



## AirCheck Detail Report

### AirCheck Information

**Serial Number** 1267002

**File** SN000179

**Date/Time Recorded**

**MAC** 00:C0:17:32:01:44

**Profile** STUWIFI

8/4/2014 9:33:16 AM

---

**AirCheck Information**

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44





Profile STUWIFI


8/4/2014 9:33:16 AM

  **AutoTest Results**





 **Air Quality**


 **802.11 Channel Utilization**

-  2.4GHz
  -  Ch 11: 11% utilization 50% or lower
  -  Ch 1: 9% utilization 50% or lower
  -  Ch 5: 7% utilization 50% or lower





 5GHz  
No Utilization


 **Non-802.11 Channel Utilization**

-  2.4GHz
  -  Ch 6: 15% utilization 30% or lower
  -  Ch 5: 15% utilization 30% or lower
  -  Ch 11: 14% utilization 30% or lower

 5GHz  
No Utilization





 **Co-Channel Interference**

-  2.4GHz
  -  Channel 11: 2 Access Point(s) with -75 dBm or higher
  -  Channel 1: 2 Access Point(s) with -75 dBm or higher
  -  Channel 6: 1 Access Point(s) with -75 dBm or higher

 5GHz  
No Utilization









 **Network Quality**

 **SSID: DIS**

-  Coverage: 1 Access Point(s) with good signal quality
-  Interference: No interfering Access Points detected
-  Security: All Access Points use same security
-  Connection: Pass

Access Point Name: AsusTk:001fc6-ce5398

Access Point Channel: 1 (2,412GHz)

-  802.11 Authorization
-  User Authorization
-  IP Address: 192.168.000.106
-  Packet Rate: 135 Mbps
-  Retry rate: 0%
-  Ping Test: 192.168.0.2
-  Ping Test: 192.168.0.2
-  Ping Test: 192.168.0.2

 **Rogue Access Points Test is disabled**

 **Ad Hoc Networks are not detected**

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded




MAC 00:C0:17:32:01:44

Profile STUWIFI




8/4/2014 9:33:16 AM

## AutoTest Thresholds




### 802.11 Channel Utilization

-  802.11 > 85%
-  802.11 > 50%
-  802.11 <= 50%




### Non-802.11 Channel Utilization

-  Non-802.11 > 65%
-  Non-802.11 > 30%
-  Non-802.11 <= 30%




### Co-Channel Interference

-  More than 12 Access Point(s) with Signal Level >= -75 dBm on same channel
-  More than 4 Access Point(s) with Signal Level >= -75 dBm on same channel
-  No more than 4 Access Point(s) with Signal Level >= -75 dBm on same channel




### Network Coverage

-  No Access Points discovered or no Access Points with Signal Level >= -85 dBm and Signal Quality >= 10 dB
-  At least one Access Point with Signal Level >= -85 dBm and Signal Quality >= 10 dB
-  At least 1 Access Point(s) with Signal Level >= -70 dBm and Signal Quality >= 25 dB




### Network Co-Channel Interference

-  More than 10 Access Point(s) with Signal Level >= -75 dBm on same channel
-  More than 3 Access Point(s) with Signal Level >= -75 dBm on same channel
-  No more than 3 Access Point(s) with Signal Level >= -75 dBm on same channel

### Connection Retry Rate

-  Retry Rate > 50%
-  Retry Rate > 40%
-  Retry Rate <= 40%

### Connection Packet Rate

-  Actual Packet Rate < 10% of Access Point maximum supported Tx rate
-  Actual Packet Rate < 30% of Access Point maximum supported Tx rate
-  Actual Packet Rate >= 30% of Access Point maximum supported Tx rate



# AirCheck Detail Report

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Networks Summary

### Total SSIDs:5

SSID	*Mode	802.11 Types	#APs	APs	Best Ap Signal dBm	Security	Notes
DIS	I	b,g,n	1	AsusTk:CE:53:98	-58	WPA2-P(AES-CCMP)	40 MHz 802.11n is not recommended on 2.4 GHz
EMAGD	I	b,g	2	PheeNt:00:A0:6E PheeNt:00:A0:68	-51	WPA2-E(AES-CCMP)	
EMAGD-SRV	I	b,g,n	1	CE:D3:A3:98:D0:DE	-81	WPA2-P(AES-CCMP)	40 MHz 802.11n is not recommended on 2.4 GHz
VDO-METTEM	I	b,g,n	1	BC:EE:7B:6D:F9:78	-69	WPA2-P(AES-CCMP)	
VDO-METTEM-ASUS	I	b,g,n	1	Natnl:8D:D0:0B	-74	WPA2-P(AES-CCMP)	

\*Mode Legend:

I=Infrastructure

A=Adhoc

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Networks Detail

### SSID: DIS

Vendor MAC/BSSID	Meru AP/Radio ID	Name	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supporte d Rates (Mbps)
AsusTk 00:1F:C6:CE:53:98			1	-58	38	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 300

### SSID: EMAGD

Vendor MAC/BSSID	Meru AP/Radio ID	Name	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supporte d Rates (Mbps)
PheeNt 00:1A:50:00:A0:68			6	-51	47	Unknown	WPA2-E(AES-CCMP)	b,g	0/--	1 - 54
PheeNt 00:1A:50:00:A0:6E			1	-60	36	Unknown	WPA2-E(AES-CCMP)	b,g	0/--	1 - 54

### SSID: EMAGD-SRV

Vendor MAC/BSSID	Meru AP/Radio ID	Name	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supporte d Rates (Mbps)
CE:D3:A3:98:D0:DE			5	-81	17	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 300

### SSID: VDO-METTEM

Vendor MAC/BSSID	Meru AP/Radio ID	Name	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supporte d Rates (Mbps)
BC:EE:7B:6D:F9:78			11	-69	27	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 144

### SSID: VDO-METTEM-ASUS

Vendor MAC/BSSID	Meru AP/Radio ID	Name	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supporte d Rates (Mbps)
Natnl AC:22:0B:8D:D0:0B			11	-74	22	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 144



**AirCheck Information**

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

**Access Points Summary**

**Total Access Points:6**

Access Point	Authorizati on (ACL)	802.11 Types	Ch	# SSID	SSID	Best Ap Signal dBm	Security	Notes
AsusTk:001fc6- ce5398	Unknown	b,g,n	1	1	DIS	-58	WPA2-P(AES- CCMP)	40 MHz 802.11n is not recommended on 2.4 GHz
bcee7b-6df978	Unknown	b,g,n	11	1	VDO-METTEM	-69	WPA2-P(AES- CCMP)	
ced3a3-98d0de	Unknown	b,g,n	5	1	EMAGD-SRV	-81	WPA2-P(AES- CCMP)	40 MHz 802.11n is not recommended on 2.4 GHz
Natnl:ac220b- 8dd00b	Unknown	b,g,n	11	1	VDO-METTEM-ASUS	-74	WPA2-P(AES- CCMP)	
PheeNt:001a50- 00a068	Unknown	b,g	6	1	EMAGD	-51	WPA2-E(AES- CCMP)	
PheeNt:001a50- 00a06e	Unknown	b,g	1	1	EMAGD	-60	WPA2-E(AES- CCMP)	

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Access Points Detail

**Name: AsusTk:001fc6-ce5398**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
AsusTk 00:1F:C6:CE:53:98		DIS	1	-58	38	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 300

**Name: bcee7b-6df978**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
BC:EE:7B:6D:F9:78		VDO-METTEM	11	-69	27	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 144

**Name: ced3a3-98d0de**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
CE:D3:A3:98:D0:DE		EMAGD-SRV	5	-81	17	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 300

**Name: Natnl:ac220b-8dd00b**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
Natnl AC:22:0B:8D:D0:0B		VDO-METTEM-ASUS	11	-74	22	Unknown	WPA2-P(AES-CCMP)	b,g,n	0/--	1 - 144

**Name: PheeNt:001a50-00a068**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
PheeNt 00:1A:50:00:A0:68		EMAGD	6	-51	47	Unknown	WPA2-E(AES-CCMP)	b,g	0/--	1 - 54

**Name: PheeNt:001a50-00a06e**

**Mode: Infrastructure**

Vendor MAC/BSSID	Meru AP/Radio ID	SSID	Ch	Signal (dBm)	SNR (dB)	Authorization (ACL)	Security	802.11 Types	Discovered /Reported Clients	Supported Rates (Mbps)
PheeNt 00:1A:50:00:A0:6E		EMAGD	1	-60	36	Unknown	WPA2-E(AES-CCMP)	b,g	0/--	1 - 54

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Clients Summary

Total Clients:3

Vendor	MAC	Associated SSID	Associated AP	Signal
	F4:F1:5A:A8:C9:D0			-66 dBm
	D0:51:62:F8:6F:A6			-90 dBm
	20:64:32:DE:D5:10			-53 dBm

## Probing Clients Detail

Vendor	MAC	Probed Channels	Probed SSIDs	Signal
	D0:51:62:F8:6F:A6	2.4 GHz: 8 5 GHz: --	Ersh_FREE_Wi-Fi, MASTERotDRUGA.ru199, Yakitoriya, MTS_WiFi_free, Doberman, boston pub, HomeAP, Boston Pub, Chaihona_WiFi_FREE, DIS, TerminalServis	-90 dBm
	20:64:32:DE:D5:10	2.4 GHz: 1 5 GHz: --	DIS	-53 dBm
	F4:F1:5A:A8:C9:D0	2.4 GHz: 12 5 GHz: --		-66 dBm

## Associated Clients Detail

N/A



## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Channels Summary

### 2.4 GHz

Ch	Freq (GHz)	AP Count	Client Count	# Dup SSIDs	Total Util (%)		802.11 Util (%)		Non-802.11 Util (%)		User Offset
					Avg	Last	Avg	Last	Avg	Last	
1	2,412	2	0	0	22	29	9	9	13	20	0 dB
2	2,417	0	0	0	23	19	10	6	13	13	0 dB
3	2,422	0	0	0	31	32	5	13	26	19	0 dB
4	2,427	0	0	0	28	21	6	2	22	19	0 dB
5	2,432	1	0	0	22	19	7	11	15	8	0 dB
6	2,437	1	0	0	20	19	4	6	16	13	0 dB
7	2,442	0	0	0	20	18	4	5	16	13	0 dB
8	2,447	0	0	0	27	18	6	0	21	18	0 dB
9	2,452	0	0	0	16	15	0	0	16	15	0 dB
10	2,457	0	0	0	19	11	5	4	14	7	0 dB
11	2,462	2	0	0	25	16	11	9	14	7	0 dB
12	2,467	0	0	0	18	15	3	5	15	10	0 dB
13	2,472	0	0	0	14	8	0	1	14	7	0 dB
<b>*14</b>	2,484	0	0	0	9	4	1	1	8	3	0 dB

\*Illegal Channel



# AirCheck Detail Report

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

### 5 GHz

Ch	Freq (GHz)	AP Count	Client Count	# Dup SSIDs	Total Util (%)		802.11 Util (%)		Non-802.11 Util (%)		User Offset
					Avg	Last	Avg	Last	Avg	Last	
*34	5,170	0	0	0	0	0	0	0	0	0	0 dB
36	5,180	0	0	0	0	0	0	0	0	0	0 dB
*38	5,190	0	0	0	0	0	0	0	0	0	0 dB
40	5,200	0	0	0	0	0	0	0	0	0	0 dB
*42	5,210	0	0	0	0	0	0	0	0	0	0 dB
44	5,220	0	0	0	0	0	0	0	0	0	0 dB
*46	5,230	0	0	0	0	0	0	0	0	0	0 dB
48	5,240	0	0	0	0	0	0	0	0	0	0 dB
52	5,260	0	0	0	0	0	0	0	0	0	0 dB
56	5,280	0	0	0	0	0	0	0	0	0	0 dB
60	5,300	0	0	0	0	0	0	0	0	0	0 dB
64	5,320	0	0	0	0	0	0	0	0	0	0 dB
100	5,500	0	0	0	0	0	0	0	0	0	0 dB
104	5,520	0	0	0	0	0	0	0	0	0	0 dB
108	5,540	0	0	0	0	0	0	0	0	0	0 dB
112	5,560	0	0	0	0	0	0	0	0	0	0 dB
116	5,580	0	0	0	0	0	0	0	0	0	0 dB
120	5,600	0	0	0	0	0	0	0	0	0	0 dB
124	5,620	0	0	0	0	0	0	0	0	0	0 dB
128	5,640	0	0	0	0	0	0	0	0	0	0 dB
132	5,660	0	0	0	0	0	0	0	0	0	0 dB
136	5,680	0	0	0	0	0	0	0	0	0	0 dB
140	5,700	0	0	0	0	0	0	0	0	0	0 dB
149	5,745	0	0	0	0	0	0	0	0	0	0 dB
153	5,765	0	0	0	0	0	0	0	0	0	0 dB
157	5,785	0	0	0	0	0	0	0	0	0	0 dB
161	5,805	0	0	0	0	0	0	0	0	0	0 dB
165	5,825	0	0	0	0	0	0	0	0	0	0 dB

\*Illegal Channel

**AirCheck Information**

Serial Number 1267002

File SN000179

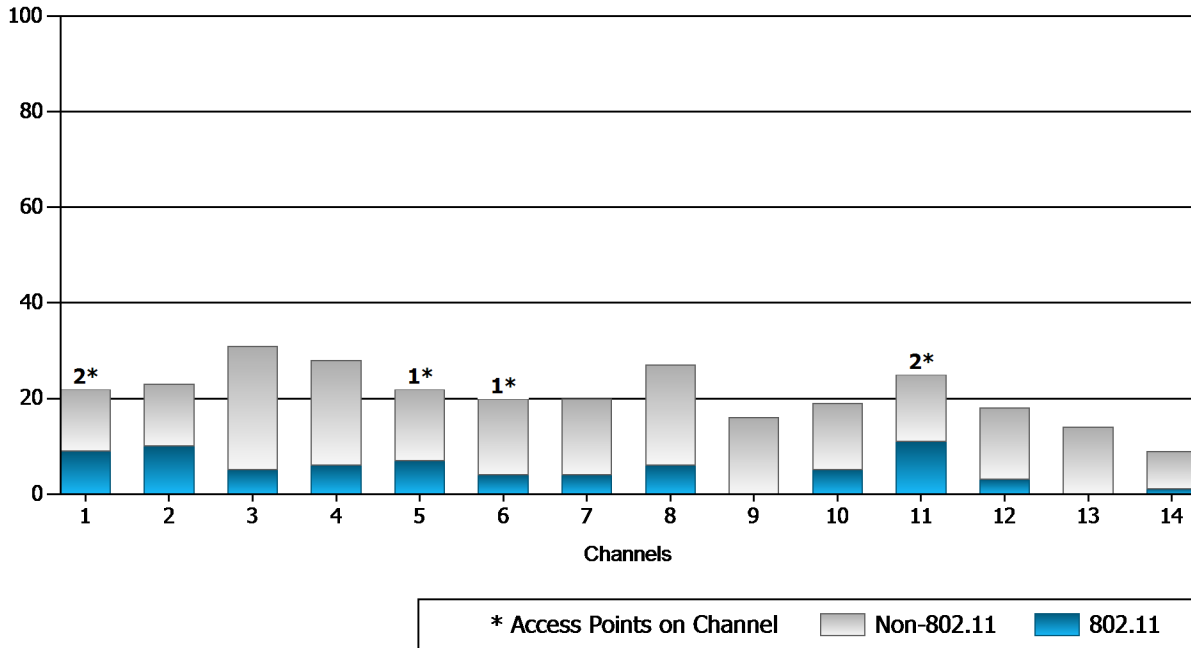
Date/Time Recorded

MAC 00:C0:17:32:01:44

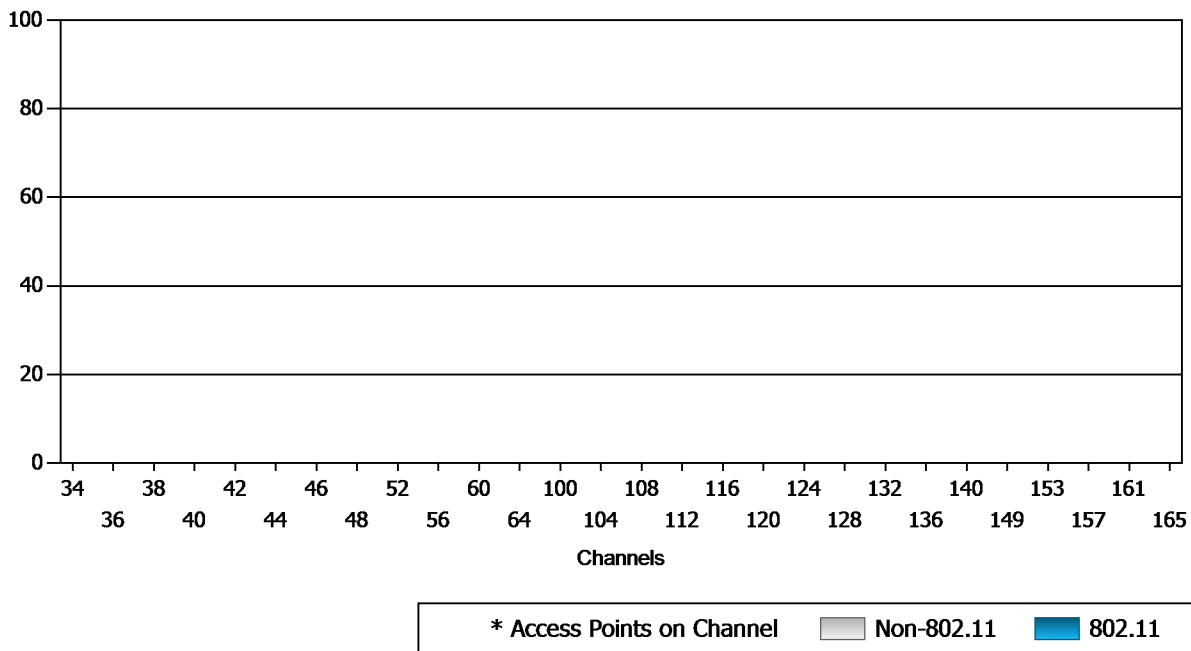
Profile STUWIFI

8/4/2014 9:33:16 AM

**2.4 GHz: Average Utilization (%)**



**5 GHz: Average Utilization (%)**



**AirCheck Information**

Serial Number 1267002

File SN000179

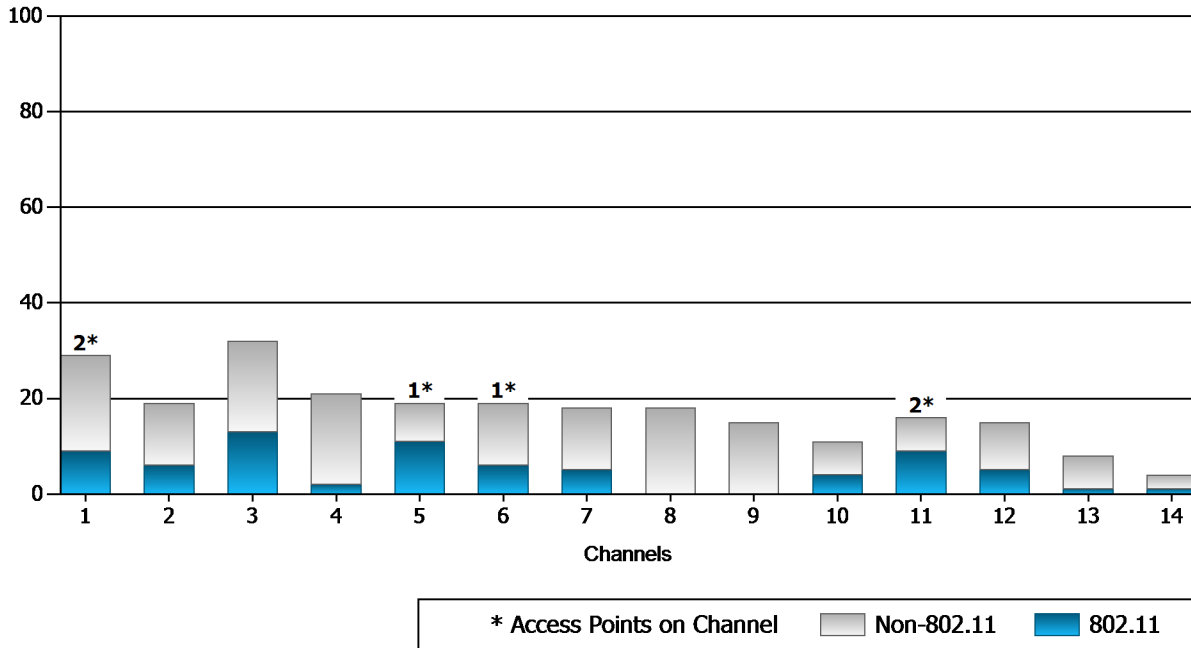
Date/Time Recorded

MAC 00:C0:17:32:01:44

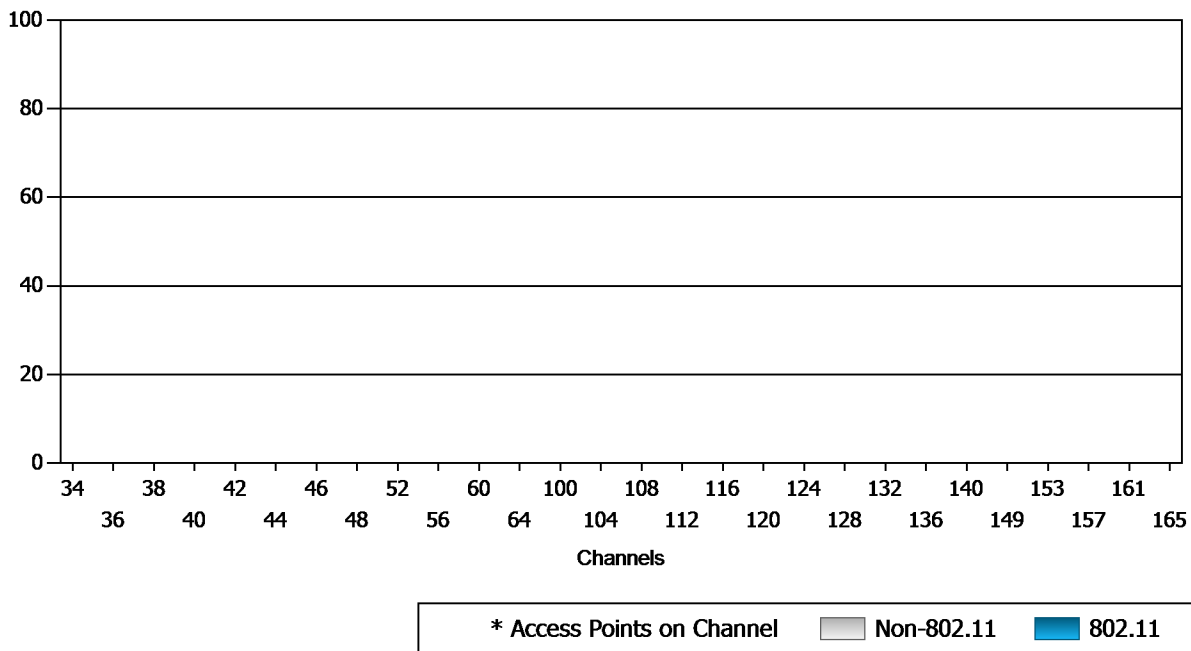
Profile STUWIFI

8/4/2014 9:33:16 AM

**2.4 GHz: Last Utilization (%)**



**5 GHz: Last Utilization (%)**



## AirCheck Information

**Serial Number** 1267002

**File** SN000179

**Date/Time Recorded**

**MAC** 00:C0:17:32:01:44

**Profile** STUWIFI

8/4/2014 9:33:16 AM

## AirCheck Connections

### Connection Summary: DIS

**SSID:** DIS

**Name:** AsusTk:001fc6-ce5398

**BSSID:** 00:1F:C6:CE:53:98

**Last Data Rate:** 300Mbps

#### Connection Process:

- Соединение установлено
  - Произведен обм. пакет. с ТД
  - ТД осуществила аутентифик.
  - Подключено к сети
- IP-адрес: 192.168.000.106
  - Обмен пакетами с серв. DHCP
  - Получено приглашение DHCP
  - Новый IP-адрес допустим
- Найдено целевых устройств: 3/3
  - Шлюз: 192.168.000.002
    - Мин: 8ms, сред: 14ms, макс: 33ms
    - Отправл.:10,получ.:10,потер.:0
  - DHCP:192.168.000.002
    - Мин: 3ms, сред: 4ms, макс: 6ms
    - Отправл.:10,получ.:10,потер.:0
  - DNS 1: 192.168.000.002
    - Мин: 3ms, сред: 8ms, макс: 22ms
    - Отправл.:9,получ.:9,потер.:0

**Connection Duration:** 00:00:11

**IP Resolution:** DHCP

**IP Address:** 192.168.000.106

**DHCP Server Address:** 192.168.000.002

**Subnet Mask:** 255.255.255.000

**Default Gateway:** 192.168.000.002

**Primary DNS:** 192.168.000.002

**Secondary DNS:**

## AirCheck Information

Serial Number 1267002

File SN000179

Date/Time Recorded

MAC 00:C0:17:32:01:44

Profile STUWIFI

8/4/2014 9:33:16 AM

## Connection Log: DIS

Elapsed Time (sec)	Result
0	Подключение: инициализация
0	Подключение: обнаружено совпадение в профиле. используются предварит. настройки
0	Профиль: Настроенное подтверждение подлинности: WPA2-PSK
0	Профиль: настроен механизм шифрования: AES-CCMP
0.305	802.11: начинается поиск точек доступа с SSID
0.411	802.11: обнаружена целевая точка доступа. BSSID: 001fc6-ce5398
0.435	802.11: получен сканирующий отклик от целевой точки доступа
1.375	802.11: производится отправка запроса на аутентификацию
1.378	802.11: аутентификация прошла успешно
1.378	802.11: производится отправка запроса на подключение
1.393	802.11: подключение прошло успешно
1.393	Подключить: Установлено соединение с точкой доступа. BSSID: 001fc6-ce5398
1.402	802.1X: запуск процесса аутентификации EAP
1.409	802.1X: получен старт четырехстороннего ключа EAP с серверным значением поспе
1.414	802.1X: отправляется 4-сторонний ключ EAP с клиентским знач. поспе и элем. инф.
1.434	802.1X: получен четырехсторонний ключ EAP
1.439	802.1X: четырехсторонний ключ содержит зашифрованные данные
1.441	802.1X: отправляется четырехсторонний ключ EAP
1.446	DHCP: отправлен запрос на обнаружение
1.449	802.1X: завершено
2.494	DHCP: получено предложение
2.496	DHCP: осуществляется запрос о выделении адреса
2.608	DHCP: запрос принят сервером
2.609	DHCP: проверка выделяемого адреса на занятость
3.515	DHCP: проверка выделяемого адреса на занятость
4.015	DHCP: проверка выделяемого адреса на занятость
4.515	DHCP: превышен интервал ожидания ARP. Выделен адрес
4.516	DHCP: операция успешно завершена
4.516	DHCP: IP-адрес: 192.168.000.106
4.516	DHCP: маска подсети: 255.255.255.000
4.516	DHCP: шлюз: 192.168.000.002
4.516	DHCP: IP-адрес сервера: 192.168.000.002
4.516	DHCP: основной сервер DNS: 192.168.000.002
4.516	DHCP: дополнительный сервер DNS: 000.000.000.000
10.917	802.11: производится отправка запроса на деаутентификацию
10.931	Подключение: отключено

**AirCheck Information**

**Serial Number** 1267002

**File** SN000179

**Date/Time Recorded**

**MAC** 00:C0:17:32:01:44

**Profile** STUWIFI

8/4/2014 9:33:16 AM

---

**AirCheck Information**

**Software Version:** 3.0 Сборка: 5433

**USB Version:** 2-1027

**Radio Version:** 27.0.40.1.b0.0.c0

**AirCheck Radio Setting:** RU

**AirCheck Country Setting:** Russia

**Session Duration:** 00:00:36

**AirCheck Manager Version:** 3.0