

Your Organization Analysis

7/25/2012

Created By: MOREnet

Company: Your Organization



Table Of Contents

Chapter 1	802.11 RF Summary
Chapter 2	Channel Summary
Chapter 3	Hierarchy By SSID List
Chapter 4	Alarm Statistics

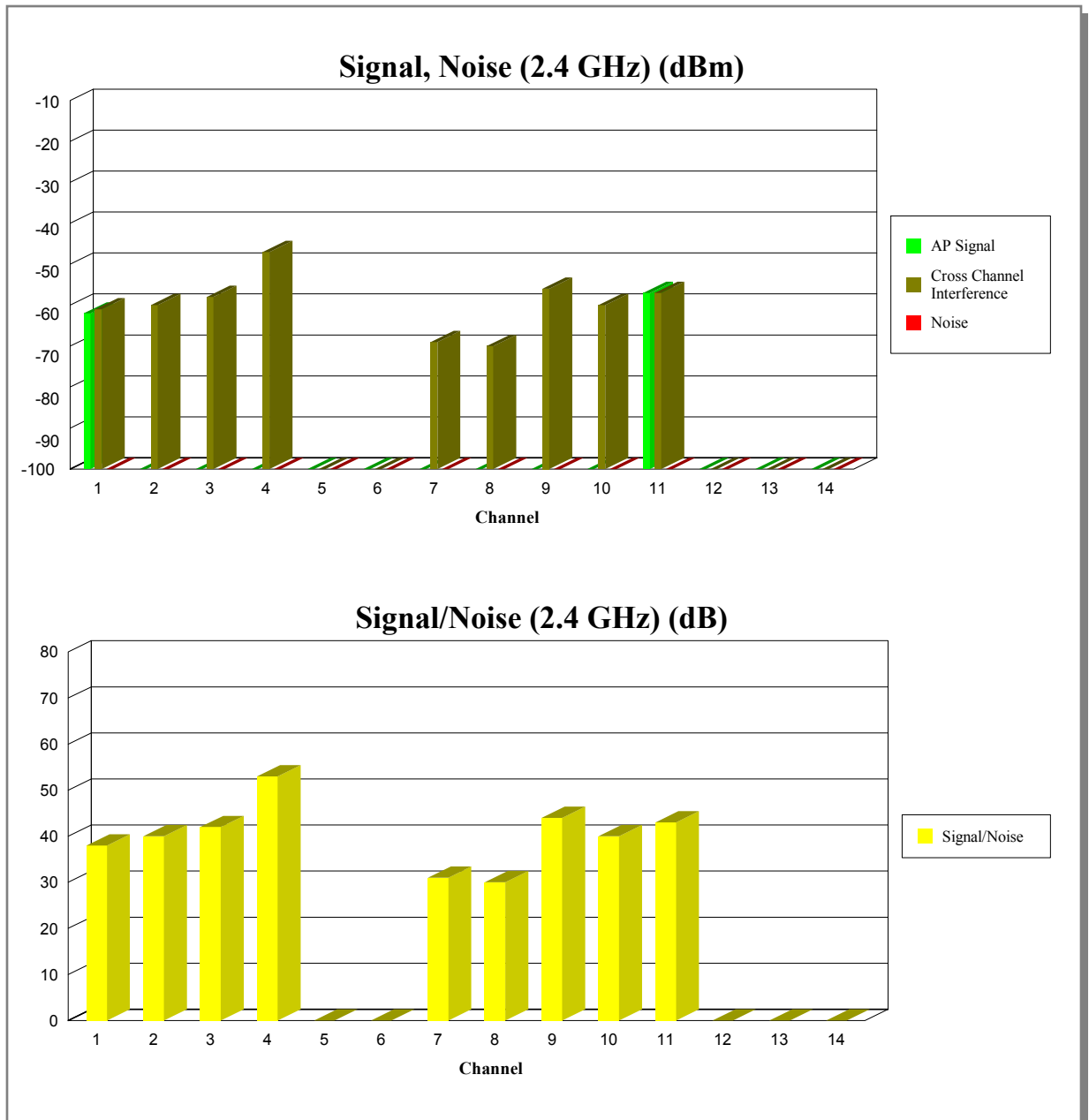


Chapter 1

802.11 RF Summary

Time Period: 1969/12/31 18:00:00

Description: This report contains data on the overall RF signal quality of the 802.11 network in terms of signal strength, noise level, and signal-to-noise ratio. It is very critical to note that there is sufficient coverage for all the devices and the RF environment has the minimum amount of noise possible. WLAN reliability and efficiency depend on the quality of the RF media. Be it 802.11b/g/n at 2.4GHz or 802.11a/n at the 5GHz RF spectrum, they are all susceptible to RF noise impact. A cordless phone, Bluetooth devices, microwave, wireless surveillance video camera, or baby monitor can all emit RF energy to disrupt WLAN service. Malicious attacks can manipulate the RF power at 2.4GHz or 5GHz spectrum with a high gain directional antenna to amplify the attack impact from a distance. Excessive noise causes WLAN devices in the target area to be out of wireless service.

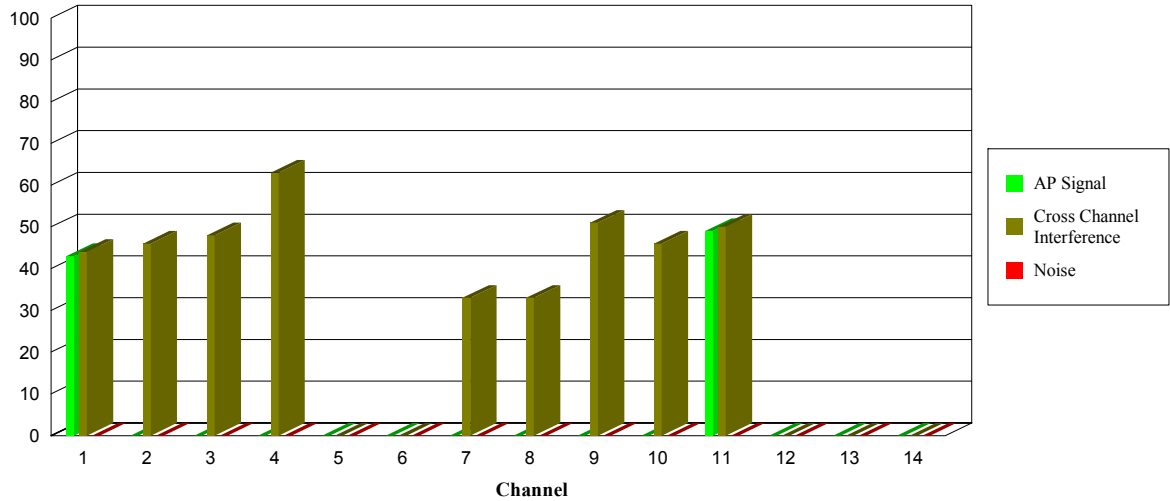


2.4 GHz (dBm)

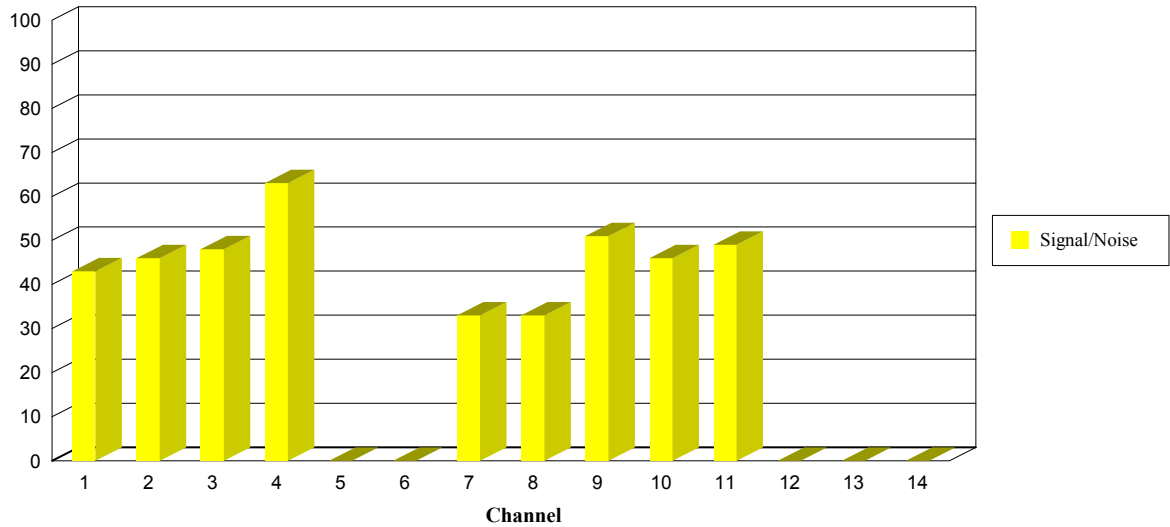
Channel	Tx Ch Width	AP Signal	Cross Channel Interference	Noise	Signal/Noise
1(2.4GHz)	20	-62	39.00	-100	38
2(2.4GHz)	20	-100	40.00	-100	40
3(2.4GHz)	20	-100	42.00	-100	42
4(2.4GHz)	20	-100	53.00	-100	53
5(2.4GHz)	20	-100	0.00	-100	0
6(2.4GHz)	20	-100	0.00	-100	0
7(2.4GHz)	20	-100	31.00	-100	31
8(2.4GHz)	20	-100	30.00	-100	30
9(2.4GHz)	20	-100	44.00	-100	44
10(2.4GHz)	20	-100	40.00	-100	40
11(2.4GHz)	20	-57	43.00	-100	43
12(2.4GHz)	20	-100	0.00	-100	0
13(2.4GHz)	20	-100	0.00	-100	0
14(2.4GHz)	20	-100	0.00	-100	0



Signal, Noise (2.4 GHz) (%)



Signal/Noise (2.4 GHz) (%)



2.4 GHz (%)

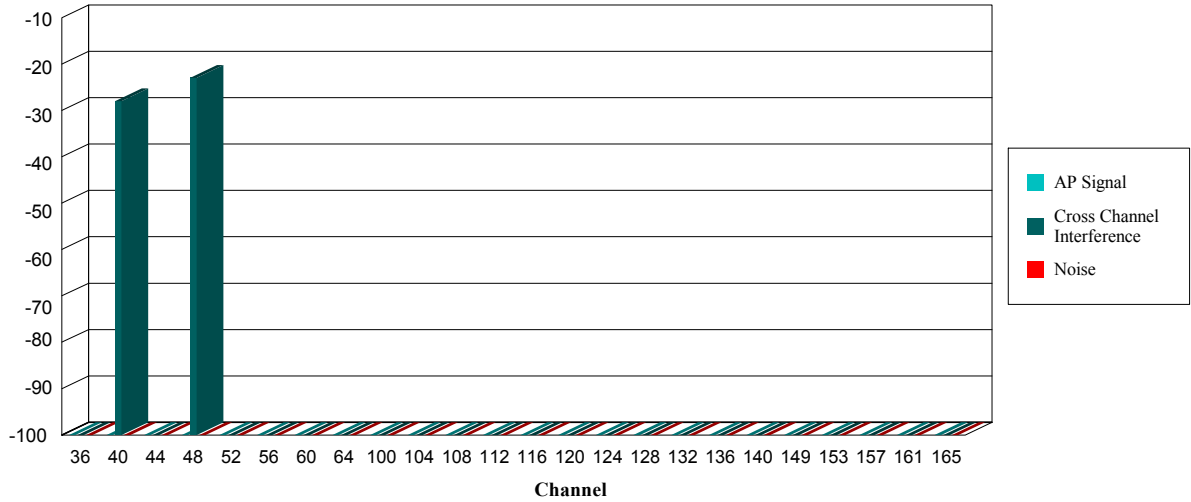
Channel	Tx Ch Width	AP Signal	Cross Channel Interference	Noise	Signal/Noise
1(2.4GHz)	20	43	44	0	43
2(2.4GHz)	20	0	46	0	46
3(2.4GHz)	20	0	48	0	48
4(2.4GHz)	20	0	63	0	63



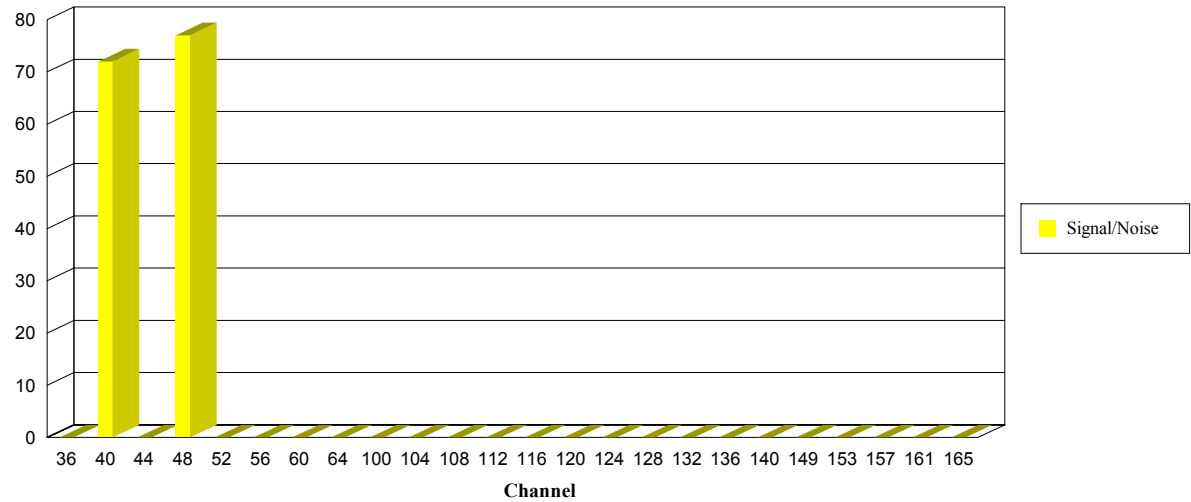
5(2.4GHz)	20	0	0	0	0
6(2.4GHz)	20	0	0	0	0
7(2.4GHz)	20	0	33	0	33
8(2.4GHz)	20	0	33	0	33
9(2.4GHz)	20	0	51	0	51
10(2.4GHz)	20	0	46	0	46
11(2.4GHz)	20	49	50	0	49
12(2.4GHz)	20	0	0	0	0
13(2.4GHz)	20	0	0	0	0
14(2.4GHz)	20	0	0	0	0



Signal, Noise (5 GHz) (dBm)



Signal/Noise (5 GHz) (dB)



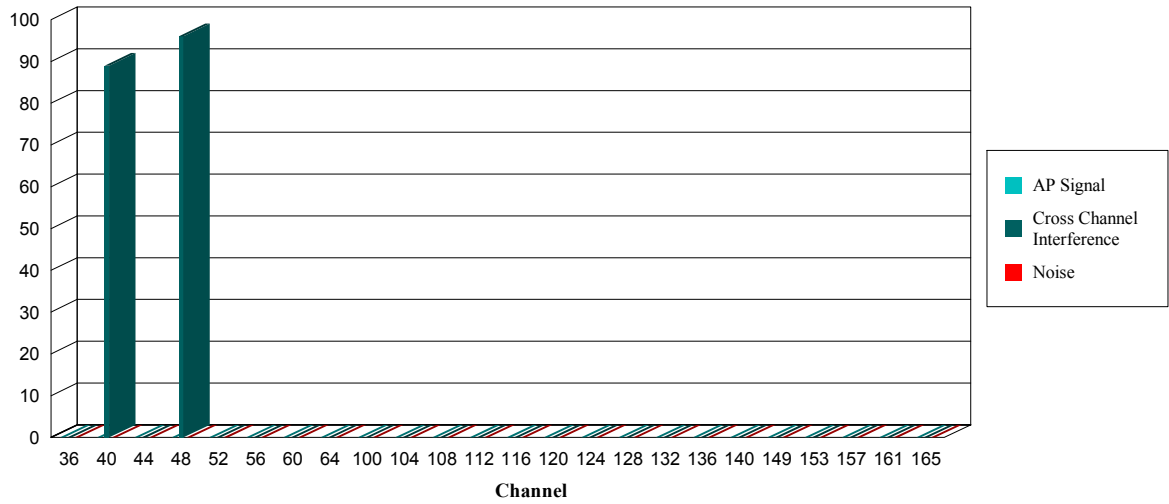
5 GHz (dBm)

Channel	Tx Ch Width	AP Signal	Cross Channel Interference	Noise	Signal / Noise
36(5GHz)	20	-100	0.00	-100	0
40(5GHz)	20	-100	72.00	-100	72
44(5GHz)	20	-100	0.00	-100	0
48(5GHz)	20	-100	77.00	-100	77
52(5GHz)	20	-100	0.00	-100	0
56(5GHz)	20	-100	0.00	-100	0

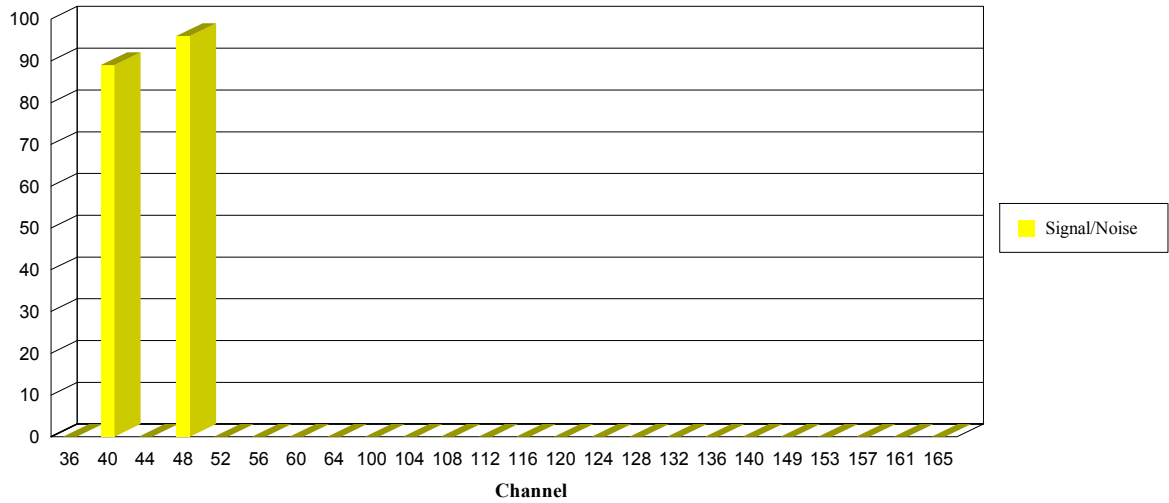
60(5GHz)	20	-100	0.00	-100	0
64(5GHz)	20	-100	0.00	-100	0
100(5GHz)	20	-100	0.00	-100	0
104(5GHz)	20	-100	0.00	-100	0
108(5GHz)	20	-100	0.00	-100	0
112(5GHz)	20	-100	0.00	-100	0
116(5GHz)	20	-100	0.00	-100	0
120(5GHz)	20	-100	0.00	-100	0
124(5GHz)	20	-100	0.00	-100	0
128(5GHz)	20	-100	0.00	-100	0
132(5GHz)	20	-100	0.00	-100	0
136(5GHz)	20	-100	0.00	-100	0
140(5GHz)	20	-100	0.00	-100	0
149(5GHz)	20	-100	0.00	-100	0
153(5GHz)	20	-100	0.00	-100	0
157(5GHz)	20	-100	0.00	-100	0
161(5GHz)	20	-100	0.00	-100	0
165(5GHz)	20	-100	0.00	-100	0



Signal, Noise (5 GHz) (%)



Signal/Noise (5 GHz) (%)



5 GHz (%)

Channel	Tx Ch Width	AP Signal	Cross Channel Interference	Noise	Signal / Noise
36(5GHz)	20	0	0	0	0
40(5GHz)	20	0	89	0	89
44(5GHz)	20	0	0	0	0
48(5GHz)	20	0	96	0	96
52(5GHz)	20	0	0	0	0

56(5GHz)	20	0	0	0	0
60(5GHz)	20	0	0	0	0
64(5GHz)	20	0	0	0	0
100(5GHz)	20	0	0	0	0
104(5GHz)	20	0	0	0	0
108(5GHz)	20	0	0	0	0
112(5GHz)	20	0	0	0	0
116(5GHz)	20	0	0	0	0
120(5GHz)	20	0	0	0	0
124(5GHz)	20	0	0	0	0
128(5GHz)	20	0	0	0	0
132(5GHz)	20	0	0	0	0
136(5GHz)	20	0	0	0	0
140(5GHz)	20	0	0	0	0
149(5GHz)	20	0	0	0	0
153(5GHz)	20	0	0	0	0
157(5GHz)	20	0	0	0	0
161(5GHz)	20	0	0	0	0
165(5GHz)	20	0	0	0	0



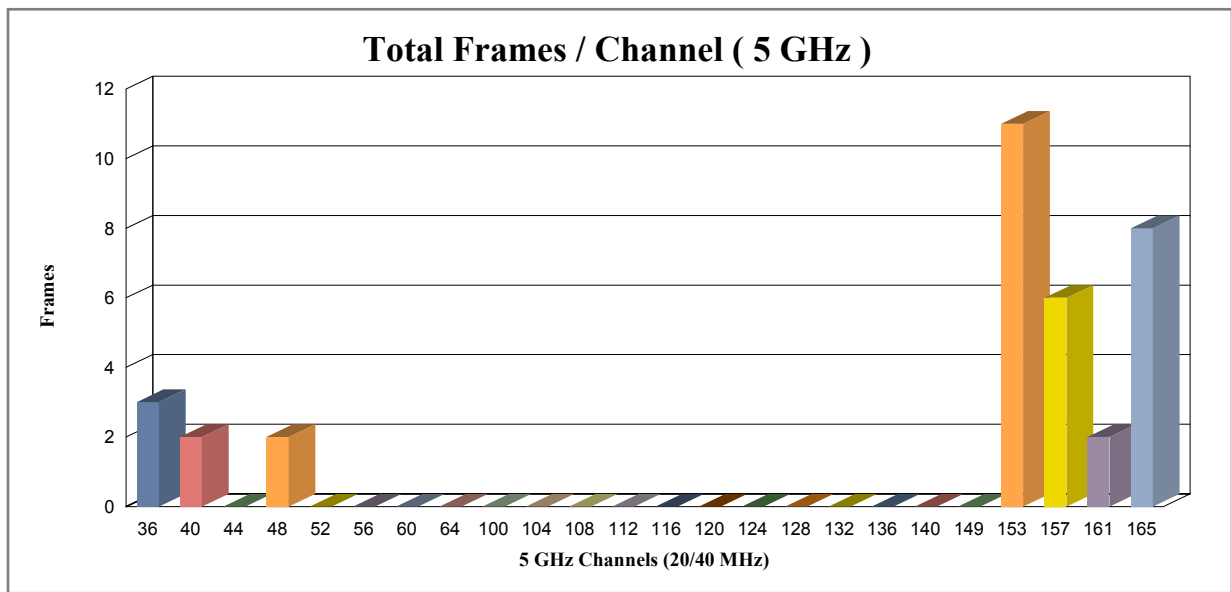
Chapter 2

Channel Summary

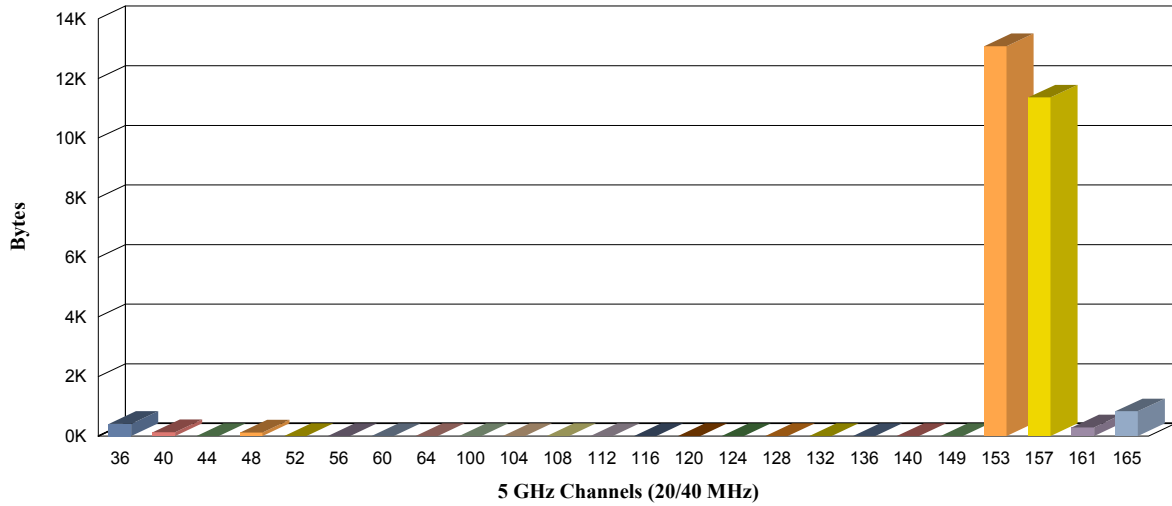
Time Period: 1969/12/31 18:00:00

Description: This report shows detail information of the all the channels that the 802.11a/b/g/n network uses in terms of channel utilization and throughput. Not only does the radio medium have bandwidth limitations, WLAN Access Points have limitations and can be overloaded by heavy traffic or a large number of associated clients.

Like the wired LAN, excessive multicast and broadcast frames can put extra burden on the WLAN devices. Overloaded devices suffer from degraded performance and cause connectivity problems, for example, AP association table overflowed by large number of clients.

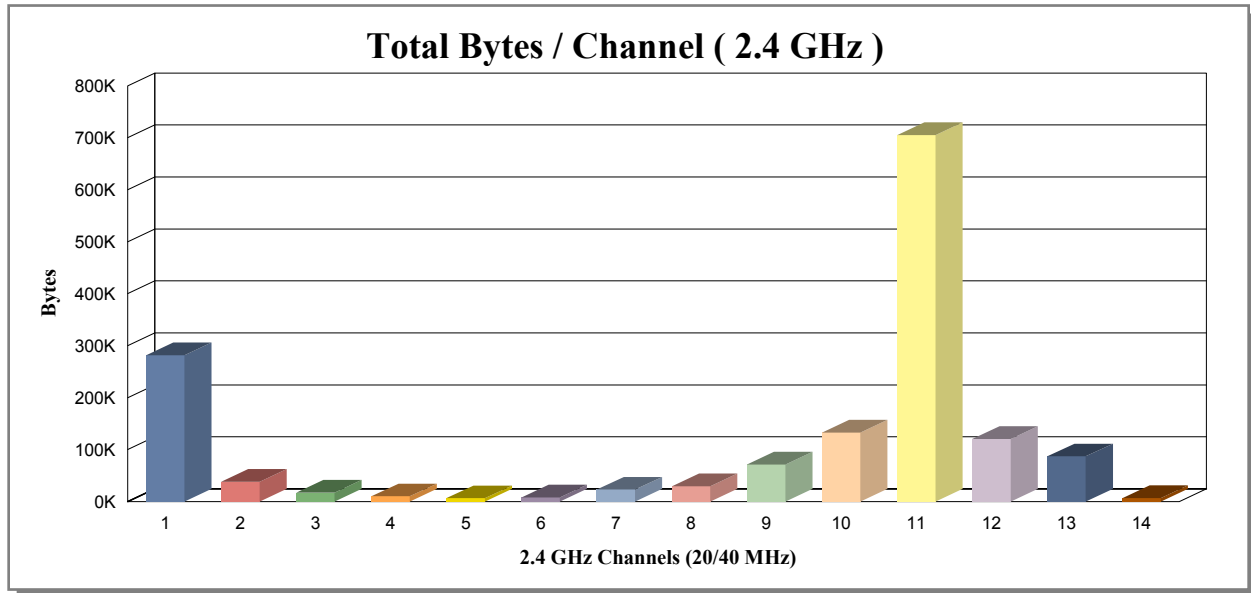
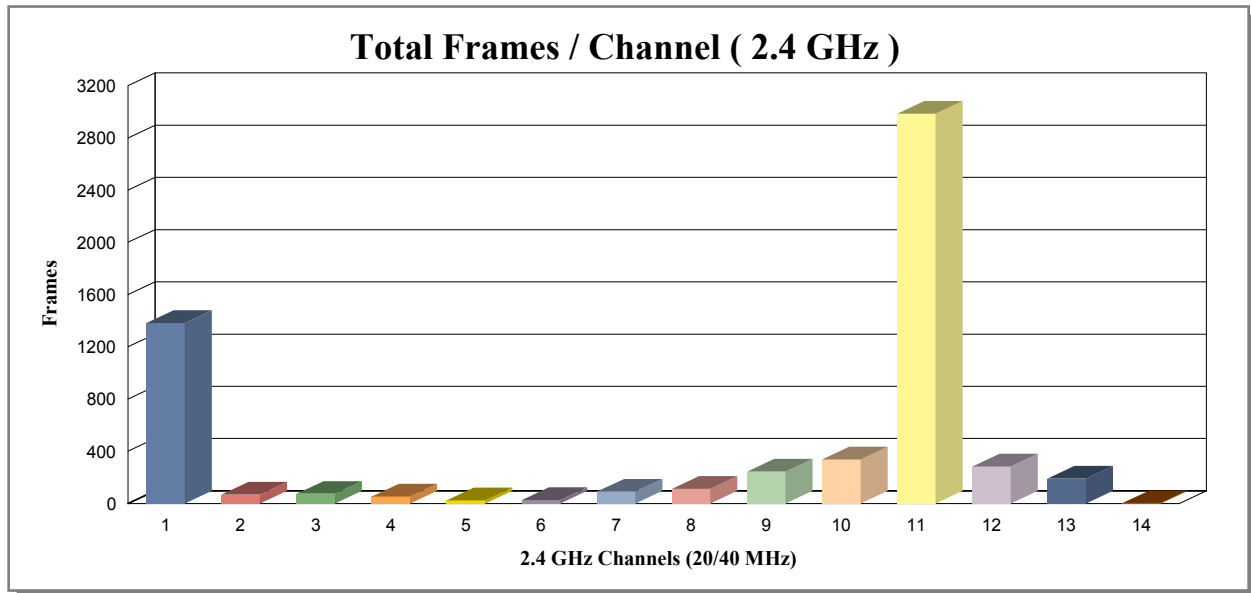


Total Bytes / Channel (5 GHz)



Channel	Frequency	Scan (ms)	Frames	Bytes	# of APs	# of STAs
36	5.180 GHz	250	3	412	0	0
40	5.200 GHz	250	2	136	0	0
44	5.220 GHz	250	0	0	0	0
48	5.240 GHz	250	2	120	0	0
52	5.260 GHz	250	0	0	0	0
56	5.280 GHz	250	0	0	0	0
60	5.300 GHz	250	0	0	0	0
64	5.320 GHz	250	0	0	0	0
100	5.500 GHz	250	0	0	0	0
104	5.520 GHz	250	0	0	0	0
108	5.540 GHz	250	0	0	0	0
112	5.560 GHz	250	0	0	0	0
116	5.580 GHz	250	0	0	0	0
120	5.600 GHz	250	0	0	0	0
124	5.620 GHz	250	0	0	0	0
128	5.640 GHz	250	0	0	0	0
132	5.660 GHz	250	0	0	0	0
136	5.680 GHz	250	0	0	0	0

140	5.700 GHz	250	0	0	0	0
149	5.745 GHz	250	0	0	0	0
153	5.765 GHz	250	11	13,084	0	0
157	5.785 GHz	250	6	11,362	0	0
161	5.805 GHz	250	2	294	0	0
165	5.825 GHz	250	8	834	0	0



Channel	Media 11 n	Frequency	Scan (ms)	Frames	Bytes	# of APs	# of STAs
1	802.11G	2.412 GHz	250	1,382	281,498	6	16
2	802.11G	2.417 GHz	250	67	38,258	0	0
3	802.11G	2.422 GHz	250	74	17,259	0	0
4	802.11G	2.427 GHz	250	54	10,161	0	0

5	802.11G	2.432 GHz	250	23	6,508	0	0
6	802.11G	2.437 GHz	250	27	7,865	0	0
7	802.11G	2.442 GHz	250	91	23,134	0	0
8	802.11G	2.447 GHz	250	111	29,632	0	0
9	802.11G	2.452 GHz	250	244	71,454	0	0
10	802.11G	2.457 GHz	250	337	132,958	0	0
11	802.11G	2.462 GHz	250	2,986	704,932	8	17
12	802.11G	2.467 GHz	250	283	120,630	0	0
13	802.11G	2.472 GHz	250	191	87,066	0	0
14	802.11G	2.484 GHz	250	3	6,687	0	0
























Chapter 3

Hierarchy By SSID List

Time Period: 1969/12/31 18:00:00

Description: This report shows the hierarchical relationship among the SSIDs used in the wireless network and the access points and stations that are using these SSIDs. This report also includes specific device information such as MAC address, Media Type, SSID, Channel, Security settings used and the times when the device was first and last seen by AirMagnet.

A WLAN Access Point has only limited resources and therefore it can service only a limited number of clients. When the limit is reached, additional clients may be rejected in service, or lead to degraded performance for the existing clients. When designing a WLAN equipment deployment and provisioning for service, this limitation should be considered. After deployment, the limitation may be challenged by the growing number of users therefore requires constant monitoring for under-provisioned deployment. This gives great details on the wireless assets and various options for viewing and managing your device hierarchy per access point.

Astra		Channel	Security	First Seen	Last Seen
	Cisco:61:95:C2-GN(Michael)	11	WPA2-Personal	07/25/12 14:27:39	07/25/12 14:34:03
	Cisco:61:97:72-GN(Uriel)	11	WPA2-Personal	07/25/12 14:27:39	07/25/12 14:34:03
	Cisco:61:94:82-GN(Gabriel)	1	WPA2-Personal	07/25/12 14:27:36	07/25/12 14:34:00
	Cisco:EB:A1:C2-GN(Seraphiel)	1	WPA2-Personal	07/25/12 14:27:36	07/25/12 14:34:00
Paradise		Channel	Security	First Seen	Last Seen
	Cisco:61:95:C0-GN(Michael)	11	WPA2-Enterprise	07/25/12 14:27:39	07/25/12 14:34:03
	38:E7:D8:B3:C4:E7-GN	11	Unknown	07/25/12 14:27:40	07/25/12 14:34:02
	Apple:1D:CA:1C-GN	11	WPA2-Enterprise	07/25/12 14:29:07	07/25/12 14:31:59
	02:C0:17:A4:2D:CA-AG	11	WPA-Personal	07/25/12 14:28:16	07/25/12 14:33:00
	F0:7B:CB:25:A4:55-BG	11	WPA2-Enterprise	07/25/12 14:27:37	07/25/12 14:33:47
	Cisco:61:97:70-GN(Uriel)	11	WPA2-Enterprise	07/25/12 14:27:39	07/25/12 14:34:03
	Cisco:61:94:80-GN(Gabriel)	1	WPA2-Enterprise	07/25/12 14:27:36	07/25/12 14:34:00
	64:A7:69:72:DF:A5-GN	1	WPA2-Enterprise	07/25/12 14:27:39	07/25/12 14:33:22
	C8:AA:21:70:F6:15-GN	1	WPA2-Enterprise	07/25/12 14:27:52	07/25/12 14:30:17
	Cisco:EB:A1:C0-GN(Seraphiel)	1	WPA2-Enterprise	07/25/12 14:27:36	07/25/12 14:34:02
	Intel:2A:4F:30-GN	1	WPA2-Enterprise	07/25/12 14:29:17	07/25/12 14:32:45
	88:53:2E:EB:FF:96-GN	1	WPA2-Personal	07/25/12 14:29:28	07/25/12 14:33:59
	1C:AB:A7:AC:15:0E-?	?	Unknown	07/25/12 14:28:00	07/25/12 14:34:03
	30:69:4B:E3:89:9B-BG	?	Unknown	07/25/12 14:28:16	07/25/12 14:29:19
	C0:F8:DA:63:80:9E-?	?	Unknown	07/25/12 14:28:25	07/25/12 14:33:27
Unknown		Channel	Security	First Seen	Last Seen
	C4:0A:CB:EB:98:B0-B	?	Unknown	07/25/12 14:27:48	07/25/12 14:27:48
	1C:AA:07:C7:7A:41-GN(ap-503-1)	11	WPA2-Enterprise	07/25/12 14:27:40	07/25/12 14:34:03






Capture File:C:\Program Files (x86)\AirMagnet Inc\AirMagnet Laptop\AMLiveCapture



 1C:AA:07:C7:7A:42-GN(ap-503-1)	11	WPA2-Personal	07/25/12 14:27:39	07/25/12 14:34:03
 98:0C:82:45:D2:89-GN	11	Unknown	07/25/12 14:27:52	07/25/12 14:30:33
 98:0C:82:71:0D:C5-GN	11	Encrypted	07/25/12 14:28:53	07/25/12 14:33:25
 C0:F8:DA:63:80:76-GN	11	Encrypted	07/25/12 14:28:04	07/25/12 14:34:03
 C0:F8:DA:63:80:82-GN	11	Encrypted	07/25/12 14:28:04	07/25/12 14:33:50
 EC:55:F9:5E:22:7E-BG	11	Encrypted	07/25/12 14:27:40	07/25/12 14:34:03
 EC:55:F9:5E:22:80-GN	11	Encrypted	07/25/12 14:27:40	07/25/12 14:34:03
 EC:55:F9:5E:23:C6-GN	11	Encrypted	07/25/12 14:27:39	07/25/12 14:34:03
 7C:E9:D3:1B:D7:B8-GN	11	Unknown	07/25/12 14:29:43	07/25/12 14:29:43
 C0:F8:DA:63:76:83-GN	11	Encrypted	07/25/12 14:27:40	07/25/12 14:34:03
 C0:F8:DA:63:80:81-BG	11	Encrypted	07/25/12 14:28:54	07/25/12 14:31:59
 EC:55:F9:5E:23:A3-BG	11	Encrypted	07/25/12 14:27:40	07/25/12 14:34:03
 EC:55:F9:5E:23:D5-GN	11	Encrypted	07/25/12 14:27:40	07/25/12 14:33:50
 Apple:CD:12:3F-BG	11	Encrypted	07/25/12 14:27:39	07/25/12 14:34:03
 04:46:65:F6:18:A1-GN	1	Encrypted	07/25/12 14:27:36	07/25/12 14:32:45
 28:6A:BA:C4:D6:82-?	1	Unknown	07/25/12 14:31:43	07/25/12 14:31:43
 60:D8:19:5A:1D:9B-BG	1	Encrypted	07/25/12 14:28:13	07/25/12 14:33:22
 EC:55:F9:5E:23:B9-GN	1	Unknown	07/25/12 14:27:36	07/25/12 14:33:47
 60:D8:19:5A:09:39-GN	1	Encrypted	07/25/12 14:27:49	07/25/12 14:34:00
 B8:17:C2:4B:E1:BD-GN	1	Encrypted	07/25/12 14:28:25	07/25/12 14:30:05
 D0:23:DB:60:F8:E5-GN	1	Encrypted	07/25/12 14:28:01	07/25/12 14:29:52
 D8:B3:77:3F:76:12-GN	1	Unknown	07/25/12 14:28:01	07/25/12 14:32:08
 EC:55:F9:5E:23:B5-BG	1	Encrypted	07/25/12 14:28:13	07/25/12 14:32:57
 EC:55:F9:5E:26:53-GN	1	Encrypted	07/25/12 14:28:01	07/25/12 14:33:47
 EC:55:F9:5E:26:55-?	1	Encrypted	07/25/12 14:28:38	07/25/12 14:33:47
 Intel:C2:5A:50-BG	1	Encrypted	07/25/12 14:29:40	07/25/12 14:33:00
 00:F4:B9:1A:13:12-?	?	Unknown	07/25/12 14:28:41	07/25/12 14:28:41
 02:21:55:61:94:80-?	?	Unknown	07/25/12 14:31:55	07/25/12 14:31:55
 02:21:55:61:95:C0-?	?	Unknown	07/25/12 14:31:10	07/25/12 14:31:10
 02:22:90:EB:A1:C0-?	?	Unknown	07/25/12 14:29:52	07/25/12 14:29:52
 04:0C:CE:A7:E2:D6-?	?	Unknown	07/25/12 14:30:17	07/25/12 14:30:57
 18:46:17:ED:37:FB-?	?	Unknown	07/25/12 14:28:54	07/25/12 14:28:54
 1C:AB:A7:B2:EF:2D-?	?	Unknown	07/25/12 14:29:43	07/25/12 14:29:43
 1E:AA:07:C7:7A:40-?	?	Unknown	07/25/12 14:28:17	07/25/12 14:28:17
 24:AB:81:B1:7C:97-?	?	Unknown	07/25/12 14:30:08	07/25/12 14:30:08
 3C:D0:F8:91:DD:37-?	?	Unknown	07/25/12 14:33:38	07/25/12 14:33:38
 4C:B1:99:DB:D9:B6-GN	?	Unknown	07/25/12 14:31:44	07/25/12 14:31:44
 60:FA:CD:67:F6:A7-GN	?	Unknown	07/25/12 14:30:31	07/25/12 14:30:32
 64:B9:E8:A0:29:2D-?	?	Unknown	07/25/12 14:32:08	07/25/12 14:32:08
 68:A8:6D:E0:40:6E-GN	?	Unknown	07/25/12 14:31:57	07/25/12 14:32:10
 7C:6D:62:09:F3:6A-BG	?	Unknown	07/25/12 14:29:05	07/25/12 14:30:33

Capture File:C:\Program Files (x86)\AirMagnet Inc\AirMagnet Laptop\AMLiveCapture



	90:27:E4:5B:50:28-?	?	Unknown	07/25/12 14:27:52	07/25/12 14:27:52
	98:0C:82:59:0A:D3-GN	?	Unknown	07/25/12 14:33:38	07/25/12 14:33:38
	98:0C:82:78:2C:B7-GN	?	Unknown	07/25/12 14:28:04	07/25/12 14:28:04
	C0:F8:DA:63:69:95-?	?	Unknown	07/25/12 14:27:36	07/25/12 14:27:49
	C0:F8:DA:63:78:5A-?	?	Unknown	07/25/12 14:28:04	07/25/12 14:28:04
	CC:08:E0:7A:88:3D-B	?	Unknown	07/25/12 14:27:39	07/25/12 14:33:13
	D4:20:6D:2F:44:37-BG	?	Unknown	07/25/12 14:27:52	07/25/12 14:33:50
	EC:55:F9:5E:23:B4-?	?	Unknown	07/25/12 14:28:04	07/25/12 14:33:50
	EC:85:2F:96:3A:6B-GN	?	Unknown	07/25/12 14:32:57	07/25/12 14:33:50
	Symbol:DA:BD:6A-B	?	Unknown	07/25/12 14:27:48	07/25/12 14:27:48

	Vacation	Channel	Security	First Seen	Last Seen
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	Cisco:61:95:C1-BG(Michael)	11	WPA-Personal	07/25/12 14:27:39	07/25/12 14:34:03
	Cisco:61:97:71-BG(Uriel)	11	WPA-Personal	07/25/12 14:27:40	07/25/12 14:34:03
	Cisco:61:94:81-BG(Gabriel)	1	WPA-Personal	07/25/12 14:27:36	07/25/12 14:34:00
	Cisco:EB:A1:C1-BG(Seraphiel)	1	WPA-Personal	07/25/12 14:27:36	07/25/12 14:34:00



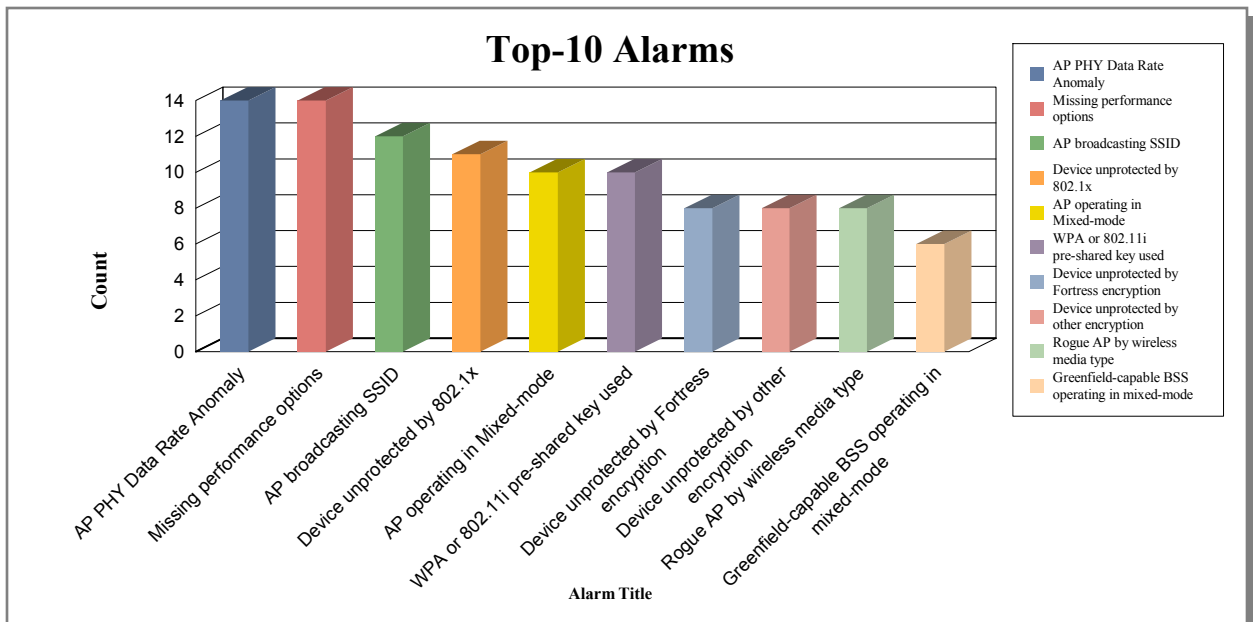
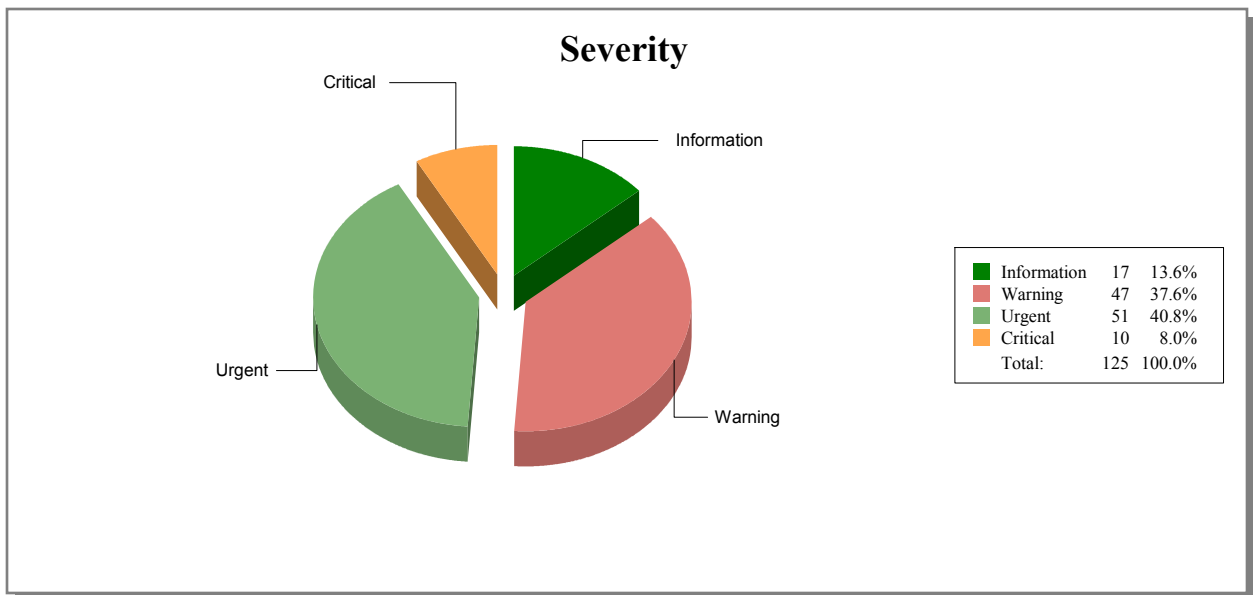
Chapter 4

Alarm Statistics

Time Period: 1969/12/31 18:00:00

Description: This report provides a statistical view of Top-10 policy violations (Security IDS/IPS and Performance Intrusion) that have occurred on the 802.11 network. This report provides pie-charts and lists all the policy violations on the basis of severity of the violations such as critical, urgent, warning and information.

An insecure network can usually be fixed by reconfiguring some of the network equipment, by using additional software or hardware and always being in the forefront of implementing the latest security standards to provide good security for sensitive data such as employee salary data or company financial information.



Alarm Summary Table by Severity

Severity: Information	# of Alarms
Alarm Title	
Device using open authentication	3
Missing performance options	14
Sub Total:	17

Severity: Warning	# of Alarms
Alarm Title	
Excessive Low Speed Transmission on Channel	1
Device Probing for APs	1
Channel with overloaded APs	2
Excessive roaming or re-associations	1
Overlapping Legacy BSS Condition (OLBC) exist:	2
HT-enabled AP with OLBC	5
OLBC detected on channel not implementing prote	2
AP operating in Mixed-mode	10
Mixed-mode AP not implementing protection mecl	2
Greenfield-capable BSS operating in mixed-mode	6
AP PHY Data Rate Anomaly	14
Device Unprotected by EAP-TLS	1
Sub Total:	47

Severity: Urgent	# of Alarms
Alarm Title	
Device unprotected by 802.1x	11
AP broadcasting SSID	12

Device unprotected by Fortress encryption	8
WPA or 802.11i pre-shared key used	10
Device unprotected by EAP-FAST	1
Device unprotected by other encryption	8
Device unprotected by 802.11i/AES	1
Sub Total:	51

Severity: Critical	# of Alarms
Alarm Title	
Rogue AP by wireless media type	8
Rogue station by wireless media type	2
Sub Total:	10

Total 125

