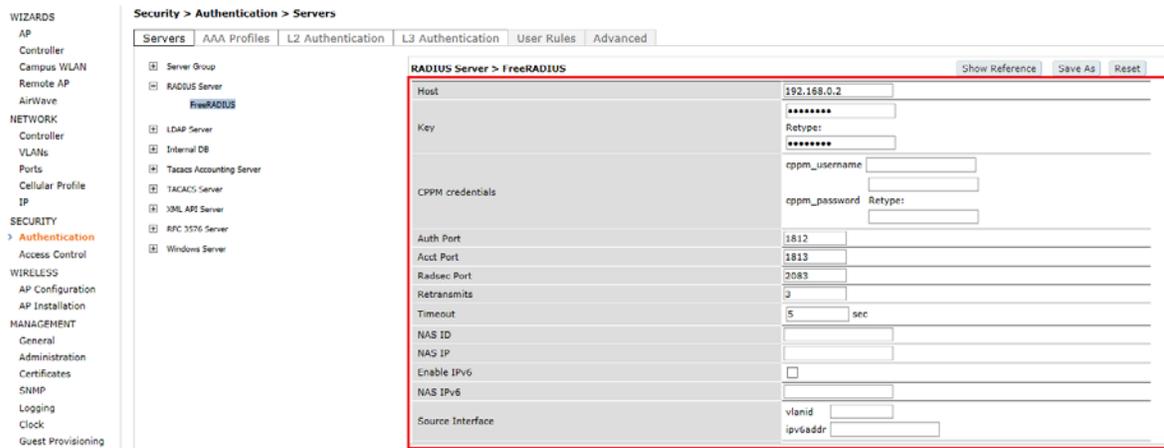
- 1. Enabling more than 8 channels will degrade roaming performance. In situations where UNII1 and UNII3 are used, a maximum of 9 enabled channels can be allowed. Ascom does not recommend exceeding this limit.**
- 2. Using 40 MHz channels (or "channel-bonding") will reduce the number of non-DFS* channels to two in ETSI regions (Europe). In FCC regions (North America), 40MHz is a more viable option because of the availability of additional non-DFS channels. The handset can co-exist with 40MHz stations in the same ESS.**
- 3. Ascom do support and can coexist in 80MHz channel bonding environments. The recommendations is however to avoid 80MHz channel bonding as it severely reduces the number of available non overlapping channels.**
- 4. Make sure that all non-DFS channel are taken before resorting to DFS channels. The handset can cope in mixed non-DFS and DFS environments; however, due to "unpredictability" introduced by radar detection protocols, voice quality may become distorted and roaming delayed. Hence Ascom recommends if possible avoiding the use of DFS channels in VoWiFi deployments.**

*) Dynamic Frequency Selection (radar detection)

Encryption and Authentication Settings

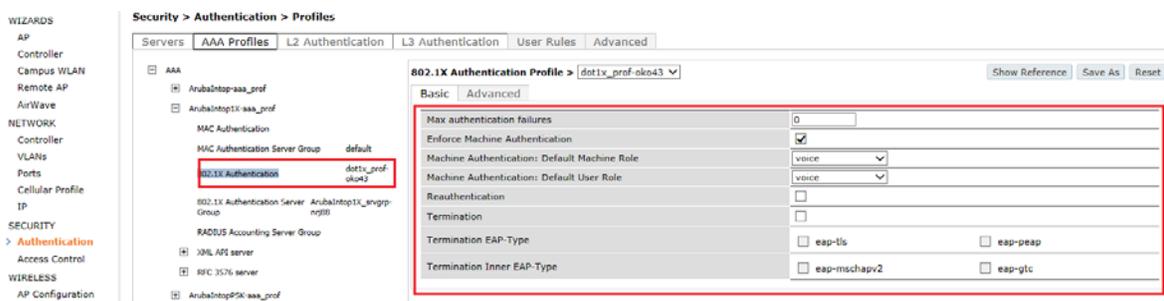


WPA2-PSK. Set the security profile to WPA2-PSK, AES encryption.



Enterprise/.1X authentication.

Step 1: When configuring the authentication mode using a Radius server, the IP address and the Key must correspond to the IP address and the credential used by the Radius server. The RADIUS server should be added to a Server Group.



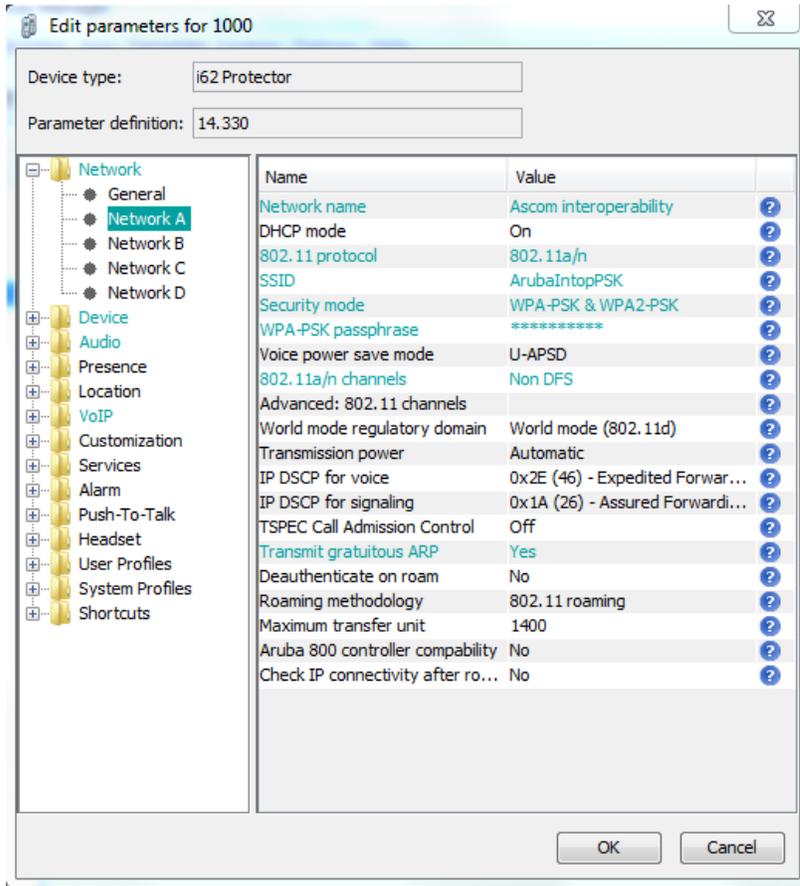
Step 2: Create an 802.1X Authentication Profile.



Step 3: Choose the 802.1X Authentication profile created in previous step and configure the Authentication Server group.

Choose configured AAA Profile and set WPA2/AES as the security mode.

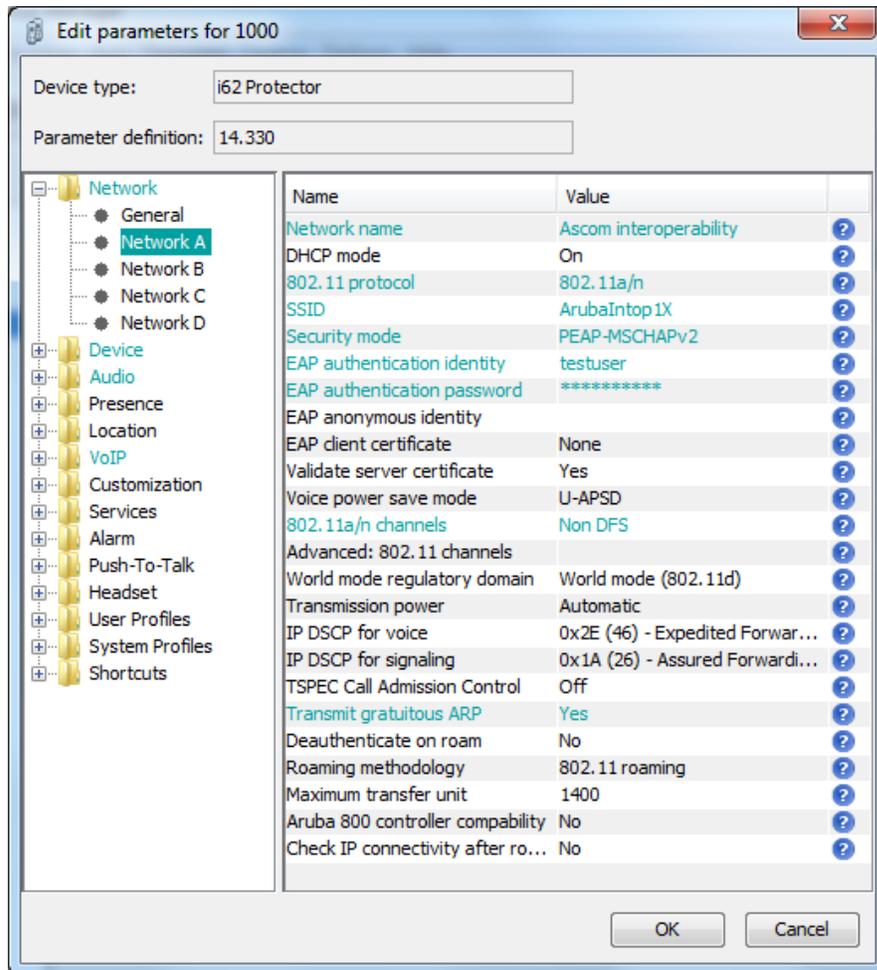
See Appendix B for the controller configuration used for the certification process.



Network settings for WPA2-PSK

- Select frequency band according to system setup (here 802.11a/n)
- Select only the channels used in the system. In this example Non DFS (UNII1 and 3)

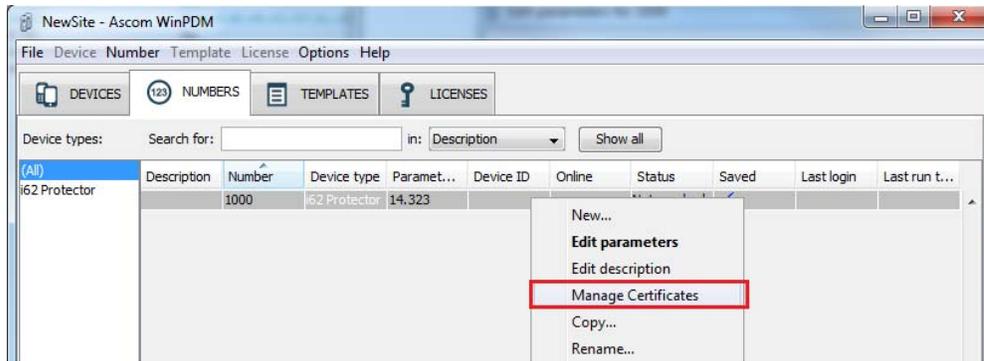
Note. FCC is no longer allowing 802.11d to determine regulatory domain. Devices deployed in USA must set Regulatory domain to "USA". Consider the known issues chapter.



Network settings for .1X authentication (PEAP-MSCHAPv2)

- Select frequency band according to system setup (here 802.11a/n)
- Select only the channels used in the system. In this example Non DFS (UNII1 and 3)

Note. FCC is no longer allowing 802.11d to determine regulatory domain. Devices deployed in USA must set Regulatory domain to "USA". Consider the known issues chapter.



802.1X Authentication requires a root certificate to be uploaded to the phone by “right clicking” -> Edit certificates. EAP-TLS will require both a CA and a client certificate.

Note that both a root and a client certificate are needed for TLS. Otherwise only a CA certificate is needed. Server certificate validation can be overridden in version 4.1.12 and above per handset setting (Validate server certificate under Network settings).

Appendix B: Detailed Verification Records

Pass	18
Fail	0
Comments	2
Not verified	1
Total	21

Refer to the attached file for detailed verification results.

Refer to the verification specification for explicit information regarding each verification case.

The specification can be found here (requires login):

<https://www.ascom-ws.com/AscomPartnerWeb/en/startpage/Sales-tools/Interoperability/Templates/>

Document History

Rev	Date	Author	Description
R1	7 November 2017	SEKMO	Revision R1. AOS 6.5.4.0