



802.11 Wireless Security Vulnerability Assessment Report

from 2009-08-31 14:06:32 to 2009-09-01 14:06:32

System Name: AirDefense
Domain: System
Generated: 2009-09-01 14:07:44
Version: 7.3.3-12
Time Zone: EDT - Eastern Daylight Time

Rogue Activity Threat

Rogue Access Points:	2
Unauthorized APs:	169
Rogue Stations:	13
Unauthorized Stations:	127

Misconfiguration Threat

APs Broadcasting SSID:	3
APs using Weak Authentication:	8
APs using Weak Encryption:	7
APs using Incorrect Data Rates:	0
APs Changing ESSIDs:	0
APs Using Unauthorized Channels:	0
AP Using Default Settings:	0

Wireless Station Threat

Ad-Hoc Stations:	2
Accidental Associations:	0
Roaming Violations:	0
Probing Stations	251

Intrusion Threat

Identity Theft Attacks:	0
Reconnaissance Activity	2
Authentication Failures	0
Active Stations on Watch List	0
Denial of Service Attacks	0
Soft APs:	1
After Hours Activity:	0

Wired Leakage



Multicast Network Protocols	0
Unknown Wired Stations	0

Rogue Activity

These are devices that the AirDefense system has definitively determined to be connected to your wired network. These are the most dangerous of all rogue devices because they are exposing your network to the outside world and potentially are not following your security standards to guard against intrusions.

Rogue Access Points (Latest 50 Seen)







































Rogue Devices Connected to the Network	2
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Device	AP MAC	SSID	Signal Strength	Start Time	Location	Group
 Symbol:d0:1f:98 [a]	00:15:70:d0:1f:98	AM-Wireless	-76	8/31/09 3:32 AM	Atlanta, GA Office	1st Floor
 Symbol:d0:25:a8 [b,g]	00:15:70:d0:25:a8	AM-Wireless	-71	8/5/09 7:13 PM	Atlanta, GA Office	1st Floor

Rogue Stations (Latest 50 Seen)

Rogue Stations:

13

Device	SSID	AP	Signal Strength	Start Time	Sensor
 Intel:07:00:58 [a,b,g]	M-Wireless	 Symbol:50:1f:40 [a,g]	-63	8/31/09 6:58 PM	 AP300-SensorLab [a,b,g]
 Nathan Station [a,b,g]	M-Wireless		-65	8/31/09 12:04 PM	 AP300-SensorLab [a,b,g]
 Asustek:de:d2:45 [a,b,g]	AM-Wireless	 Symbol:d0:25:a8 [b,g]	-60	8/31/09 10:51 AM	 AP300-SensorLab [a,b,g]
 Hon:c1:cc:c8 [a,b,g]	M-Wireless	 Symbol:4f:e4:80 [a,b,g]	-59	8/31/09 10:36 AM	 AP300-SensorLab [a,b,g]
 Intel:0f:63:c0 [a,b,g]	M-Wireless	 Symbol:50:1f:40 [a,g]	-61	8/31/09 10:19 AM	 AP300-SensorLab [a,b,g]
 Intel:07:88:2c [a,b,g]	M-Wireless	 Symbol:4f:de:64 [a,g]	-64	8/31/09 10:08 AM	 AP300-SensorLab [a,b,g]
 Intel:07:00:6c [a,b,g]	M-Wireless	 Symbol:50:1f:40 [a,g]	-69	8/31/09 10:01 AM	 AP300-SensorLab [a,b,g]
 Intel:07:c0:40 [a,b,g]	M-Wireless	 Symbol:4f:de:64 [a,g]	-53	8/31/09 9:29 AM	 AP300-SensorLab [a,b,g]
 Gemtek:d8:0f:ff [a,b,g]	M-Wireless	 Symbol:50:1f:40 [a,g]	-82	8/31/09 9:08 AM	 AP300-SensorLab [a,b,g]
 Hon:4c:4e:1b [a,b,g]	M-Wireless	 Symbol:4f:e4:80 [a,b,g]	-58	8/31/09 8:08 AM	 AP300-SensorLab [a,b,g]
 Hon:b3:98:09 [a,b,g]	M-Wireless	 Symbol:50:1e:54 [a,b,g]	-67	8/26/09 9:27 AM	 AP300-SensorLab [a,b,g]
 Intel:07:ae:1e [a,b,g]	M-Wireless	 Symbol:50:1f:40 [a,g]	-50	8/24/09 10:19 AM	 AP300-SensorLab [a,b,g]
 Nintendo:f1:f2:64 [b,g]	ralphsnart	 Belkin:c2:ff:c3 [b,g]	-47	8/11/09 7:21 PM	 Raggio_M520 [a,b,g]

Wireless Station Threat

This section details the specific threats associated with Stations that have been detected in your wireless LAN. Wireless stations are a key component of the WLAN and can create numerous vulnerabilities by associating to the incorrect Access Points either via Accidental, Malicious, unauthorized Roaming or Ad-Hoc connections. Stations need to be viewed as potential entry points into your network and thus need to be analyzed appropriately to ensure there are not vulnerabilities.

Ad-Hoc Stations (Latest 50 Seen)

These are stations that the AirDefense system has determined to be either looking to form an Ad-Hoc network or are actively participating in an Ad-Hoc network. Ad-Hoc networks pose a significant threat to the security of your network. These inherently insecure connections allow malicious users to be able to sniff or worse join the network and potentially breach the security of your network.

Ad-Hoc Stations:

0

Device	Device MAC	SSID	Channel	Signal Strength	Location	Group
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Accidental Association (Latest 50 Seen)

These are authorized stations that the AirDefense system has determined to have connected to Access Points which are not authorized in your system. An Accidental association can either be non-malicious - where a user connects to a neighboring Access Point unintentionally, or it can be malicious - where a hacker lures your authorized user to connect to their Access Point in order to compromise the security of your network. Knowing about these unauthorized connections in your WLAN and taking protective action such as Terminating the connection over the air can help prevent security breach in your network.

Accidental Associations:

0

Device	Device MAC	SSID	Channel	Signal Strength	Location	Group
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Stations with Roaming Violations (Latest 50 Seen)

These are authorized stations that the AirDefense system has determined to have connected to authorized Access Points but are not allowed by policy to roam to those Access Points. This can happen if the Wireless Infrastructure uses the same credential information across the WLAN but the users are supposed to use wireless in their own departments, buildings etc. This is not a major threat, but points to potential internal activity that is out of the room.

Stations with Roaming Violations:

0


















Device	SSID	Channel	Signal Strength	Location	Group
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Probing Stations (Latest 50 Seen)




These are stations that the AirDefense system has determined to be active and Probing to connect non standard wireless Networks. As part of the 802.11 protocol wireless stations which are active and unconnected always send out Probe requests for their preferred networks hoping to establish connectivity to the WLAN. These probing stations can be phished by hackers by masquerading as the legitimate AP with the appropriate SSID. This situation can be huge vulnerability if the station is connected on the wired side and can be potentially bridging the wireless network to the internal wired network.

Stations Probing

251

Station	Station MAC	ESSID	Last Seen	Average Signal Strength	Location	Group
 Intel:8e:9b:90 [a,b,g]	00:16:ea:8e:9b:90	WXYZ	9/1/09 2:05 PM	-73	Atlanta, GA Office	1st Floor
 Symbol:6a:00:dd [b]	00:a0:f8:6a:00:dd	KO	9/1/09 2:05 PM	-85	Atlanta, GA Office	1st Floor
 Juniper:a0:3c:ea [a,b,g]	00:12:1e:a0:3c:ea		9/1/09 2:05 PM	0	Atlanta, GA Office	1st Floor
 Intel:07:c0:40 [a,b,g]	00:21:6a:07:c0:40	Symbol5100	9/1/09 2:05 PM	-53	Atlanta, GA Office	1st Floor
 Intel:07:ae:34 [a,b,g]	00:21:6a:07:ae:34	MZ7131_3R_CB1	9/1/09 2:05 PM	-41	Atlanta, GA Office	1st Floor
 Apple:2a:49:3a [a,b,g]	00:25:4b:2a:49:3a	Conference 1125	9/1/09 2:05 PM	-77	Atlanta, GA Office	1st Floor
 Intel:07:65:f4 [a,b,g]	00:21:6a:07:65:f4	SUNNY	9/1/09 2:05 PM	-65	Atlanta, GA Office	1st Floor
 Gemtek:ee:4f:8b [b]	00:21:00:ee:4f:8b		9/1/09 2:05 PM	-91	Auburn, GA	Auburn
 Smc:3e:14:a0 [a,b]	00:13:f7:3e:14:a0		9/1/09 2:05 PM	-78	Atlanta, GA Office	1st Floor
 Intel:66:1e:37 [a,b,g]	00:1d:e0:66:1e:37	A-MSFTWLAN	9/1/09 2:05 PM	-54	Atlanta, GA Office	1st Floor
 Intel:03:fb:2d [a,b,g]	00:1f:3b:03:fb:2d	A-MSFTWLAN	9/1/09 2:05 PM	-57	Atlanta, GA Office	1st Floor
 Intel:07:00:6c [a,b,g]	00:21:6a:07:00:6c	M-Wireless	9/1/09 2:05 PM	-69	Atlanta, GA Office	1st Floor
 Intel:07:ae:1e [a,b,g]	00:21:6a:07:ae:1e	M-Wireless	9/1/09 2:05 PM	-50	Atlanta, GA Office	1st Floor
 Intel:05:bd:30 [a,b,g]	00:21:6a:05:bd:30	SukiPrasad	9/1/09 2:04 PM	-70	Atlanta, GA Office	1st Floor
 Senao:43:f8:52 [a,b,g]	00:02:6f:43:f8:52		9/1/09 2:04 PM	-58	Atlanta, GA Office	1st Floor
 Cisco-links:ff:c8:e8 [a,b,g]	00:1e:e5:ff:c8:e8	FK_1200_b	9/1/09 2:04 PM	-53	Atlanta, GA Office	1st Floor
 Intel:11:26:a4 [a,b,g]	00:1b:77:11:26:a4	A-MSFTWLAN	9/1/09 2:04 PM	-57	Atlanta, GA Office	1st Floor

Station	Station MAC	ESSID	Last Seen	Average Signal Strength	Location	Group
 Intel:b8:45:00 [a,b]	00:13:02:b8:45:00	A-MSFTWLAN	9/1/09 2:04 PM	-73	Atlanta, GA Office	1st Floor
 Intel:8e:fe:86 [a,b,g]	00:16:ea:8e:fe:86	M-Wireless	9/1/09 2:04 PM	-68	Atlanta, GA Office	1st Floor
 Intel:3a:a0:78 [a,b,g]	00:21:6a:3a:a0:78	M-Wireless	9/1/09 2:04 PM	-82	Atlanta, GA Office	1st Floor
 Nathan Station [a,b,g]	00:19:d2:49:46:c8	M-Wireless	9/1/09 2:04 PM	-66	Atlanta, GA Office	1st Floor
 Intel:af:fa:6d [a,b]	00:1f:3b:af:fa:6d		9/1/09 2:04 PM	0	Atlanta, GA Office	1st Floor
 Intel:48:a7:58 [a,b]	00:21:6a:48:a7:58	A-MSFTWLAN	9/1/09 2:04 PM	-79	Atlanta, GA Office	1st Floor
 Intel:5a:ac:39 [a,b]	00:1f:3b:5a:ac:39		9/1/09 2:04 PM	0	Atlanta, GA Office	1st Floor
 Intel:c4:51:13 [a,b,g]	00:d0:b7:c4:51:13	M-Wireless	9/1/09 2:04 PM	-57	Atlanta, GA Office	1st Floor
 Intel:8e:66:86 [a,b,g]	00:16:ea:8e:66:86	M-Wireless	9/1/09 2:03 PM	-73	Atlanta, GA Office	1st Floor
 Symbol:c8:16:d0 [b]	00:15:70:c8:16:d0	FK_MESH	9/1/09 2:03 PM	-78	Atlanta, GA Office	1st Floor
 Intel:bb:78:3b [a,b,g]	00:19:d2:bb:78:3b	M-Wireless	9/1/09 2:03 PM	-72	Atlanta, GA Office	1st Floor
 Intel:85:4d:16 [a,b,g]	00:19:d2:85:4d:16	ARCHPRIV	9/1/09 2:03 PM	-81	Atlanta, GA Office	1st Floor
 Intel:8d:76:ec [a,b,g]	00:16:ea:8d:76:ec		9/1/09 2:03 PM	0	Atlanta, GA Office	1st Floor
 Intel:55:86:2f [a,b]	00:1d:e0:55:86:2f		9/1/09 2:02 PM	-77	Atlanta, GA Office	1st Floor
 Intel:af:e4:fb [a,b,g]	00:1f:3b:af:e4:fb	A-MSFTWLAN	9/1/09 2:02 PM	-52	Atlanta, GA Office	1st Floor
 Symbol:e0:db:c2 [a,b]	00:15:70:e0:db:c2	RADNet	9/1/09 2:01 PM	-53	Atlanta, GA Office	1st Floor
 Wistron:d9:30:24 [a,b]	00:0b:6b:d9:30:24		9/1/09 2:00 PM	-83	Atlanta, GA Office	1st Floor
 Intel:17:97:be [a,b]	00:21:6a:17:97:be		9/1/09 2:00 PM	-70	Atlanta, GA Office	1st Floor
 Intel:59:e6:f5 [a,b]	00:1d:e0:59:e6:f5	A-MSFTWLAN	9/1/09 2:00 PM	-82	Atlanta, GA Office	1st Floor
 Gemtek:13:b1:1e [a]	00:21:00:13:b1:1e		9/1/09 2:00 PM	-42	Atlanta, GA Office	1st Floor
 Intel:1c:e5:34 [a,b]	00:1b:77:1c:e5:34		9/1/09 2:00 PM	0	Atlanta, GA Office	1st Floor
 Intel:af:fe:bf [a,b]	00:1f:3b:af:fe:bf		9/1/09 2:00 PM	0	Atlanta, GA Office	1st Floor
 Intel:24:f5:2e [a,b]	00:13:02:24:f5:2e	ARCHPRIV	9/1/09 2:00 PM	-80	Atlanta, GA Office	1st Floor
 Askey:16:48:af [a,b,g]	00:11:f5:16:48:af	QAFREE	9/1/09 1:59 PM	-84	Atlanta, GA Office	1st Floor
 Intel:53:c5:0d [a,b,g]	00:21:5c:53:c5:0d	A-MSFTWLAN	9/1/09 1:59 PM	-78	Atlanta, GA Office	1st Floor
 Intel:29:43:de [a,b]	00:21:6a:29:43:de	A-MSFTWLAN	9/1/09 1:59 PM	-79	Atlanta, GA Office	1st Floor
 Intel:07:00:58 [a,b,g]	00:21:6a:07:00:58	M-Wireless	9/1/09 1:58 PM	-63	Atlanta, GA Office	1st Floor
 Intel:50:e7:e7 [a,b,g]	00:21:5c:50:e7:e7	A-MSFTWLAN	9/1/09 1:58 PM	-54	Atlanta, GA Office	1st Floor
 Gemtek:d8:0f:ff [a,b,g]	00:14:a5:d8:0f:ff	M-Wireless	9/1/09 1:58 PM	-81	Atlanta, GA Office	1st Floor
 Cisco:67:20:e1 [a,b,g]	00:07:0e:67:20:e1	MSFTGUEST	9/1/09 1:56 PM	-80	Atlanta, GA Office	1st Floor

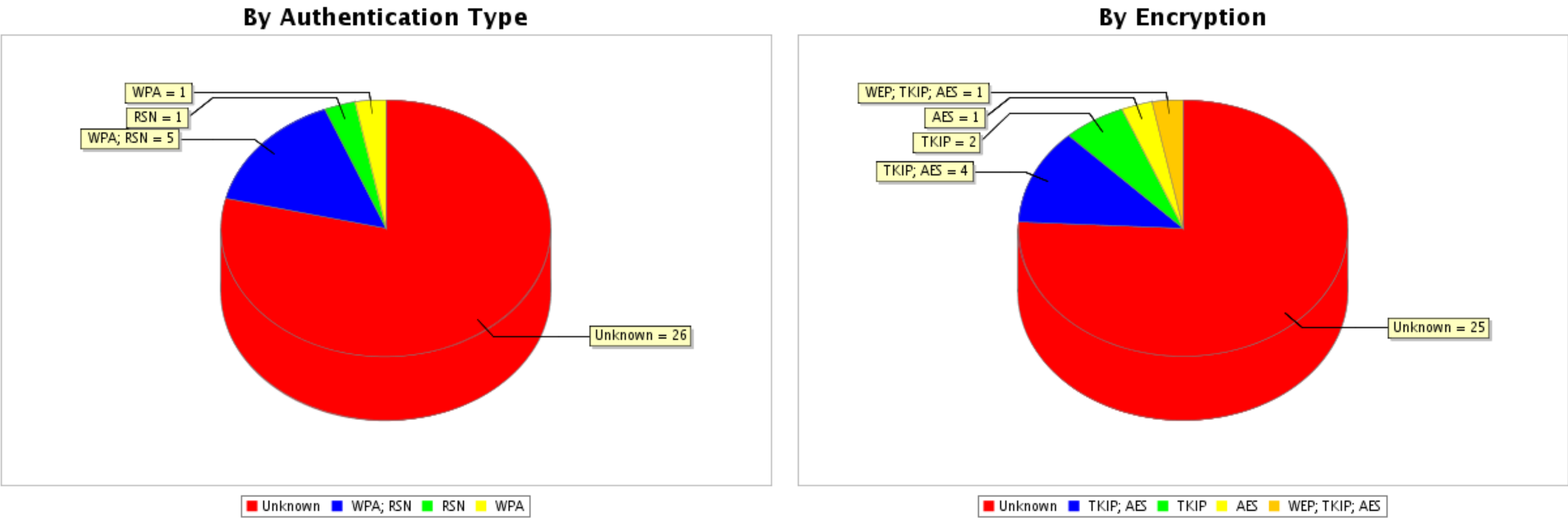
Station	Station MAC	ESSID	Last Seen	Average Signal Strength	Location	Group
 Intel:07:d4:24 [a,b,g]	00:21:6a:07:d4:24	M-Wireless	9/1/09 1:56 PM	-70	Atlanta, GA Office	1st Floor
 Intel:11:5a:be [a,b]	00:21:6a:11:5a:be		9/1/09 1:56 PM	-87	Atlanta, GA Office	1st Floor
 Intel:22:88:d3 [a,b]	00:21:5c:22:88:d3		9/1/09 1:56 PM	0	Atlanta, GA Office	1st Floor

Misconfiguration Threat

This section details the specific threats associated with the misconfiguration of devices in your wireless LAN. Policies and procedures must be in place to ensure that the Access Points are configured properly including mechanisms for the authentication and encryption. Configuration management is a key part in managing your infrastructure. Misconfigurations are common due to user error, forgotten temporary or debugging changes, flaws in firmware updates which may reset configurations or for some non-commercial grade Access points the reset button on the device can reset the configuration to factory defaults. Any such changes can create vulnerabilities in your WLAN.


















APs Broadcasting SSID:	<input type="text" value="3"/>	AP Changing ESSID	<input type="text" value="0"/>
APs with Weak Authentication:	<input type="text" value="8"/>	APs Using Unauthorized Channels	<input type="text" value="0"/>
APs with Weak Encryption:	<input type="text" value="7"/>	AP Utilizing Default Settings	<input type="text" value="0"/>
APs Using Unauthorized Data Rates	<input type="text" value="0"/>		

Access Points by Authentication & Encryption Types



Misconfiguration Violations (Latest 50 Seen)

Device	SubCategory	Type	Start Time	Signal Strength	Location	Group
 Symbol:50:1e:54 [a,b,g]	802.11 Encryption	80211 Encryption Modes Violated	9/1/09 1:13 PM	-76	Atlanta, GA Office	1st Floor

Device	SubCategory	Type	Start Time	Signal Strength	Location	Group
 Symbol:4f:e4:1c [a,b,g]	802.11 Encryption	80211 Encryption Modes Violated	9/1/09 12:48 PM	-85	Atlanta, GA Office	1st Floor
 Apple:1a:30:d4 [a,b,g]	Environment	Ad-Hoc Network Violation Unauthorized Device	8/31/09 3:08 PM	-63	Atlanta, GA Office	1st Floor
 Askey:05:6f:39 [a,b,g]	Environment	Ad-Hoc Network Violation Unauthorized Device	8/31/09 3:05 PM	-57	Atlanta, GA Office	1st Floor
 Micro-star:91:f8:36 [b]	Environment	Ad-Hoc Network Violation Unauthorized Device	8/31/09 10:05 AM	-80	Atlanta, GA Office	1st Floor
 Htc:1c:72:b0 [b]	Environment	Ad-Hoc Network Violation Unauthorized Device	8/31/09 10:03 AM	-83	Atlanta, GA Office	1st Floor
 Symbol:4f:de:64 [a,g]	802.11 Encryption	80211 Encryption Modes Violated	8/31/09 9:29 AM	-46	Atlanta, GA Office	1st Floor
 Symbol:50:1f:40 [a,g]	802.11 Encryption	80211 Encryption Modes Violated	8/31/09 9:08 AM	-72	Atlanta, GA Office	1st Floor
 Symbol:4f:e4:80 [a,b,g]	802.11 Encryption	80211 Encryption Modes Violated	8/31/09 8:08 AM	-50	Atlanta, GA Office	1st Floor
 Belkin:c2:ff:c3 [b,g]	Incorrect AP Configuration Observed	AP SSID Broadcast in Beacon	8/11/09 6:50 PM	-77	Auburn, GA	Auburn
 Belkin:c2:ff:c3 [b,g]	Advanced Key Generation	Advanced Key Generation Modes Violated	8/11/09 6:49 PM	-79	Auburn, GA	Auburn
 Belkin:c2:ff:c3 [b,g]	Authentication	Extended Authentication Modes Violated	8/11/09 6:49 PM	-79	Auburn, GA	Auburn
 Symbol:4f:e4:1c [a,b,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:05 PM	-85	Atlanta, GA Office	1st Floor
 Cisco:b9:00:20 [a,b,g]	Incorrect AP Configuration Observed	AP SSID Broadcast in Beacon	8/5/09 5:03 PM	-27	Atlanta, GA Office	1st Floor
 Symbol:50:1f:40 [a,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:02 PM	-72	Atlanta, GA Office	1st Floor
 Cisco:b9:00:20 [a,b,g]	802.11 Encryption	80211 Encryption Modes Violated	8/5/09 5:02 PM	-34	Atlanta, GA Office	1st Floor
 Nortel:76:7d:40 [a,b,g]	Incorrect AP Configuration Observed	AP SSID Broadcast in Beacon	8/5/09 5:02 PM	-37	Atlanta, GA Office	1st Floor
 Symbol:4f:de:64 [a,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:01 PM	-47	Atlanta, GA Office	1st Floor
 Symbol:50:1e:54 [a,b,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:01 PM	-76	Atlanta, GA Office	1st Floor
 Symbol:4f:e4:80 [a,b,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:01 PM	-49	Atlanta, GA Office	1st Floor
 Nortel:76:7d:40 [a,b,g]	802.11 Encryption	80211 Encryption Modes Violated	8/5/09 5:01 PM	-37	Atlanta, GA Office	1st Floor
 Nortel:76:7d:40 [a,b,g]	Authentication	Extended Authentication Modes Violated	8/5/09 5:01 PM	-37	Atlanta, GA Office	1st Floor
 Askey:05:6f:39 [a,b,g]	Environment	Ad-Hoc Network Violation Unauthorized Device	undefined time	-58	Atlanta, GA Office	1st Floor
 Apple:1a:30:d4 [a,b,g]	Environment	Ad-Hoc Network Violation Unauthorized Device	undefined time	-57	Atlanta, GA Office	1st Floor

Intrusion Threat

This section details the specific threats associated with intrusions in your Wireless LAN. These include reconnaissance activities to collect information about your Wireless network, active penetration attempts such as failed authentications, associations or EAP handshakes, various types of protocol frame floods such as Probe requests, Probe responses, authentication requests etc which can potentially utilize the channel bandwidth as well as overload the Access points causing them to reset or lock up, Denial of Service attacks via Deauthentication and Disassociation attacks, Identify theft of authorized devices to bypass MAC filtering mechanisms, Activity of Stations which have been marked on Watch List, After hours activities on channels which are supposed to be under lock-down and presence of Fake AP and Soft APs.

Active Stations on Watched List:

0

Denial of Service Attacks:

0

Soft APs:

1

After Hours Activity:

0

Identity Theft Attacks:

0




Reconnaissance Activity:

2

Authentication Failures:

0

Intrusion Violations (Latest 50 Seen)

Device	Device MAC	Type	Signal Strength	Start Time	Location	Group
 Nortel:76:7d:41 [a]	00:18:b0:76:7d:41	Unauthorized AP Using Authorized SSID	-34	8/5/09 5:05 PM	Atlanta, GA Office	1st Floor
 WKH764@motorola.com [a,b,g,n]	00:21:6a:07:6f:98	Null Probe Response	-55	undefined time	Atlanta, GA Office	1st Floor
 Intel:99:10:61 [a,b]	00:13:02:99:10:61	Null Probe Response	-73	undefined time	Atlanta, GA Office	1st Floor

Wired Leakage Threat Details

This section details the specific threats associated with leakage of wired side traffic into the airwaves. Leaked wired traffic can pose a significant risk to the security of your network. Since glue protocols (VRRP,HSRP,CDP,OSRF,IGRP)were not setup with security in mind, malicious users can indulge in Network DoS or routing/Spanning tree based attacks to mis-configure or melt-down your wired side network. AirDefense system can help identify the type of traffic leaking into the airwaves to give you a handle of your potential exposure to this vulnerability. If AirDefense is unable to investigate the specific leaked protocols, it can still warn you regarding leaked wired traffic from your Access Points. If an Access Point is not configured as a bridge, any potential wired-to-wired traffic is a concern that should be investigated.

Multicast HSRP

0

Multicast IGMP

0

Multicast IGRP Routers

0

Multicast OSFP All Routers

0

Multicast OSFP Designated Routers

0

Multicast RIP2 Routers

0

Unknown Wired Stations

0

Netbios Traffic

0

Multicast all systems on Network

0

Multicast DHCP Server/Relay Agent

0

Multicast VRRP

0

Wired Traffic Leakage Violations (Latest 50 Seen)

Device	Device MAC	Type	Signal Strength	Start Time	Location	Group