1. Status Menu

1.1. System Status

The System Status screen provides a real-time summary of AN100/300 settings and performance.

Figure 1. System Status Menu

Aprice Mail	aystein nutrie Service Tag Firmular Vetilon Mandoment VLAN ID	3	12416			
Wireless Information 050 Wireless Information Urtogot Management VLAN ID Urtogot Wireless Information SORe MacAsees SORe MacAsees SORe MacAsees SORe MacAsees SORe Number of Networks 1 Number of Networks 0 Openson Modes 0 Openson Modes 0 TX Openson Rik OB/ref Openson Modes OB/ref LAN Information States Port LAN Information States Steel 100/tps LAN Information 100/tps Steel 100/tps LAN Information 100/tps Steel 100/tps Steel 100/tps Dupons Autore Mates	Firmware Version Management VLAN ID					
Name Use Maragement (Jak in) Uraged Wireless Information SDM MAC Address 60 C 54 (5 3) 6 C MAC Address 60 C 54 (5 3) 6 C Mumber of Datesiona 1 Number of Datesiona 0 Number of Datesiona 0 TX 0 prime Opena 0 prime TX 0 prime RX 0 prime Opena 0 prime LAM Information 1 Speed 1000tops Speed 100tops Speed 100tops Speed 100tops Speed 202 202 50 0	Management VLAN ID					
Integration SAME Wireles Information SSC 06 10 35 00 SSC 06 10 35 00 MuC Address SSC 06 10 35 00 SSC 06 10 35 00 Number of Ceneted Clients 0 0 Operation Rode Ø Accese Point 0 TX 0 g/ms 0 g/ms RX 0 g/ms 0 g/ms LAN Information Stock 10 35 00 1 Speed 100/tops Ø g/ms 1			122004			
Wireless Information XAC Addess SDC 98 10 33 0C SDC 98 10 33 0C Much Addess SDC 98 10 33 0C SDC 98 10 33 0C Number of Information 1 SDC 98 10 33 0C Number of Information 0 0 Opensition Modes 0 0 RK 0 0 KK 0 0 0 <th< th=""> <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<></th<>						
ALCA Adverse ACMA	Wireless Information					
MAC Address BDC 06 10 33 60 BDD 06 10 33 60 Number of Stebons 1 1 Number of Stebons 0 0 Specific Nodes 0 0 Specific Nodes 0 0 0 Specific Nodes 0 0 0 0 TX 0 8 pm 6 0 8 pm 6 0 8 pm 6 0 0 TX 0 8 pm 6 LAN Information Information 100 kpm 6 Information 100 kpm 7 <		2	L4GHz		SGH2	
Number of Stebsons 1 1 Number of Connetid Clinits 0 0 0 0 Speation Mode Access Point 0 0 0 0 TX 0 Bytes 0 Bytes 0 Bytes 0 Bytes 0 Bytes 0 Bytes KX 0 Bytes	MAC Address	3	8 DC 96 1D 33 6C		68 DC 96 1D 33 6D	
Number of Connected Clients 0 0 Operation Mode 0 Access Point Col TX 0.5 ms	Number of Networks	1			1	
Operation Modes Access Point Access Point Access Point TX 0 8/ms 0 8/ms 0 8/ms RX 0 8/ms 0 8/ms 0 8/ms All Life Modess Point Access Point RATION NOTES	Number of Connected Clients	0)		0	
TX 0 6/yes 0 6/yes RX 0 8/yes 0 8/yes 0 8/yes LNN Information 100/tops 100/tops 122.165.1001 Oppers PAdmess 152.165.1001 152.165.1001 Oppers PAdmess 152.165.1001 152.165.1001	Operation Mode	0 A	Access Point		Access Point	
RK 0 Bytes 0 Bytes LAN Information # Advress # # 2500 (\$100,100) Speed 100/tops # Advress \$12,100,100' Oppins # Advress \$2,200,100' \$2,200,100' Oppins Aur \$2,200,100' \$2,200,100'	TX	0) Bytes		0 B/tes	
LAN Information \$peed 100/tps \$P.Admss 192:163.101 Doptex Asi Sector 1444 2010	RX	0) Bytes		0 Bytes	
Duplex Pull Subnet Mask 255.255.25	Speed	100Mbps		IP Address		192.168.1.101
	Duplex	Put	-	Subnet Mask		288 288 288 0
MAC Address 00 C 59 10 33 69 Default Gateway 192 163 11	MAC Address	88 DC 96 1D 33 68	8	Default Gateway		192.168.1.1
TX 24499 9/96 9/96 Primary DHS 201547 51	17.	244369 8/186		Primary DNS		209.18.47.61
NX 1242099 b/ths Secondary DN 5 228.16.47.62	RX	1242099 Dytes		Secondary DNS		209.18.47.62
And 31 57:57:15 19300 year ware haven ; TOFTTON ; Mand to fiv the suphlity shack for DIRID (spacewal stands ; 006)	Jul 2 07:07:19 MJ00 wer.van kernel 30007MJ 201 2 07:07:19 MJ00 wer.van kernel 301_201 Jul 2 07:07:19 MJ00 wer.van kernel 301_201 1 2 07:07:19 MJ00 wer.van kernel 301_001 1 2 07:07:19 MJ00 wer.van kernel 3000 (000 1 2 07:07:19 MJ00 wer.info kernel 1000000 0 1 2 07:07:19 MJ00 wer.info kernel 10000000 0 1 2 07:07:19 MJ00 wer.info kernel 10000000 0 1 2 07:07:19 MJ00 wer.info kernel 10000000 0 1 2 07:07:19 MJ00 wer.info kernel 100000000 0 1 2 07:07:10 MJ00000000000000000000000000000000000	L : Deed to fix the cap _RADAR : Capable _PHYDIAG : Capable kee = 48 rap clock 4000m ral_atmach : 201) ng Cal data from Flash ng Cal data from Flash nise mode: 0x0000000 m disparing of 20411 mi	ablity check for PADAR (spectral_stach : 2 units detected	26)		
 Sul 21 (1971):5 33200 user.vash bernal: ISL_CD2_BIND : Capable Sul 21 (1971):5 33200 user.vash bernal: ISL_CD2_BINDIA: Capable Sul 21 (1971):5 33200 user.vash bernal: ISL_CD2_BINDIA: Capable Sul 21 (1971):5 33200 user.ists bernal: Islamentary of the State S	Aug 11 11:11:17 AN200 eron.err erond(2272): time					

Path Status, System

1.1.1. System Information

The System Information screen provides basic information about the AN100/300.

Figure 2. System Information

	araknis	SYSTEM STATUS	⊙ Aystein Time: 2014-00-10.20.20.00 € Aystein Uptime: 01.14.00
•	STATUS • system Voreless interface	System Information	
	ACTINICA .	System Name	2/2016
	SYSTEM	Service Tag	
	LAN	Firmware Version	090
	WIRELESS	Management VLAN ID	Untagged
	SECURITY		

Path Status, System, System Information

Parameters

- System Name Name assigned to the system.
- Service Tag An internal tracking number used to track every product sold by SnapAV .
- Firmware Version The current version of firmware running on the AN100/300.
- Management VLAN ID The VLAN through which a user can access the web interface of the AN100/300.

1.1.2. Wireless Information

The Wireless Information screen provides basic information about the radio sections of the AN100/300.

Figure 3. Wireless Information

MAINTENANCE	Wireless Information		
PING		2.4GHz	SCH2
SPEED TEST	MAC Address	88/DC-96:1D:33/6C	88 DC 96 1D 33 6D
FILE MANAGEMENT	Number of Networks	1	1
RESTART	Number of Connected Clients	0	0
LOGOUT	Operation Mode	O Access Point	Access Point
O ADVANCED	тх	0 Bytes	0 Bytes
Annala Charana A	RX	0 Bytes	0 B/tes
Apply Changes: 0			

Path Status, System, Wireless Information

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- MAC Address Device Media Access Control (MAC) Address. The 2.4GHz and 5GHz sections section each have individual MAC Addresses.
- Number of Networks Number of active wireless networks (i.e. SSIDs) configured on the device.
- Number of Connected Clients Number of currently connected wireless clients on all configured networks.
- Operation Mode Indicates that the AN100/300 is setup as an Access Point.
- **TX** Live counter of data, in bytes, transmitted on the respective radio interface.
- **RX** Live counter of data, in bytes, received on the respective radio interface.

1.1.3. LAN Information

The LAN Information screen provides basic information about the AN100/300 LAN connection to a connected network device.

Figure 4. LAN Information

100Mbps	IP Address	192.168.1.101
Pul	Subnet Mask	255 255 255 0
88:DC:96:1D:33:68	Default Gateway	192.168.1.1
244309 0/066	Primary DNS	209.18.47.61
1242099 Bytes	Secondary DNS	209.18.47.62
	100/loge Pull 88 DC 94 10 23 88 244/08 Pyre 140/09 Pyre	100.htps Ør.domsé Pull Subnet Mask 80.DS 80 Default Gatewy 24.058 Ppsé Primary DH S 1.0000 Bps Secondary DH S

Path Status, System, LAN Information

Parameters

- Speed Indicates current LAN speed between the AN100/300 and connected network device.
- MAC Address The LAN MAC Address serves as the device MAC Address.
- Duplex Indicates the current negotiated duplex setting between the AN100/300 and connected network device.
- **TX** Live counter of data, in bytes, transmitted to the connected network device via LAN connection.
- RX Live counter of data, in bytes, received from the connected network device via LAN connection.
- IP Address AN100/300 IP Address.
- Subnet Mask AN100/300 subnet mask.
- Default Gateway Router IP Address.
- Primary DNS Indicates the Primary DNS for the AN100/300.
- Secondary DNS Indicates the Secondary DNS for the AN100/300.

1.1.4. System Log

The System Log indicates AN100/300 activity in regard to configuration, connections, security conditions, etc. The window will update when the System Status Page is opened.

Figure 5. System Log

ul 12 Officie Allon uner, vann bennel: ANL_CAL_MINICAN : Capable ul 21 Officie Station uner, vann bennel: ANL_CAL_MINICAN : Capable ul 21 Officie ANDIO uner, vann bennel: CANLANTER = 44	
AN A TITIE HEAT AND A	
al 21 07:07:18 ANDOG unex, warm kernel; Boostsrap wlosk 4000s	
az a zorodziej doko weter zana senana. Vojetska zorodzi z doka zorodzi z d	178
1 2 0° 0° 12 Millo uter info Arresi: Encerptize acide: 0x0000000	
ug iš ištiši" Asivo demo.ett tennetariai: šime Aisparsky at jokis minotes assesses	

Path Status, System, System Log

Parameters

• **System Log** – The System Log indicates AN100/300 activity in regard to configuration, connections, security conditions, etc. The window will update when the System Status Page is opened.

- Save Log Click to view the log as a text file or save the log for future reference.
- Clear Log Click Clear Log to permanently delete to contents of the System Log

1.2. Wireless Interface

The Wireless Interface Status screen provides a detailed look at AN100/300 wireless settings and performance for radio status and settings, Wireless Network configuration and connected client status.

Figure 6. Wireless Interface Status

RESTART	RX		0 Bytes		4180987 Bytes	
SPEED TEST	тх		0 Bytes		738189248 Bytes	
TRACEROUTE	Channel Frequency	0	2.437 GHz		5.745 GHz	
MAINTENANCE	Channel Selection	0	Auto Channel 6		Auto Chappel 149	
SECURITY	Channel Bandwidth	0	20MHz		40MHz	
WIRELESS	Wireless Mode	0	802.11 B/G/N		802.11 A/N	
LAN	Operation Mode	0	Access Point		Access Point	
SETTINGS	Interface Status		Enabled		Enabled	
WIRELESS INTERFACE SETTINGS SYSTEM	Radio Status Interface Status Operation Mode	0	2.4GHz Enabled		5GHz Enabled	

Path Status, Wireless Interface

1.2.1. Radio Status

The Radio Status screen provides a detailed look at AN100/300 radio settings and performance.

Figure 7. Radio Status

araknis	WIRELESS INTERFACE STATUS		System Time: 2014-08-08 01:32:	30 System Uptime: 03:28:27
STATUS SYSTEM	Radio Status			
		2.4GHz	5GHz	
SETTINGS	Interface Status	Enabled	Enabled	
LAN	Operation Mode	Access Point	Access Point	
WIRELESS	Wireless Mode	802.11 B/G/N	802.11 A/N	
SECURITY	Channel Bandwidth	O 20MHz	40MHz	
	Channel Selection	Auto	Auto	
PING	Operating Channel	O Channel 6	Channel 149	
TRACEROUTE	Channel Frequency	2.437 GHz	5.745 GHz	
SPEED TEST	тх	0 Bytes	738189248 Bytes	
FILE MANAGEMENT RESTART	RX	0 Bytes	4180987 Bytes	

Path Status, Wireless Interface, Radio Status

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Interface Status Indicates whether the 2.4/5GHz Wireless Interface is Enabled or Disabled.
- Operation Mode Indicates the current function of the AN100/300 2.4/5GHz Wireless Interface. (Access Point)
- Wireless Mode Indicates the Wireless Mode for the 2.4/5GHz Wireless Interface. (802.11b/g/n; 802.11a/n)
- Channel Bandwidth Indicates the bandwidth of the AN100/300 operating channel. (20MHz or 40MHz)
- Channel Selection Indicates the channel selection mode of the AN100/300 2.4/5GHz Wireless Interface. (Auto or Manual)
- Operating Channel Indicates the selected channel for the AN100/300 2.4/5GHz Wireless Interface.
- Channel Frequency Indicates the frequency of the selected channel for the AN100/300 2.4/5GHz Wireless Interface.
- **TX** Live counter of data, in bytes, transmitted on each radio interface.
- **RX** Live counter of data, in bytes, received on each radio interface.

1.2.2. Wireless Network

The Wireless Network screen provides a detailed look at general AN100/300 wireless network settings.

Figure 8. Wireless Network Status

	Wireless Network								
O ADVANCED	Wireless Network(SSID)	Enabled	Interface	Security 3	VLAN ID	MAC Address	Broadcast SSID®	Station Separation®	
Apply Changes (araknis_initial	Yes	2.4GHz	None	1	88:DC:96:1D:33:6C	Yes	No	
Apply Changes: 0	araknis_initial	Yes	5GHz	None	51	88:DC:96:1D:33:6D	Yes	No	

Path Status, Wireless Interface, Wireless Network

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Wireless Network(SSID) Indicates the network name (SSID) of a AN100/300 wireless network.
- Enabled Indicates that a AN100/300 wireless network is Enabled/Disabled (transmitting/receiving).
- Interface Indicates the Operating Channel of an AN100/300 wireless network.
- Security Indicates the security mode selected for a AN100/300 wireless network.
- VLAN ID Indicates the VLAN ID a for a AN100/300 wireless network.
- MAC Address MAC Address of the AN100/300 2.4/5GHz wireless section.
- Broadcast SSID Indicates whether the network SSID is visible to other network devices and Wi-Fi discovery tools.
- Station Separation Indicates whether AN100/300 client devices connected to different SSIDs can communicate with each other.

1.2.3. Connected Clients

The Wireless Interface Status screen provides a detailed look at AN100/300 connected wireless clients their SSIDs, Interface, MAC Addresses, TX/RX data and RSSI.

Figure 9. Connected Client Status

Connected Clients							
Wireless Network(SSID) ◆	Interface	MAC Address ◆	TX(KBytes) ◆	RX(KBytes) ◆	RSSI(dBm) 🔶 🕅	Release	

Path Status, Wireless Interface, Connected Clients

Parameters

- Wireless Network (SSID) Indicates the SSID of a connected wireless client. (Populates as clients connect)
- Interface Indicates the Channel Frequency of a connected wireless client.
- MAC Address Indicates the MAC Address of a connected wireless client.
- TX (KBytes) Live counter of data, in kilobytes, transmitted by AN100/300 to a connected wireless client.
- RX (KBytes) Live counter of data, in kilobytes, received by AN100/300 from a connected wireless client.
- **RSSI (dBm)** Indicates the wireless signal strength of a connected wireless client. The lower the value the stronger the signal.

Pro Tip – If the client RSSI is -90dBm or higher, the client is very far from the network and is connected at a very slow speed that affects other connected devices on the network.

 Release – Click the Yes button to drop a client from the network. (Button appears when clients are connected, not shown in default screen image.)

2. Settings Menu

2.1. System Settings

The System Settings screen allows configuration of AN100/300 system settings such as System Name, User Name and Password, Admin Access and settings, Wi-Fi Scheduler, System Date and Time and Time Zone.

Figure 10. System Information

System Information			
System flame	araknis		
Granting Made	Q 24GHz Interface Access P	'ors	
	SCH2 Hertace Access P	PONT	
Admin Username	araknia		
Admin Current Password			
Admin New Password		É.	
Confirm Admin New Password			
Eystem LED	O ON OFF		
Management VLAN	😐 🕘 nuabbez 🐑 Labbe	4096	
Vi-Fi Scheduler Statue	Enace @ Disace	NOTE Planes sealing the Time Zone Bettings of school of	om was the shell making he bull Biteston
V/reess Radio	2.4GHz +		
SSID Selection	arskna_nitel 🗸		
Schedule Tempiates	Choose a tempiata	1. A	
	Onj	Availability	Dutation
	sunday	available 🖉	00 100 - 24 100
Schwaue Talow	Monday	avalable _	00 00 24 00
	Tuesday	evelable _st_	00 00 ~ 24 00
	Wednesday	avalabe 🕌	00 00 14 24 00
	Thursday	avalatin w	00 00 + 24 00
	Priday	avalatre 🔔	00 00 10 24 00
	Saturday	avalable 🔔	00 100 ~ 24 100
	4		
Manually Set Date and Time			
Date: 2014 / 06 / 11			
Tree: 12 1 33 (24-Hour)			
Synchronize with PC			
Automatically Get Date and Time			
NTP Server: Sime.nist.gov			
2007 (1 - 6-1)			
Time Zone			
Time Zone: UTC-05:00 Eastern Time	x		
chape capignt saving			
starts uproperty [_] Tet [_ Sun [_] 12 am [_]			

Path Settings, System

2.1.1. System Information

The System Information section allows configuration of AN100/300 admin and access settings.

Figure 11. System Information

araknis	SYSTEM SETTINGS		(C) typetienen Timmer (1074-106-1012) SALTH (C) Steptimen Uppfinger (100-10
STATUS	System Information		
SETTINGS	Bystom Namo	araknis	
SYSTEM		240rtz Interface Access Point	
AMAELE33	Operation Mode	SGHz martate Access Point	
ECORITY	Admin Username	arakms	
NUTERANCE	Admin Current Password		
NICENDUTE	Admin New Password		
RED TEAT	Confirm Admin New Password		
FATLET	Tystem LED	0 0 0v 0 0m	
00007	Management VLAN	 Urtagget (*) Tagget (4396) 	



Parameters

 System Name – Enter a meaningful name such as Jones Home or Jones Home AV Network. DEFAULT: an100/an300 depending upon model.

NOTE 1: Do not use spaces or special characters when creating the System Name.

NOTE 2: After a new System Name has been applied, the System Name can be included in a URL to access the AN100/300. Example: If the system name is 'bedroom', the user can use the following URL to access the web interface to the AN100/300: http://config.bedroom.wap

- Admin Username Enter the username that will be used to login to the AN100/300. DEFAULT: araknis
- Admin Current Password Enter the current password to login to the AN100/300. DEFAULT: araknis
- Admin New Password Enter a new password to change the AN100/300 password.
- Confirm Admin New Password Re-enter the exact same information entered in Admin New Password to confirm the new password.
- System LED Select ON to leave AN100/300 System LED ON. Select OFF to turn AN100/300 System LED OFF OPTIONS: ON/OFF DEFAULT: ON
- Management VLAN The VLAN ID the web interface of the AN100/300 can be accessed on. Example: If a VLAN is configured as Management VLAN=10, the user can only access the AN100/300 web interface through VLAN 10. DEFAULT: Untagged.

CAUTION: Changing this setting may result in the loss of connectivity to the AN100/300. If this should occur, the only way to regain connectivity is to restore the hardware factory default settings. (Press AN100/300 Reset button for 10 seconds.)

Configuration Instructions

To configure System Information:

- 1. Click Settings, System.
- 2. Specify the System Information Settings.
- 3. Click Save.

2.1.2. Wi-Fi Scheduler

The Wi-Fi Scheduler can be used to determine when AN100/300 wireless networks are available/unavailable for use. The scheduler is based on a 24 hour clock, with 00:00 being 12:00AM, the start of a given day, and the network is enabled. 12:00 is 12:00PM (noon) and the network is still enabled. 24:00 is 12:00AM, the end of that same day, and the network is disabled. Consecutive days of 0:00-24:00 will have the network remain enabled.

Figure 12. Wi-Fi Scheduler

Status	C Enable O Disable	Enzole Olappie NOTE Please assure that the Time Zone Settings is sproed with jour local time unan enzoing the Wirk Scheduler.					
Wireless Radio	2.4GHz y						
SSID Selection	araknis_initial 🤟						
Ronadua Tempiste Choose a tempiste							
	Day	Availability	Duration				
	Sunday	available 🛫	00 00 ~ 24 00				
	Monday	avalable 🛫	00 00 ~ 24 00				
	Tuesday	available 🐷	00 00 ~ 24 00				
Schedule Table	Wednesday	available 🕌	00 00 ~ 24 00				
	Thursday	available 🐷	00 00 ~ 24 00				
	Friday	avaiable 🔔	00 00 ~ 24 00				
	Saturday	available 🔔	00 00 ~ 24 00				

Path Settings, System

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Status Select Enable to turn the Wi-Fi Scheduler ON. Select Disable to turn the Wi-Fi Scheduler OFF. OPTIONS: Enable/Disable; DEFAULT: Disable
- Wireless Radio Select 2.4GHz or 5GHz for the channel frequency to be scheduled. OPTIONS: 2.4GHz, 5GHz; DEFAULT: 2.4GHz.
- SSID Selection Select the SSID for the specific radio (2.4GHz/5GHz) to be scheduled.
- Schedule Templates Create different Wi-Fi schedules using the Templates as detailed below:

Choose a Template – Select the template that matches the schedule requirements.

Always Available – 00:00-24:00. The wireless network is always ON.

Available 8-17 Daily – 08:00-17:00. The wireless network is ON at 8:00AM and OFF at 5:00PM.

Available 8-17 Daily Except Weekends – 08:00-17:00. The wireless network is ON at 8:00AM and OFF at 5:00PM Monday-Friday and always OFF on Saturday and Sunday.

Custom Schedule – Allows custom configuration of the wireless network ON/OFF schedule based upon user requirements.

Availability – Select Available, by day, to configure wireless network ON when setting up a Custom Schedule or to override the settings in a Schedule Template. Select Unavailable, by day, to configure wireless network OFF when setting up a Custom Schedule or to override the settings in a Schedule Template.

Duration – Double click the text blocks to set wireless network ON/OFF times. The first two blocks are turn ON time in hours/minutes. The second two blocks are turn OFF time in hours/minutes. The Scheduler works on a 24 hour clock. Example: to set a turn ON time of 8:30AM, enter '08' in the first block and '30' in the second block; to set a turn OFF time of 5:30PM, enter '17' in the first block (12+5=17) and '30' in the second block.

Configuration Instructions

To configure the Wi-Fi Scheduler settings:

- 1. Click Settings, System.
- 2. Specify the Wi-Fi Scheduler Settings.
- 3. Click Save.

2.1.3. Date and Time Settings

The Date and Time section allows configuration of AN100/300 Date and Time settings.

Figure 13. Date and Time Settings

Date and Time Settings
Manually set Date and Time
Delix: [2014] # [08] # [11]
Tme: 12 : 23 (#Hour)
Synchronize with PC
Automatically Get Date and Time
NTP server; [tme.nist.gov

Path Settings, System

Parameters

The Date and Time Settings set the 'real world' time reference for all AN100/300 functions.

• Manually Set Date and Time - Select to manually set Date and Time

Date - Enter the Year, Month and Date (four digits for year; two digits for month, date)

Time – Enter the hour and minutes for the correct current time. Use a mobile device or satellite clock for accuracy.

- Synchronize with PC Click this button to automatically sync the AN100/300 to a connected computer.
- Automatically Get Date and Time Select to automatically get date and time from various web resources.

NTP Server – Select an NTP (Network Time Protocol) Server to set reference standard date and time. DEFAULT: time.nist.gov.

Configuration Instructions

To configure Date and Time Settings:

- 1. Click Settings, System.
- 2. Specify the Date and Time Settings.
- 3. Click Save.

2.1.4. Time Zone

The System Settings screen allows configuration of AN100/300 Time Zone settings.

Figure 14. Time Zone

Time Zone
Time Zone: UTC-05:00 Eastern Time
Enzis Depight Saving
start: January 🔍 1st 🔍 Sun 🔍 12 am 🔍
End January w 1st w Mon w 12 am w

Path Settings, System

Parameters

- Time Zone Select the appropriate Time Zone from the drop-down.
- Enable Daylight Saving Select to enable. DST start/end can change from year to year. Be sure to update this information.

Start – Select the Month, Date, Day and Time Daylight Saving Time starts.

End – Select the Month, Date, Day and Time Daylight Saving Time ends.

Configuration Instructions

To configure Time Zone Settings:

- 1. Click Settings, System.
- 2. Specify the Time Zone.
- 3. Click Save.

THIS INFORMATION LEFT IN FOR USE IN SAVE/CANCEL INSTRUCTIONS. THIS WILL NOT BE PART OF THE FINAL TEXT.

Save/Cancel

- **Save** Click to save changes to the System Settings. The changes should appear as a numeric value on the Apply Changes button.
- **Cancel** Click to cancel changes to System Settings.
- Apply Changes Click to apply saved changes to System Settings. The Unsaved Changes List should appear.
- Apply Click Apply at the bottom of the Unsaved Changes List to implement changes.
- Revert Click to cancel Unsaved Changes List. No changes will have been made.
- Navigate to desired AN100/300 setup screen or Exit setup.

2.2. LAN Settings

The LAN Settings screen allows configuration of the AN100/300 LAN connection to the network router. In default mode the IP Settings section will show the DHCP IP Address and default Subnet Mask. A Static IP Address, Subnet Mask, Default Gateway and DNS Settings can be configured by disabling DHCP. LAN speed can be configured in the Interface Settings section.

Figure 15. LAN Settings

IP Settings		
IP Address	10 102 107 24	
Subnet Mask	265 255 0 0	
Default Gateway	10.102.0.1	
Primary DNS	10.102.0.1	
Secondary DNS	8535	
DHCP	Enable	
Interface Settings		
Speed	Auto	
Duplex	Full 🐑	
P. C.		Save Cancel
		And and



2.2.1. IP Settings

The IP Settings section allows configuration of the AN100/300 IP Address. In default mode the IP Settings section will show the DHCP IP Address and default Subnet Mask. A Static IP Address, Subnet Mask, Default Gateway and DNS Settings can be configured by disabling DHCP.

Figure 16. IP Settings

araknis			⊖ System Time: 30/4 07/29 21:23 47 ⊙ System Uptime: 74 27:17:00
LITTLE .	LAN SETTINGS		
SYSTEM	IP Settings		
WIRELESS INTERVACE	IP Address	10 102 107 24	
SYSTEM	Subnet Mask	255 255 0 0	
WIRELESS	Default Gateway	10.102.0.1	
MAINTENANCE	Primary DNS	10.102.0.1	
PING.	Secondary DNS	8888	
SPEED TEST	DHCP	📋 Enable	

Path Settings, LAN, IP Settings

Parameters

NOTE: DHCP is the default setting. If a Static IP Address has been assigned, but DHCP is selected, the assigned Static IP Address (and Subnet Mask) will be shown, (grayed out) and the Dynamic Address will be active. To confirm the active AN100/300 IP Address, see: System Status screen/LAN Information/IP Address.

- IP Address Uncheck 'DHCP Enable' to enter a Static IP Address for the AN100/300. Use of a Static (permanent) IP Address is recommended. If using a Static IP Address be sure the Network Router is configured to allow Static IP Addresses and that the IP Address used is within the network address scheme. DEFAULT: 192.168.20.253
- Subnet Mask Enter the Subnet Mask for the AN100/300. DEFAULT: 255.255.255.0
- Default Gateway With DHCP disabled, enter the Default Gateway for the AN100/300 (Network Router IP Address).
 DEFAULT: Network Router IP Address
- **Primary DNS** With DHCP disabled, enter the Primary DNS for the AN100/300. This will typically be the Network Router IP Address. DEFAULT: 0.0.00

NOTE: The Primary and Secondary DNS Addresses are required when setting up a Static IP Address.

 Secondary DNS – With DHCP disabled, enter the Secondary DNS for the AN100/300. This will typically be the Network Router IP Address. DEFAULT: 0.0.0.0

NOTE: The Primary and Secondary DNS Addresses are required when setting up a Static IP Address.

DHCP – Select to allow automatic assignment of AN100/300 IP Address via the Network Router. De-select to allow configuration of a Static IP Address. Use of a Static IP Address is recommend for this device. DEFAULT: Enable.

Configuration Instructions

To configure IP Address Settings:

- 1. Click Settings, LAN.
- 2. Specify the IP Settings.
- 3. Click Save.

2.2.2. Interface Settings

The Interface Settings section allows configuration of the AN100/300 LAN Speed and Duplex settings.

Figure 17. Interface Settings

HE-STAH)	Interface Settings		
LENGORT	Speed	Auto •	
O ADVANCED	Dupléx	Fall 🕈	
Apply Changes: 0			Save Cancel

Path Settings, LAN

Parameters

- Speed Select LAN speed from the drop-down. OPTIONS: Auto,1Gbps (300 Series only); 100Mbps; 10Mbps; Disable. (Disable turns the WAN100/300 LAN Port OFF.) DEFAULT: Auto
- Duplex The current negotiated duplex setting between the AN100/300 and Network Router. OPTIONS: Half and Full.
 DEFAULT: Full

NOTE: 1Gbps requires and will default to Full Duplex.

Configuration Instructions

To configure Interface Settings:

- 1. Click Settings, LAN.
- 2. Specify the Interface Settings.
- 3. Click Save.

2.3. Wireless Settings

The Wireless Settings section allows configuration of the AN100/300 wireless settings and connections including 2.4GHz and 5GHz Radio settings, setup and configuration of Wireless Networks (SSIDs) and all required wireless modes, channels, security settings and Guest Network configuration.

Figure 18. Wireless Settings

		2.4GHz			SGHz		
Enable Interf	809	Ves			VH 1		
Wireless Mo	20	9 802.11 B/G/N			802.11 A/N		
Operating C	annel	Auto			Auto		
Channel Bar	awiath	0 20 MHz 🖵			40 MHz 💌		
Extension C	annel	Upper Channel			Lower Channel 🚽		
Wireless N	tworks						
		O Interfere	le anno		D Broutout \$200	Channel Insisting	0.00
Enable	Name (\$SID)	U Intertace	security Mode	Band Steering	C Drosocast salo	Channel Bolation	0 00
Enable Ves	hame (550) araknis_initial ork	Both 🛫	Security Mode	Band Steering	○ Droucest 2300 ⑦ Y86	Enable	
Enable Ves Guest Netw Enable	Name (SSO) araknis_intial ork Name (SSO)	Both 🐷	Security Mode	Band Steering	Vie Broadcast SSD	Channel Isolation	
Enable Guest Netw Enable Yes	Iname (180) arakind_initial ork fame (180) Araind=2.4_GuestNetwork	Both v	Security Mode Spen	Band steering Ves	Broadcast SBD	Channel Kolation	
Enable Ves Guest Netw Enable Ves Ves	Iname (180) analong_initial ork Name (180) Analong 2,4_GuestNetwork Analong 3,0_GuestNetwork	Edit	Security Mode Gpen Gpen Security Mode None None	Band steering	Biodeal SD	Channel Notation Channel Notation Channel Notation Channel Notation Channel Notation Channel Notation	
Enable Ves Guest Netw Enable Ves Yes Manual IP &	Iname (180) ansknis "Initial ork Name (180) Arsknis 2.4. GuestNetwork Arsknis 3.0. GuestNetwork Imge	Cott	Security Mode Gran Gran Security Mode None None None	Band Steining	Broadcast SBD Ves Droadcast SBD Ves Ves	Channel Isolation	
Enable Guest Netw Guest Netw Fnable Yes Nanual IP 50 Gateway IP Av	Name (1800) arsknis_initial ork Name (1800) Arsknis-0.4_OutstNetwork Arsknis-0OutstNetwork titigs totess	East East East East East 192 168 200 1	Security Mode	Band Steering	Broadcast SBD	Channel Isolation	
Enable Guest Netw Guest Netw Enable Yes Yes Manual IP 6e Gateway IP Ar Subnet Mask	Iname (180) arsknis_initial ork Name (180) Arsknis-2.4_GuidsNetwork Arsknis-3.0_GuidsNetwork tings dress	East East East East 192.168.200.1 255.255.0	Security Mode Gyan Gyan Security Mod None None	Band Steering	Broadcast SBD	Channel Kolston	
Enable Guest Netw Enable Yes Yes Manual IP Se Subnet Mass Automatic D	Itama (180) araking_initial ork file fame (180) Arakins-0_GuestNetwork Arakins-0_GuestNetwork titigs tothes tothes tothes	Both	Security Mode Coven Coven None None	Band Heering	Broadcast SBD	Channel Kouton	
Enable Ves Guest Netw Enable Ves Ves Manual IP Se Gateway IP Ar Subnet Mass Automatic D Starting IP A	Iname (180) arasims_initial ork Name (180) Arakins_4_GutstNetwork Arakins_5_0_GutstNetwork tings foreas fore Server Settings Sorres	Edit 1922 168 200 1 1922 168 200 1 1922 168 200 10 1922 168 200 10	Security Mode Coven	Band Steering	Ecodeal SED	Channel Koulton	
Enable Guest Netw Enable Yes Guest Netw Enable Yes Manual IP & Gatewy IP A Subnet Mass Automatic D Starting IP A Ending IP A	Iname (180) araskina junital ork Hame (180) Arakina-2.4_GukstNetwork Arakina-3.4_GukstNetwork tinge Kores CP Server settings Sores Sores Sores Sores	Edit Edit Edit Edit 192.168.200.1 255.255.0 192.168.200.100 192.168.200.100	Security Mode Coven Security Mode None None	Band Sterng	Biodeal SEC	Channel Kelebon	

Path Settings, Wireless

2.3.1. Radio Settings

The Radio Settings section allows configuration of the AN100/300 radio settings including wireless modes, operating channels, channel bandwidth and extension channel.

Figure 19. Radio Settings

araknis	WIRELESS SETTINGS	cı	OUD SERVER: Connected	🕥 äystem Time: 2014-08-06 17:48:42	🕑 šystem Uptime: 00:05:23
STATUS SYSTEM	Radio Settings				
RETTU/28		2.4GHz	SGHz		
SYSTEM	Enable Interface	V 186	Ves		
LAN	Wireless Mode	9 802.11 B/G/N 📮	802.11 A/N 🖵		
BECURITY	Operating Channel	Auto	Auto 💌		
MAINTENANCE	Channel Bandwidth	20 MHz 🖵	40 MHz 🜉		
TRACEROUTE	Extension Channel	Upper Channel	Lower Channel		

Path Settings, Wireless

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Enable Interface Select Yes to activate the 2.4GHz/5GHz Channel. Each radio interface can be enabled/disabled individually. DEFAULT: Yes.
- Wireless Mode Select the appropriate wireless mode for the 2.4GHz/5GHz band. OPTIONS (2.4GHz): 802.11b/g/n; 802.11b/g; 802.11b; 802.11g; 802.11n (2.4Ghz); OPTIONS (5GHz): 802.11a/n; 802.11a; 802.11n (5GHz). DEFAULT: 2.4GHz 802.11b/g/n; 5GHz 802.11a/n.
- Operating Channel Select the desired Wi-Fi Channel. Use a different channel than other APs on the network. Try to select a channel that is as far away from potentially conflicting channels as possible. OPTIONS: See on-screen dropdown. DEFAULT: Auto.

NOTE: On the 2.4Ghz radio there are only three non-overlapping channels - 1, 6 and 11.

PRO TIP: The AN100/300 features a Site Survey tool that shows all 2.4GHz/5GHz networks, their channels, signal strengths, etc. Use this tool to scan the wireless neighborhood to determine the channel with the least amount of interference for the AN100/300. See: Advanced Settings/Site Survey.

- Channel Bandwidth Select 20/40MHz for auto select; Select 20MHz for better performance as needed; select 40MHz for greater speed as needed. This option is only available in 802.11n modes. OPTIONS: 40MHz; 20/40MHz; 20MHz. DEFAULT: 2.4GHz 20MHz; 5GHz 40MHz.
- Extension Channel If Channel Bandwidth is set to 20/40MHz or 40MHz, the Extension Channel gives the option
 of extending the 20MHz channel to an upper or lower channel to achieve 40MHz bandwidth. Use the AN100/300 Site
 Survey, (Advanced Settings/Site Survey) to analyze the wireless neighborhood and select upper or lower depending
 upon where there is less traffic from other wireless devices. This option is only available when Wireless Mode is set to
 an 802.11n mode and Channel Bandwidth is set to 20/40MHz or 40MHz. OPTIONS: Upper Channel/Lower Channel;
 DEFAULT: 2.4GHz Upper Channel; 5GHz Lower Channel.

Configuration Instructions

To configure Radio Settings:

- 1. Click Settings, Wireless.
- 2. Specify the Radio Settings.
- 3. Click Save.

2.3.2. Wireless Networks

The Wireless Networks section allows configuration of AN100/300 wireless networks (SSIDs), security settings, band steering and channel isolation.

Figure 20. Wireless Networks

	FILE MANAGEMENT	Wireless Net	works						
	RESTART	Enable	Name (\$SID) 0	Interface	Security Mode	Band Steering 0	Broadcast \$SID 0	Channel Isolation	Delete
	LOGOUT	Ves	araknis_initial	Both 🖕	Open *	The Yes	Ves	Enable	
•	ADVANCED								

Path Settings, Wireless

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Enable Select Yes to turn a Wireless Network ON. DEFAULT: Selected.
- **Name (SSID)** Enter the network name for the specific network being configured. DEFAULT: araknis_initial; (Blank when adding a network).
- Interface Select 2.4GHz/5GHz or Both Channel Frequency. OPTIONS: 2.4GHz, 5GHz, Both. DEFAULT: Both, (2.4GHz when adding a network).
- Security Mode Configure the Security Mode for each wireless network. Select a Security Mode from the drop-down to open the Wireless Security Setup Window window.

Wireless Security (All Modes)

- 1. Name (SSID) The network name of the network being configured
- Security Mode Select a Security Mode from the drop-down. Use the same Security Mode used by the network router and all other APs on the same network. OPTIONS: Open; WPA2-PSK; WPA2-PSK Mixed; WPA2; WPA Mixed. DEFAULT: Open
- Encryption The Encryption Mode will default to the Security Mode selected. DEFAULTS: WPA2-PSK will
 default to AES; WPA2-PSK Mixed will default to Both (TKIP+AES); WPA2 will default to AES; WPA Mixed will
 default to Both (TKIP+AES).
- 4. Passphrase Enter the appropriate passphrase for the wireless network being configured. If using the ASCII format, the password must be 8-63 characters in length. If using HEX, the password must be 64 HEX characters in length. DEFAULT: Blank
- 5. Group Key Update Interval Enter a value to specify how often in seconds the Group key changes. RANGE: 30-3600. DEFAULT: 3600 (60 minutes)
- 6. Save Click to save changes to the Wireless Security Settings for this network. The window will close. The changes should appear as a numeric value on the Apply Changes button. Proceed with setup if additional changes are required, or proceed to Save/Cancel at the end of this section.
- 7. **Cancel** Click to cancel changes to the Wireless Security Settings for this network. The window will close. Proceed with setup if additional changes are required.

If using WPA2 or WPA2 Mixed:

- 8. Radius Server Enter the Radius Server IP Address. DEFAULT: Blank
- 9. Radius Port Enter the Radius Server connection port number. This is a dedicated TCP/UDP port and would typically not be changed. DEFAULT: 1812
- **10.** Radius Secret Enter the Radius Server connection secret. DEFAULT: Blank
- **11. Radius Accounting** Select Enable to enable Radius accounting. Select Disable to disable Radius Accounting. DEFAULT: Disable
- 12. Radius Accounting Server Enter the Radius Accounting Server IP Address. DEFAULT: Blank
- **13.** Radius Accounting Port Enter the Radius Accounting Server connection port number. This is a dedicated TCP/UDP port and would typically not be changed. DEFAULT: 1813
- 14. Radius Accounting Secret Enter the Radius Accounting Server connection secret. DEFAULT: Blank

- **15.** Interim Accounting Interval Enter a value for how often the accounting data will be sent, in seconds. RANGE: 60-600. DEFAULT: 600 (10 minutes)
- **16.** Save Click to save changes to the Wireless Security Settings for this network. The window will close. The changes should appear as a numeric value on the Apply Changes button. Proceed with setup if additional changes are required, or proceed to Save/Cancel at the end of this section.
- **17. Cancel** Click to cancel changes to the Wireless Security Settings for this network. The window will close. Proceed with setup if additional changes are required.
- Broadcast SSID Select Yes to have the SSID appear on wireless devices for connectivity. DEFAULT: Yes
- **Band Steering** Enable Band Steering to assign 802.11n clients to the 5GHz band and 802.11b/g clients to the 2.4GHz band. This will relieve the traffic on both bands and provide better service to all affected clients. Band Steering works within the Access Point by directing 5GHz capable clients to the 5GHz band. The SSID and Security Settings must be the same in both the 2.4Ghz and 5GHz bands to have Band Steering work properly.
- Channel Isolation Select to prevent communication between wireless clients on the same network. DEFAULT: Not selected.
- Add Click the Add button to add a Wireless Network.
- Delete Click the Trash icon to delete a Wireless Network.

Configuration Instructions

To configure Wireless Networks:

- 1. Click Settings, Wireless.
- 2. Specify the Wireless Network Settings.
- 3. Click Save.

2.3.3. Guest Network

The Guest Network section allows configuration of the AN100/300 Guest Network SSID settings for 2.4GHz/5GHz interface, security modes. Manual Guest Network Wireless IP Settings and Automatic DHCP Server settings can also be configured in this section.

Figure 21. Guest Network

Name (\$SID)	Eait	Security Mode	Broadcast \$SID	Channel isolation
Araknis-2.4_GuestNetwork	Edit	None	Ves	Chable
Araknis-5.0_GuestNetwork	Edit	None	Ves	🖌 Enable
ings				
57855	192.168.200.1			
	255.255.255.0			
CP Server Settings				
dress	192.168.200.100			
iress	192.168.200.200			
P	0.0.0.0			
	Name (BBD) Araknis-2 4_CUVESTNetwork Araknis-5 0_CUVESTNetwork Araknis-5 0_CUVESTNetwork Araknis-5 0_CUVESTNetwork CP Server Settings CP Server Settings P	Name (SRD) Exit Araknis-2 4_QUest/Vetwork EXIt Araknis-5 0_QUest/Vetwork EXIt Araknis-5 0_QUest/Vetwork EXIt Ops 192 168 200.1 CP Server Settings 192 168 200.100 Tess 192 168 200.200 Ops 192 168 200.200 Person 192 168 200.200	Kat Security Mode Arakina -2.4_Guest/Matwork Edit None Opport 255 255 255 0.0	Edit Sacurity Mode Broedcast SBD Analma (SBD) Edit None If Mail Analma -2 4_ouestNetwork Edit None If Mail Operative

Path Settings, Wireless

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Enable Select to create a Guest Network. This will allow guests to log in to the wireless system without having to compromise network security by giving guests the password to the home network. There are separate 2.4GHz and 5GHz Guest Networks. If the guest is using an 802.11b/g device, (2.4GHz) they will only need the password to the 2.4GHz Network. If the guest is using an 802.11b/g/n device (5GHz) they will need the password to the 5GHz Network, and if the guest is using a device that can connect on both 2.4GHz and 5GHz, (iOS devices) they should have both, particularly if Band Steering has been enabled, (see previous section). DEFAULT: Not Selected.
- **SSID** Enter an SSID for the Guest Network. DEFAULTS: Araknis-2.4_GuestNetwork; Araknis-5.0_GuestNetwork
- Edit Click the Edit button to open the Guest Network Security Setup Window.
 - 1. Security Mode Select a Security Mode from the drop-down. Use the same Security Mode used by the network router and all other APs on the same network. Leaving the Security Mode 'Open' is not recommended. OPTIONS: Open, WPA2-PSK, WPA2-PSK Mixed. DEFAULT: Open
 - 2. Encryption The Encryption Mode will default to the Security Mode selected. DEFAULTS: WPA2-PSK will default to AES; WPA2-PSK Mixed will default to TKIP+AES.
 - Passphrase Enter the appropriate password for the Guest Network. If using the ASCII format, the password must be 8-63 characters in length. If using HEX, the password must be 64 HEX characters in length. DEFAULT: Blank
 - **4. Group Key Update Interval** Enter a value to specify how often in seconds the Group key changes. RANGE: 30-3600. DEFAULT: 3600 (60 minutes)
- Security Mode This indicates the Security Mode and Encryption selected in the Edit Mode, previous. DEFAULT: None
- **Broadcast SSID** Selecting this option will allow the Guest Network SSID to appear in 'Network Lists' on wireless devices for user login. If not selected, the user will have to know the SSID and enter it manually to access the network. DEFAULT: Un-selected.
- Client Isolation Select to prevent communication between wireless clients on the Guest Network. DEFAULT: Selected.
- Manual IP Settings If the network router allows setup of subnets or VLANs, use the AN100/300 defaults or manually enter IP Address settings that conform to the network router capability. If the network router does not allow subnets, use IP Address settings from the IP Address scheme currently set on the network router.
 - 1. Gateway IP Address Enter the AN100/300 Guest Network Gateway IP Address. DEFAULT: 192.168.200.1
 - 2. Subnet Mask Enter the Subnet Mask for the AN100/300 Guest Network Gateway. DEFAULT: 255.255.255.0

- Automatic DHCP Server Settings
 - 1. Starting IP Address Enter the lowest address available for the Guest Network. DEFAULT: 192.168.200.100
 - 2. Ending IP Address Enter the highest address available for the Guest Network. DEFAULT: 192.168.200.200
 - 3. WINS Server IP Enter the IP Address for the WINS Server for the Guest Network. DEFAULT: 0.0.0.0

Configuration Instructions

To configure Guest Network:

- 1. Click Settings, Wireless.
- 2. Specify the Guest Network Settings.
- 3. Click Save.

2.4. Security Settings

The Security Settings section allows configuration of who can login to the AN100/300 and what level of privileges they have, how the device can be accessed, email notification of system status and warnings and device discovery.

Figure 22. Security Settings

User accounts	1 million and	1 Contractor	Contrast Descent	Invested in the second s
arakrie	achini -		Contractives	
and the second		-	1	10
				Add E
Access Control				
HTTP Port	0 80			
Vyeb Access	😫 Enable 💽			
Teinet	😣 Enable 🔔			
85H	O Disable 😱			
Email Alert				
status	Enze			
From				
TO				
Subject	(Email: Alert][anatorie]]	38 DC 96 1D 33 68) Configuration Charg		
Email Account				
Username				
Password				
SMTP Server		Pert 25		
Security Mode	None			Send Test Ma
Device Discovery				
Bonjour	0 Deable 🕳			
UPnP	O Disable			

Path Settings, Security

2.4.1. User Accounts

The User Accounts section allows configuration of who can login to the AN100/300 and what level of privileges they have.

Figure 23. User Accounts

araknis					CLOUD SERVER: Connected	Sustem Time: 2014-05-11 22 27:05	System Uptime: 03:21:50
	SECURITY SETTING	35					
STATU S							
SYSTEM WIRELESS INTERFACE	User Accounts						
SETTINGS	No.	Username	Privilege Level	Password (Confirm Password	Delete	
SYSTEM		arskris	admin			ê	
VVIRELESS • SECURITY						Add Edit	

Path Settings, Security

Parameters

- Select Select to allow editing of the selected table entry. DEFAULT: Not selected.
- **User Name** Click the Edit button to allow access to the settings on a selected User Account. Enter the login Username for the selected account. DEFAULT: araknis; (Blank when adding a new account.)
- **Privilege Level** Indicates the level of device management for the logged in user. OPTIONS: admin, Status, Status+Settings. DEFAULT: admin; (Status+Settings when adding a new account.)
- Password Enter a password for user login. DEFAULT: araknis; (Blank when adding a new account.)
- **Confirm Password** Re-enter the password for the logged in user to confirm. DEFAULT: araknis; (Blank when adding a new account.)
- **Delete** Click the Delete icon to delete a specific User Account. Click the Save button to save the change. Refresh the screen to see the change.

Configuration Instructions

To configure User Accounts:

- 1. Click Settings, Security.
- 2. Specify the User Account Settings.
- 3. Click Save.

2.4.2. Access Control

The Access Control section allows configuration of how the AN100/300 can be accessed.

Figure 24. Access Control

INTENANCE	Access Control	
CEROUTE	HTTP Port	0 80
DTEST	Web Access	Enable
ANAGEMENT	Teinet	9 Enable 🔪
л	\$\$H	Disable

Path Settings, Security

Parameters

• HTTP Port – Enter device web server port to connect. DEFAULT: 80

PRO TIP: A port number, other than the default, can be assigned to enable remote access to the AN100/300 via port forwarding on the network router.

• Web Access – Select Enable or Disable to enable or disable the ability to modify the device via Web Browser. DEFAULT: Enable

CAUTION: Disabling web access will cause lost connectivity to the AN100/300 web interface. If this should occur, the only way to regain this connectivity is to restore the hardware factory default settings. (Press AN100/300 Reset button for 10 seconds.)

- **Telnet** Select Enable or Disable to enable or disable the ability to modify the device via a command line interface (CLI) through a telnet session. DEFAULT: Enable
- **SSH** Select Enable or Disable to enable or disable the ability to modify the device via a command line interface (CLI) with a secure channel. DEFAULT: Disable

Configuration Instructions

To configure Access Control:

- 1. Click Settings, Security.
- 2. Specify the Access Control Settings.
- 3. Click Save.

2.4.3. Email Alert

The Email Alert section allows configuration of the AN100/300 email notification system for status and warnings.

Figure 25. Email Alert



Path Settings, Security

Parameters

- Status Select Enable to have the AN100/300 send notifications to a specific email address in the event of certain abnormal conditions. DEFAULT: Not Selected
- From Enter the Email Address of the sender. DEFAULT: Blank
- To Enter the Email Address of the recipient. DEFAULT: Blank
- **Subject** Information regarding the nature of the system condition. DEFAULT: [Email-Alert][araknis] [88:DC:96:1D:33:6B][Configuration Changed]
- Email Account

User Name – Enter the User Name for the Email Account (Outlook, Gmail, etc) to be used to send the Email Alert. DEFAULT: Blank

Password – Enter the Password for the Email Account (Outlook, Gmail, etc) to be used to send the Email Alert. DEFAULT: Blank

SMTP Server – Enter the SMTP Server and Port Number of the Email Client (Outlook, Gmail, etc) to be used to send the Email Alert. DEFAULTS: SMTP Server Blank; Port: 25

Security Mode – Select a security mode for sending Email Alerts. OPTIONS: None, SSL/TLS, STARTTLS DEFAULT: None

Send Test Email – Click this button to send a test email to confirm Email Alert settings.

Configuration Instructions

To configure Email Alert:

- 1. Click Settings, Security.
- 2. Specify the Email Alert Settings.
- 3. Click Save.

2.4.4. Device Discovery

The Device Discovery section allows configuration of how or if the AN100/300 can search for and connect to network devices via Bonjour and UPnP.

Figure 26. Device Discovery

Dasbe 🚽	

Path Settings, Security

Parameters

- **Bonjour** Enable to allow the AN100/300 to search for and connect to network devices running Apple iOS and OS X. Bonjour can also be run on devices running a Microsoft OS. DEFAULT: Disable
- UPnP Enable to allow the AN100/300 to search for and connect to network devices via UPnP Protocol (Universal Plug and Play). DEFAULT: Disable

Configuration Instructions

To configure Device Discovery:

- 1. Click Settings, Security.
- 2. Specify the Device Discovery Settings.
- 3. Click Save.

3. Maintenance

3.1. Ping Test

The Ping Test can be used to determine if a particular IP address can be reached across an IP network.

Figure 27. Ping Test



Path Maintenance, Ping

Parameters

- Target IP / Domain Name Enter the IP Address of a device or web page to determine if it can be reached.
- Ping Packet Size Enter the packet size of each ping. DEFAULT: 64 Bytes
- Number of Pings Enter the number of ping attempts. DEFAULT: 4
- Start Click the Start button to send the Ping. Ping Test results will be displayed in the text frame. Ideal results: Same number of packets transmitted/received, 0% packet loss

Configuration Instructions

To run Ping Test:

- 1. Click Maintenance, Ping.
- 2. Specify the Ping Test Settings.
- 3. Click Start.

3.2. Traceroute Test

The Traceroute Test can be used to display the route and delays for data packets to/from a destination on an IP network.

Figure 28. Traceroute Test Parameters

araknis		🔁 Éystamy Timme: 2011 4 0/7 2012 9 20 400	😟 System Optime: (0.291010
STATUS SYSTEM	Traceroute Test Parameters		
WIRFLESS INTERACE	Target IP / Domén Name		
SETTINGS STREM LAN WHELESS SECURTY CMAINTERANCE CME •TRACEROUTE Sybb (15) SE CANACESENY	Start Stop		
E START LOGOLT ADVANCED Apply Changes: 0			

Path Maintenance, Traceroute

Parameters

- **Target IP / Domain Name** Enter the IP Address of a device or web page to show the path of communication to that device or website.
- Start Click the Start button to start Traceroute. Traceroute Test results will be displayed in the text frame.
- **Stop** Click the Stop button to stop Traceroute.

Configuration Instructions

To configure Traceroute Test:

- 1. Click Maintenance, Traceroute.
- 2. Specify the Traceroute Test Settings.
- 3. Click Start.
- 4. Click Stop to end test.

3.3. Speed Test

The Speed Test can be used to determine the upload/download speed between two devices on an IP network.

Figure 29. Speed Test Parameters

araknis	Juniers V			El System Tome: 30%4 07/25 24/25/24	Systèm Métomel: 16.2715.1
	SPEED TEST				
SYSTEM WRELESS INTERACE SETTINGS SYSTEM LAN	Speed Test Parameters				
	Target IP / Domain Name				1. Sec. 1.
	Time Period	20	940		
WIRELESS	Check Interval	\$	BBC-		
SEEDINY W ANNEE PING TRACEMONTE • SPEED TEST NEE MARGEMENT RESTART LOUGUF • ADVANCED	Sar				

Path Maintenance, Speed Test

Parameters

- Target IP / Domain Name Enter the IP Address of a device or web page to test the upload/download speed to/from that device or website.
- Time Period Enter the duration of the test in seconds. DEFAULT: 20 seconds
- Check Interval Enter the time in seconds between each test. DEFAULT: 5 seconds
- Start Click the Start button to start the speed test. Exit the screen to stop.

Configuration Instructions

To configure Speed Test:

- 1. Click Maintenance, Speed Test.
- 2. Specify the Speed Test Settings.
- 3. Click Start.

3.4. File Management

The File Management screen facilitates simple AN100/300 configuration backup and firmware updates.

Figure 30. File Management

CITORITIS	FILE MANAGEMENT		a shared many second be shared an shared from the
STATUS SYSTEM	Configuration File	100	
WIRELESS INTERFACE	Backup Current Configuration	ToPC	
SYSTEM	Upload New Configuration File	Choose File No file chosen From PC	11
SECURITY	Restore Factory Defaults	Yes	
	Firmware		
TRACENOUTE	Current Firmware Version	10.92	
SPEED TEST	Date Activated	2014-07-21 07:56:10-00:40	
RESTART	Upload New Firmware	Choose File No file chose:: Upload	
A ADATANOED			



3.4.1. Configuration File

The Configuration File section facilitates simple AN100/300 configuration backup and restoring factory defaults.

Figure 31. File Management

araknis			🧐 System Time: (2014-0/-59/25/28/02	System upume. 70.2 9 10:22
STATUS SYSTEM	Configuration File			
WITELESS INTERFACE	Backup Current Configuration	ToPC		
SYSTEM LAN	Upload New Configuration File	Choose File, No file chosen From PC		
SECURITY	Restore Factory Detaults	Yes		
WRELESS SECURITY	Restore Factory Detaults	Yours Yo		



3.4.1.1. Backup Current Configuration Configuration Instructions

To save current configuration settings:

- 1. Click the To PC button to save the current configuration of the AN100/300. The file will save to the Downloads Folder.
- 2. Look for a file with a name similar to: 'backup-AN300-YEAR-MONTH-DATE.tar.gz'. It is suggested that the file be moved to a folder containing all of the documentation for a specific project, or other easy to remember location.

3.4.1.2. Upload New Configuration File Configuration Instructions

Use the Upload Configuration File option to restore previously saved configuration settings to the AN100/300 from your local management station.

- 1. Click the Browse button to navigate to where the configuration file is saved.
- 2. Press Enter/Return on the computer keyboard or click Open on the Upload Screen to select the file. (The Configuration File name should appear next to the Upload New Configuration File Browse Button.)
- Click From PC to upload the configuration file. Please wait while the Rebooting screen is open and loading the selected configuration. When the configuration upload is finished the Authentication Required (Login) window will open.
- 4. Enter the User Name and Password.
- 5. Confirm Configuration settings.

3.4.1.3. Restore Factory Defaults

The File Management screen facilitates restoring original AN100/300 factory settings. Note that the IP Address, Subnet Mask and Gateway IP Address will be reset to their factory defaults.

Figure 32. Restore Factory Defaults

STATUS SYSTEM	Configuration File	
PETTINOP	Backup Current Configuration	To PC
SYSTEM	Upload New Configuration File	Choose File no file selected From PC
WIRELESS SECURITY	Restore Factory Defaults	Yes
MAINTENANCE PING	Firmware	ALERT The action will ense existing settings and reset all settings to factory default.
TRACEROUTE	Current Firmware Version	V0.9.1 CANCEL CONFIRM
SPEED TEST	Date Activated	2014-08-07 06:41:35 -00:20
FILE MANAGEMENT		Choose File I on file selected

Path Maintenance, File Management, Configuration File, Restore Factory Defaults

NOTE: All current settings will be permanently lost if not backed up. See Backup Current Configuration, above to backup current settings prior to executing Restore to Factory Defaults.

- 1. Click the Yes button to restore the AN100/300 to factory default settings. The red Alert! message will appear.
- Click Cancel to cancel. Click Confirm to Restore Factory Defaults. Please wait while the Rebooting screen is open and loading the selected configuration. When the configuration upload is finished the Authentication Required (Login) window will open.
- 3. Enter the User Name and Password.
- 4. Confirm Configuration settings.

3.4.1.4. Hardware Factory Default

If restoring factory defaults does not restore proper functionality to the AN100/300, a hardware reset may be performed to reload the original base configuration file (saved in the AN100/300 memory).

- 1. Using a paper clip or other small blunt tool press the reset button located on the top of the AN100/300 for approx 30 seconds.
- 2. Restart the setup process or upload a previously saved configuration.

3.4.1.5. Firmware

The Firmware section facilitates uploading new firmware to the AN100/300.

Figure 33. Firmware

	Firmware		
EROUTE	Current Firmware Version	4092	
D TEST	Date Activated	2014-07-21 07:56:10 -00:40	
ARJ	Upload New Firmware	Choose File No file chosen	



Parameters

•

- **Current Firmware Version** Indicates the current running firmware version.
- Date Activated Indicates the date that the current running firmware was uploaded and activated.

- 1. Click the Browse button to navigate to where the firmware file is saved.
- 2. Select the file and then press Enter/Return on the computer keyboard or click Open on the Upload Screen. (The Firmware File name should appear next to the Upload New Firmware File Browse Button.)
- 3. Click Upload. The Upload Firmware Information screen will open.
- 4. Click Upgrade. Please wait while the new firmware loads. When the configuration upload is finished the Authentication Required (Login) window will open.
- 5. Enter the User Name and Password.
- 6. Confirm Firmware version.

3.5. Restart

In the unlikely event that the AN100/300 locks up or has otherwise become unresponsive, it can be rebooted to return it to its previous, normal operating state.

Figure 34. Restart

araknis		🕒 Systum Time: 2014-0/59/21/27/20 🕓 Systum upume: 10/21/2014
ettesti.	RESTART	
STATUS		
SYSTEM	Rebot the device	
WIRELESSINTERFACE	Caution: Pressing this button will cause the device to reboot.	
I SETTINGS	Reboot the Device	

Path Maintenance, Restart

- 1. Click the Reboot the Device button. The 'This will reboot the device and may take a few seconds' message will appear.
- 2. Click OK to reboot; Click Cancel to return to the Restart Screen.
- 3. Please wait while the AN100/300 reboots. When the device has rebooted, the Authentication Required (Login) window will open.
- 4. Enter the User Name and Password.
- 5. Confirm Firmware and configuration.

3.6. Logout

Logout can be used to change the user currently logged in to AN100/300 setup. When finished working in the AN100/300 setup up screens, a logged in user can simply close the Browser Tab with the AN100/300 Setup or Logout. Closing the Browser Tab will close setup screen completely, Logout will end the session for the logged in user and open the Authentication Required (Login) window.

Figure 35. Logout Alert

arakinis		Construction Construction Construction
STATUS STOTAL Wall / 4 americka Stotal Stotal	Reboot the device Crubic Present the batton will crease the startice to reboot. Reboot the Device	

Path Maintenance, Logout

- 1. From any screen click Logout in the system menu. The Logout Alert! will appear on screen.
- 2. Click Cancel to return to the setup screen; click Confirm to Logout the current user.

4. Advanced

4.1. Advanced Wireless Settings

The Advanced Wireless Settings section allows configuration of AN100/300 radio settings for unit of measure, data rate, power and RTS/CTS Threshold as well as a client limit by band, (2.4GHz/5GHz).

Figure 36. Advanced Wireless Settings

ADVANCED WIDELESS SETTINGS		CLOUD SERVER: Connected	System Time: 2014-08-12 04:23:58	System Uptime: 00:55
Radio Settings				
Transmit Power Unit	(a) dām (c) mili			
Data Rate	Auto			
Transmit Power	0 Full 100%-25 dBm 🔪			
RTSICTS Threshold (Range:1-2346)	0 2346			
Client Limit				
	2.40Hz	50Hz		
Enable	Yes	195 Yes		
Max Client No.	0 127	127		
				Save Cancel

Path Advanced, Wireless Settings

4.1.1. Radio Settings

The Advanced Wireless Settings section allows configuration of AN100/300 radio settings for unit of measure, data rate, power and RTS/CTS Threshold.

Figure 37. Radio Settings

araknis	ADVANCED WIRELESS SETTINGS		CLOUD SERVER: Connected	() \$jstem Time: 2016-08-12.04.23.58	System Uptime: 00:55:25
STATUS SYSTEM	Radio Settings				
C SETTINGS	Transmit Power Unit	o dbm 🕥 mW			
SYSTEM	Data Rate	Auto			
LAN V/IRELESS	Transmit Power	O Full 100%-25 dBm 😱			
SECURITY	RTSICTS Threshold (Range:1-2346)	O 2346			

Path Advanced, Wireless Settings, Radio Settings

Parameters

- Transmit Power Unit Select the preferred unit of measure. OPTIONS: dBm, mW. DEFAULT: dBm.
- Data Rate Select a setting from the drop-down to set the available transmit data rate permitted for connected clients. A lower data rate reduces throughput, but increases the transmission range. OPTIONS: See drop-down list. DEFAULT: Auto.
- Transmit Power Select a setting from the drop-down to set the AN100/300 radio power. Increasing the power should improve performance, but can cause interference with other access points in close range that are on the same channel. OPTIONS: See drop-down list. DEFAULT: Full 100% -25dBm.
- RTS/CTS Threshold (Range:1-2346) Enter a value for the threshold package size for RTS/CTS (request to send/ clear to send). A lower number increases the frequency that the packets are sent and consumes more bandwidth. RANGE: 1-2346. DEFAULT: 2346

Configuration Instructions

To configure Radio Settings:

- 1. Click Advanced, Wireless Settings.
- 2. Specify the Radio Settings.
- 3. Click Save.

4.1.2. Client Limit

The Advanced Wireless Settings section allows configuration of AN100/300 client limit by band, (2.4GHz/5GHz).

Figure 38. Client Limit Settings





Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Enable Select to enable Client Limit, by channel. DEFAULT: Not Selected.
- Max Client No. Set the maximum number of clients that can be connected to a channel at a given time. (For WAP300, the maximum number of clients is for each channel.) RANGE: 1-127. DEFAULT: 127.

Configuration Instructions

To configure Client Limit:

- 1. Click Advanced, Wireless Settings.
- 2. Specify the Client Limit Settings.
- 3. Click Save.

4.2. Wireless MAC Filter Settings

The Wireless MAC Filter determines if wireless clients (computers, tablets, smartphones, etc.) can access the wireless network as defined by client MAC Address. Authorized clients can be configured and viewed in the MAC Filter List.



araknis			CLOUD SERVER: Connected	() System Time: 2014-08-12 21:57:49	System Uptime: 0
STATU S SYSTEM	WIRELESS MAC FILTER SETTINGS				
ETTING S	Enable MAC Filter	Tes .			
EM	Fitter Mode	Allow Deny			
ELESS	MAC Filter List				
ENANCE	No.	MAC Address			Delete
LINITOL					Add
CEROUTE TO TEAT					Abo Et
E MANAGEMENT					Save Cano
RESTART					



4.2.1. MAC Filter Settings

The MAC Filter Settings section enables/disables AN100/300 Wireless MAC Filtering.

Figure 40. MAC Filter Settings

araknis	WIRELESS MAC FILTER SETTINGS	CLOUD SERVER:	Connected () System Time: 2014-08-12 21 57:49	System Uptime: 00:53:10
STATUS SYSTEM	MAC Filter Settings			
SETTINGS	Enable MAC Filter	The second secon		
SYSTEM	Filter Mode	Allow Dety		

Path Advanced, MAC Filter

Parameters

- Enable MAC Filter Select to enable MAC Filtering. DEFAULT: Not Selected.
- Filter Mode Select Allow to permit wireless clients access to the wireless network as defined by wireless client MAC Address. Select Deny to prevent wireless clients from accessing the wireless network as defined by wireless client MAC Address. OPTIONS: Allow, Deny. DEFAULT: Allow.

Configuration Instructions

To configure Wireless MAC Filter:

- 1. Click Advanced, MAC Filter.
- 2. Specify the Wireless MAC Filter Settings.
- 3. Click Save.

4.2.2. MAC Filter List

The Wireless MAC Filter List section can be used to add/delete wireless clients to be filtered by MAC Address.

Figure 41. MAC Filter Settings

WIRELESS	MAC Filter List		
MAINTENANCE	N0.	MAC ADDRES	Delete
PING			
TRACEROUTE			Add Edit
SPEED TEST			Saus Canad
FILE MANAGEMENT			dave Cancer
RESTART			

Path Advanced, MAC Filter

Parameters

- Check Box Select to enable MAC Filtering for a given wireless client.
- No. The client number for a device being filtered by MAC Address. DEFAULT: Not Available if MAC Filtering not enabled; client number in the list if MAC Filtering is Enabled.
- **MAC Address** The MAC Address of a client being filtered by MAC Address, if MAC Address filtering is enabled. DEFAULT: Blank.
- Add Click to add a new client to be filtered by MAC Address.
- Edit Click to edit an existing client.

Configuration Instructions

To configure MAC Filter List:

- 1. Click Advanced, MAC Filter.
- 2. Specify the MAC Filter Settings.
- 3. Click Save.

4.3. WPS Settings

WPS (Wi-Fi Protected Setup) is a standard of the Wi-Fi Alliance that allows quick and easy connection of wireless clients with a reduced overall setup requirement of network security settings.

Figure 42.	WPS	Settings
------------	-----	----------

SYSTEM		
VIRELESS INTERFACE	WPS Settings - 2.4GHz	C Enable Disable
ETTINGS	Status Current Configuration	Enable () Understand
YSTEM	Current Coniguration	Uncongree Telebase Corrigeration
AN IDELESS	Self-Pin Code	35062201
ECURITY	SSID	aravna_intual
AINTENANCE	Authentication Mode	None
ING	Encryption Key	none
RACEROUTE	WPS via Push Button	Stat
PEED TEST	WPS via Pin	Start
ILE MANAGEMENT		
ESTART		E
ogout		
DVANCED	WPS Settings - 5GHz	
IAC FILTER	Status	🕥 Enable 💿 Disable
WPS	Current Configuration	UnConfigured Release Configuration
AST HANDOVER	Self-Pin Code	33662261
AST ROAMING	SSID	araknis_initial
	Authentication Mode	None
TE SURVEY		None
ITE SURVEY RAFFIC SHAPING	Encryption Key	
ITE SURVEY RAFFIC SHAPING NMP PANNING TREE	Encryption Key WPS via Push Button	Start

Path Advanced, WPS

4.3.1. WPS Settings - 2.4Ghz

The WPS Settings (2.4GHz) section can be used to configure WPS for wireless 2.4GHz clients.

Figure 43. WPS Settings - 2.4GHz

araknis	WPS	CLOUD SERVER: Connected O System Time: 2014-08-12 23-43-31 O System Uptime: 00-26-44
STATUS SYSTEM	WPS Settings - 2.4GHz	
	Status	🔿 Enable 💿 Disable
SYSTEM	Current Configuration	UnConfigured Release Configuration
LAN	Self-Pin Code	33562261
WIRELESS	SSID	araknis_initial
SECURITY	Authentication Mode	None
MAINTENANCE	Encryption Key	None
PING TRACEROUTE	WPS via Push Button	Start
SPEED TEST	WPS via Pin	Start
FILE MANAGEMENT RESTART		Save

Path Advanced, WPS, WPS Settings - 2.4GHz

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Status Select Enable to enable WPS. Select Disable to disable WPS. DEFAULT: Disable.
- **Current Configuration** Indicates whether WPS is Configured or Unconfigured. OPTIONS: Configured, Unconfigured. DEFAULT: Unconfigured.
- Self-Pin Code The AN100/300 PIN Code. DEFAULT: Unique per AN100/300.
- SSID Indicates the wireless network name for the WPS enabled network. DEFAULT: araknis_initial
- Authentication Mode Indicates the Authentication Mode by WPS. DEFAULT: None
- Encryption Key The password randomly generated by WPS to authenticate wireless client connection.
- WPS via Push Button Click Start to initiate WPS via the on-screen push button.
- WPS via PIN Enter the wireless device PIN code then click Start to initiate WPS.

Configuration Instructions

To configure WPS Settings (2.4GHz):

- 1. Click Advanced, WPS.
- 2. Specify the WPS Settings (2.4GHz).
- 3. Click Save.

4.3.2. WPS Settings - 5Ghz

The WPS Settings (5GHz) section can be used to configure WPS for wireless 5GHz clients.

Figure 44. WPS Settings





Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Status Select Enable to enable WPS. Select Disable to disable WPS. DEFAULT: Disable.
- **Current Configuration** Indicates whether WPS is Configured or Unconfigured. OPTIONS: Configured, Unconfigured. DEFAULT: Unconfigured.
- Self-Pin Code The AN100/300 PIN Code. DEFAULT: Unique per AN100/300.
- SSID Indicates the wireless network name for the WPS enabled network. DEFAULT: araknis_initial
- Authentication Mode Indicates the Authentication Mode by WPS. DEFAULT: None
- Encryption Key The password randomly generated by WPS to authenticate wireless client connection.
- WPS via Push Button Click Start to initiate WPS via the on-screen push button.
- WPS via PIN Enter the wireless device PIN code then click Start to initiate WPS.

Configuration Instructions

To configure WPS Settings (5Hz):

- 1. Click Advanced, WPS.
- 2. Specify the WPS Settings (5GHz).
- 3. Click Save.

4.4. Fast Handover Settings

On a wireless network with multiple access points, as a wireless client moves from one area to another, the RSSI (wireless signal strength) may drop to a less than optimal level. If enabled, Fast Hanover will detect the condition and send a disassociation request to the wireless client, allowing the client to search for another access point with a stronger signal.

Figure 45. Fast Handover Settings

araknis	FAST HANDOVER SETTINGS	3 tr	estara Time: 2014-07,29 23,30 59	💽 System lapume. †0.21.24.00
STATUS SYSTEM	Fast Handover			
WIRELESSINTEREACE	Status	Enable · Drasble		
SETTINGS SYSTEM	RSSI	-70 dBm (Range: -60dBm ÷ -60dBm)		
LAN	-			

Path Advanced, Fast Handover

Parameters

- Status Select Enable to enable Fast Handover. Select Disable to disable Fast Handover. DEFAULT: Disable.
- RSSI With Fast Handover enabled, enter a value for the signal strength that will trigger Fast Handover. Lowering the threshold will allow more clients to stay connected, but setting the level too low will cause more frequent re-connections. RANGE: -60dBm to -90dBm. DEFAULT: -70dBm.

Configuration Instructions

To configure Fast Handover:

- 1. Click Advanced, Fast Handover.
- 2. Specify the Fast Handover Settings.
- 3. Click Save.

4.5. Fast Roaming Settings

On a wireless network with multiple access points, as a wireless client moves from one coverage area to another, the wireless client may need to change access points. If enabled, Fast Roaming identifies other APs on the wireless network, determines which will provide the best and fastest connection for a particular wireless client as it moves between AP coverage areas. Fast Roaming 'pre-approves' the client and the APs to assure a constant connection for the client to the wireless network.

Figure 46. Fast Roaming Settings

<i>araknis</i>	FAST ROAMING SETTING	s			CLOUD SERVER: Connected	• System Time: 2014-08-13 02:59:13	System Uptime: 00:05:1
STATUS SYSTEM	Fast Roaming						
AFTENOA	SSID	Interface	Security	Encryption	RADIUS Server	RADIUS Port	Fast Roaming
SYSTEM	araknis_initial	2.4GHz	Disable	Disable		1812	Enable
AN	araknis_initial	5GHz	Disable	Disable		1812	Enable
WIRELESS							Sauge Connect

Path Advanced, Fast Roaming

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- SSID Indicates the network name for the wireless network to which Fast Roaming is being applied. DEFAULT: araknis_initial.
- Interface Indicates the 2.4GHz or 5GHz Interface.
- **Security** Indicates the security mode selected for this wireless network in the Wireless Settings Screen under Wireless Networks. DEFAULT: Disabled.
- **Encryption** Indicates the encryption mode selected for this wireless network in the Wireless Settings Screen under Wireless Networks. The encryption mode will default to the selected security mode. DEFAULT: Disabled.
- Radius Server Enter the Radius Server IP Address. DEFAULT: Blank
- Radius Port Enter the Radius Server connection port number. This is a dedicated TCP/UDP port and would typically not be changed. DEFAULT: 1812
- Fast Roaming Select Enable for the 2.4GHz and/or 5GHz Interface to enable Fast Roaming.

Configuration Instructions

To configure Fast Roaming:

- 1. Click Advanced, Fast Roaming.
- 2. Specify the Fast Roaming Settings.
- 3. Click Save.

4.6. Site Survey

The AN100/300 provides a convenient on-board Wi-Fi detection tool or Wi-Fi 'sniffer'. This feature can be used to detect the presence of other 2.4GHz and 5GHz wireless networks, their modes, channels, security settings, signal strengths, encryptions, and type. Having this information can be very useful helping avoid conflicts with other networks in the wireless neighborhood.

Figure 47. Site Survey Settings

TATUS							
VIRELESS INTERFACE	Select Interface	 2.4GHz 5GHz 					
ETTINGS	Scan Nearby Networks	Scan					
AN	Result						
VIRELESS	BSSID	SSID	Mode	Channel	Signal	Encryption	Туре
ECURITY	00:1D:6A:CB:33:15	SuperHonda	AP	6	-95	WEP	11b/g
AINTENANCE	60:A4:4C:26:44:38	BEATLES	AP	1	-95	WPA2-PSK	11g/n
RACEROUTE	00:22:75:E7:8D:37	SPENCE51	AP	1	-95	WPA2-PSK	11g/n
PEED TEST	20:AA:4B:07:8D:34	DiversifiedChainsaws	AP	1	-40	WPA/WPA2-PSK	11g/n
LE MANAGEMENT	28:C6:8E:81:B2:40	Verizon-MBR1515-B240	AP	1	-95	WPA2-PSK	11g/n
ESTART	D8:50:E6:92:A4:F8	BARKER	AP	6	-91	WPA2-PSK	11g/n
DGOUT	78:96:84:19:5F:60	Rodriguezfamily	AP	6	-95	WPA/WPA2-PSK	11g/n
DVANCED	8C:C8:CD:6E:45:9B	SEC_LinkShare_s0da8e	AP	6	-95	WPA2-PSK	11g/n
IRELESS SETTINGS	20:4E:7F:85:C2:D5	NETGEAR50	AP	7	-95	WPA2-PSK	11g/n
AG FILTER	64:55:B1:B2:7D:E0	Evenground	AP	11	-76	WPA/WPA2-PSK	11g/n
AST HANDOVER	BC:EE:7B:C2:EB:18	AcrossTheSea	AP	1	-95	WPA2-PSK	11g/n
AST ROAMING	AC:B3:13:9C:E5:70	RayHPools	AP	11	-95	WPA2-PSK	11g/n
SITE SURVEY	CC:65:AD:21:38:10	ATTOBSKOR7	AP	11	-88	WPA/WPA2-PSK	11g/n
RAFFIC SHAPING							

Path Advanced, Site Survey

4.6.1. Select Interface

The Site Survey Select Interface section can be used to select the frequency (2.4GHz/5GHz) to be scanned.

Figure 48. Site Survey Settings - Select Interface

	Conce Manada Mada and a				
		Const			
WIRELESS INTERFACE	Select Interface	o 2.4GHz o 5GHz			
STATUS					
	SITE SURVEY				
GIGKIIIS			CLOUD SERVER: Connected	System Time: 2014-08-13 04:38:58	System Uptime: 01:43

Path Advanced, Site Survey, Select Interface

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Select Interface Select 2.4GHz to scan for 2.4GHz networks. Select 5GHz to scan for 5GHz networks.
- Scan Nearby Networks Press the Scan button to start the scan. A list of 2.4GHz or 5GHz devices will appear as shown.

•

Configuration Instructions

To configure Site Survey:

- 1. Click Advanced, Site Survey.
- 2. Specify the Site Survey Settings.
- 3. Click Scan.

4.6.2. Result

The Site Survey Result shows the presence of other 2.4GHz/5GHz wireless networks, their modes, channels, security settings, signal strengths, encryptions, and type based upon the frequency selected for scanning.

Figure 49. Site Survey Settings - shown with scan results

LAN	Result						
WIRELESS	BSSID	SSID	Mode	Channel	Signal	Encryption	Туре
SECURITY	00:1D:6A:CB:33:15	SuperHonda	AP	6	-95	WEP	11b/g
MAINTENANCE	60:A4:4C:26:44:38	BEATLES	AP	1	-95	WPA2-PSK	11g/n
TRACEROUTE	00:22:75:E7:8D:37	SPENCE51	AP	1	-95	WPA2-PSK	11g/n
SPEED TEST	20:AA:48:07:8D:34	DiversifiedChainsaws	AP	1	-40	WPA/WPA2-PSK	11g/n
FILE MANAGEMENT	28:C8:8E:81:B2:40	Verizon-MBR1515-B240	AP	1	-95	WPA2-PSK	11g/n
RESTART	D8:50:E8:92:A4:F8	BARKER	AP	6	-91	WPA2-PSK	11g/n
LOGOUT	78:96:84:19:5F:60	Rodriguezfamily	AP	0	-95	WPA/WPA2-PSK	11g/n
ADVANCED	8C:C8:CD:6E:45:9B	SEC_LinkShare_a0da8e	AP	6	-95	WPA2-PSK	11g/n
WIRELESS SETTINGS	20:4E:7F:85:C2:D5	NETGEAR50	AP	7	-95	WPA2-PSK	11g/n
WPS	64:55:B1:B2:7D:E0	Evenground	AP	11	-76	WPA/WPA2-PSK	11g/n
FAST HANDOVER	BC:EE:7B:C2:EB:18	AcrossTheSea	AP	1	-95	WPA2-PSK	11g/n
FAST ROAMING	AC:B3:13:9C:E5:70	RayHPools	AP	11	-95	WPA2-PSK	11g/n
. SITE SURVEY	CC:65:AD:21:38:10	ATT6BSK6R7	AP	11	-88	WPA/WPA2-PSK	11g/n

Path Advanced, Site Survey

Parameters

- **BSSID** Basic Service Set Identification. Indicates the MAC Address of a detected 2.4GHz or 5GHz network device.
- SSID Service Set Identifier. Indicates the network name of a wireless network that a specific device is connected to.
- Mode Indicates how a device is being used i.e. AP, bridge, etc.
- Channel Indicates the channel a specific device is transmitting on.
- Signal RSSI or Received Signal Strength Indicator. Indicates the signal strength of a detected network as received by the AN100/300.
- **Encryption** Indicates the security mode encryption of a detected device.
- **Type** Indicates the wireless mode of the detected device.

4.7. Wireless Traffic Shaping Settings

Traffic shaping is used to regulate packet flow to control wireless network saturation and improve (reduce) latency.

Figure 50. Wireless Traffic Shaping Settings

	0	CLOOD SERVER: Connected (SS	AFFIC SHAPING SETTING	WIRELESS TRA
					ic Shaping	Wireless Traffi
	imit(1-999)Mbps	Upload Limi	Download Limit(1-999)Mbps	Interface	SSID	Enable
		100	100	2.4GHz	araknis_initial	Yes
		100	100	6GHz	araknis_initial	Yes
ľ		100	100	2.4GHz 8GHz	araknis_initial araknis_initial	Yes Yes

Path Advanced, Traffic Shaping

Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- Enable Select to enable Traffic Shaping on the 2.4GHz and/or 5GHz band.
- **SSID** Indicates the network to which Traffic Shaping will be applied.
- Interface Indicates 2.4GHz or 5GHz band.
- **Download Limit** Enter a value to regulate download speed. RANGE: 1-999Mbps. DEFAULT: 100Mbps.
- Upload Limit Enter a value to regulate upload speed. RANGE: 1-999Mbps. DEFAULT: 100Mbps.

Configuration Instructions

To configure Wireless Traffic Shaping:

- 1. Click Advanced, Traffic Shaping.
- 2. Specify the Wireless Traffic Shaping Settings.
- 3. Click Save.

4.8. SNMP Settings

Simple Network Management Protocol (SNMP) is an IP network protocol that can be used to monitor network devices, audit network usage, detect network faults or inappropriate access, and in some cases configure remote devices.

Figure 51. SNMP Settings

STATUS SYSTEM	SWIID-2 Sattings				
WIRELESS INTERFACE	Status	Enable Dis	able		
SETTINGS SYSTEM	Contact				
LAN	Location				
SECURITY	Port	161			
MAINTENANCE	Community Name (Read Only)	public			
TRACEROUTE	Community Name (Read Write)	private			
SPEED TEST	Trap Destination				
FILE MANAGEMENT RESTART	Port	162			
LOGOUT	IP Address				
WIRELESS SETTINGS	Community Name	public			
MAC FILTER	SNMPv3 Settings				
FAST HANDOVER	Status	Enable O Dis	able		
FAST ROAMING	Username	admin	(1-31 Characters)		
TRAFFIC SHAPING	Authorized Protocol	MD5 🖵			
SNMP	Authorized Key	12345678	(8-32 Characters)		
VLANS	Privacy Protocol	DES 🖵			
	Privacy Key	12345678	(8-32 Characters)		
Apply Changes: 0	Engine ID				

Path Advanced, SNMP

4.8.1. SNMPv2 Settings

This section allows configuration of SNMPv2 Settings.

Figure 52. SNMP Settings

araknis		CLOUD SEBUED: Connected O System Time: 2014-08-13 22-07-16 O System Hotime: 02-14-0				
NETWORKS	SNMP SETTINGS	Construction optimistic Construction Construction of Construction optimistic				
STATUS SYSTEM	SNMPv2 Settings					
SETTINGS	Status o Enable Disable					
SYSTEM	Contact					
LAN	Location					
SECURITY	Port	161				
	Community Name (Read Only)	public				
TRACEROUTE	Community Name (Read Write)	private				
SPEED TEST	Trap Destination					
FILE MANAGEMENT RESTART	Port	162				
LOGOUT	IP Address					
O ADVANCED WIRELESS SETTINGS	Community Name	public				

Path Advanced, SNMP, SNMPv2

Parameters

- Status Select Enable to enable SNMPv2. Select Disable to disable SNMPv2. DEFAULT: Enable
- **Contact** Enter the name of the person managing the SNMPv2 server. DEFAULT: Blank
- Location Enter the physical location of the SNMPv2 server. DEFAULT: Blank
- Port Indicates the port number for SNMPv2 'listening'. This is a dedicated UDP port and would typically not be changed. DEFAULT: 161
- Community Name (Read Only) Indicates the password for SNMPv2 read only access. DEFAULT: Public. 'Public' is a typical default of SNMP v2 devices for Read Only.
- Community Name (Read Write) Indicates the password for SNMPv2 read/write access. DEFAULT: Private.
- **Trap Destination** An SNMPv2 Trap is a notification of a network event such as a fault or security event. The Trap Destination is typically the IP Address of the SNMP server where trap messages will be sent.

Port – Indicates the SNMPv2 port number for 'receiving traps'. This is a dedicated TCP/UDP port and would typically not be changed. DEFAULT: 162

IP Address – IP Address of the SNMPv2 server that will receive SNMP traps.

Community Name - Indicates the password for the SNMPv2 trap community.

Configuration Instructions

To configure SNMPv2 Settings:

- 1. Click Advanced, SNMP.
- 2. Specify the SNMPv2 Settings.
- 3. Click Save.

4.8.2. SNMPv3 Settings

This section allows configuration of SNMPv3 Settings.

Figure 53. SNMP Settings

Status	Enable O Dis	abla		
		Enable O Disable		
Username	admin	(1-31 Characters)		
Authorized Protocol	MD5 🖵			
Authorized Key	12345678	(8-32 Characters)		
Privacy Protocol	DES 🖉			
Privacy Key	12345678	(8-32 Characters)		
Engine ID				
	Username Authorized Protocol Authorized Key Privacy Protocol Privacy Key Engine ID	Username admin Authorized Protocol MD5 Authorized Key 12345678 Privacy Protocol DES Privacy Key 12345678 Engine ID	Username admin (1-31 Characters) Authorized Protocol MD5 Authorized Key 12345678 (8-32 Characters) Privacy Protocol DES Privacy Key 12345678 (8-32 Characters) Engine ID	

Path Advanced, SNMP, SNMPv3

Parameters

- Status Select Enable to enable SNMPv3. Select Disable to disable SNMPv3. DEFAULT: Enable
- User Name Enter a User Name for SNMPv3 implementation. RANGE: 1-31 Characters. DEFAULT: admin.
- Authorized Protocol Select the desired protocol from the drop-down. OPTIONS: MD5, SHA, None. DEFAULT: MD5
- Authorized Key Enter an authentication key. This key acts as an electronic signature to authenticate an SNMPv3 message. RANGE: 8-32 Characters. DEFAULT: 12345678
- Privacy Protocol Select the desired protocol from the drop-down. OPTIONS: DES, None. DEFAULT: DES
- **Privacy Key** Enter a Privacy Key. This acts as an encryption for the data within a SNMPv3 message. RANGE: 1-8 Characters. DEFAULT: 12345678
- Engine ID Enter an Engine ID. The Engine ID identifies where a SNMPv3 message is coming from. DEFAULT: Blank

Configuration Instructions

To configure SNMPv3 Settings:

- 1. Click Advanced, SNMP.
- 2. Specify the SNMPv3 Settings.
- 3. Click Save.

4.9. Spanning Tree Settings

Spanning Tree Protocol (STP) is an IP network protocol that prevents undesirable loops caused by multiple active paths between network devices when multiple switches or bridges are used on a network.

Figure 54. Spanning Tree Settings

āraknis	CDANNING THE SETTINGS			S System Time: 2014-07-29-21-33-30	🖸 System Apame. (0.2328)
STATUS SYTEM WIRLESS WITERACE SETTINOS SYSTM A MRELESS SECURTY MATTENANCE DUIC TAACEMOTE SPECT TEXT	Spanning Tree Protocol (STP) Settings				
	Status	Enable < 1	Disacte		
	Hello Time	2	seconds (1-10)		
	Max Age	20	seconds (6-40)		
	Forward Delay	4	seconds (4-30)		
	Prionty	32768	(0-65535)		
	-				Save Cancel



Parameters

- Status Select Enable to enable STP. Select Disable to disable STP. DEFAULT: Disable
- Hello Time Enter a value for Hello Time. This setting will determine how often in seconds the AN100/300 will send the Hello Message to network switches and bridges to asses network topology. RANGE: 1-10 seconds. DEFAULT: 2 seconds
- Max Age Enter a duration for Max Age. This setting will determine how long the AN100/300 will wait for a Hello Message from another switch or bridge. If no message is received within the set duration, the device will be considered off-line and a new STP route will be configured. RANGE: 6-40 seconds. DEFAULT: 20 seconds.
- Forward Delay Enter a value for Forward Delay. This setting will determine the length of time the AN100/300 will take to 'listen' to the network and either retain current topology or generate a new topology based upon network switch and bridge status. RANGE: 4-30 seconds. DEFAULT: 4 seconds.
- **Priority** Enter a value for Priority. This setting will help determine which bridge is the root bridge, or essentially which switch controls the main road that network traffic is going to routed around to avoid loops. In this game, the lowest score wins. The score is a total of MAC Address, the Priority number and a bunch of tie-breaker values that determine the so called root bridge. Setting a lower Priority will help generate a lower score for a given switch. RANGE: 0-65535. DEFAULT: 32768.

Configuration Instructions

To configure Spanning Tree Settings:

- 1. Click Advanced, Spanning Tree.
- 2. Specify the Spanning Tree Settings.
- 3. Click Save.

4.10. VLAN Settings

A Virtual Local Area Network (VLAN) is a group of IP Network devices whose IP Addresses have been set to run on a particular IP Network. These devices will typically only 'see' the other devices on their network and most likely the Internet. A VLAN ID or 'tag' can be assigned to data packets that pass through the AN100/300 to maintain the integrity of the VLAN by identifying which data belongs to which VLAN.

Figure 55. VLAN Settings

araknis	VI AN SETTINGS		CLOUD SERVER: Connecte	d 🕓 System Tin	ne: 2014-08-14 03:45:57	System Uptime: 07:52:49
STATUS SYSTEM WIRELESS INTERFACE	VLAN Settings					
	VLAN Isolation	SSID	Interface	VLAN ID		
SYSTEM	Yes	araknis_initial	2.4GHz			
LAN	Yes	araknis_initial	5GHz			
SECURITY						Save Cancel
MAINTENANCE						



Parameters

NOTE: The WAP100 will indicate settings and information for the 2.4Ghz Channel. The WAP300 will indicate settings and information for the 2.4GHz and 5GHz Channels.

- VLAN Isolation Select Yes to assign a VLAN ID. DEFAULT: Not selected.
- SSID Indicates the network name of the VLAN being tagged. Any Wireless VLANs that need to be tagged should be added in the Wireless Settings page under Wireless Networks. If a Wireless VLAN does not appear in the VLAN Settings List, check the Wireless Settings page under Wireless Networks to see if it is Enabled. If it is not, Enable, Save, then Apply.
- Interface Indicates the 2.4GHz or 5GHz Interface for a given network.
- VLAN ID Enter a value for the VLAN ID. RANGE: 1-4094. DEFAULT: Blank

Configuration Instructions

To configure VLAN Settings:

- 1. Click Advanced, VLANS.
- 2. Specify the VLAN Settings.
- 3. Click Save.