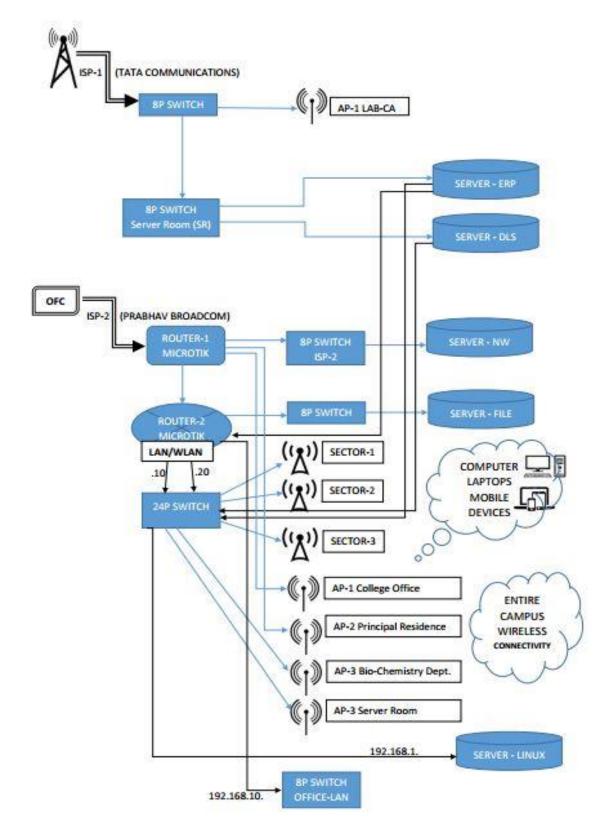
NETWORK AUDIT REPORT OF

St. Aloysius College (Autonomous), Jabalpur, M.P. www.staloysiuscollege.ac.in

Contend

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1. <u>Block Diagram of Network</u>



Sr.No	Scope of Work	Parameters	Remarks
1	– – IP schema	Type of Network	LAN, WLAN
2		Gateway ping status	GOOD 1 MS
3		Inter VLAN ping status	NA
4		dynamic/workgroup	WORKGROUP
5		Static / Dynamic	ВОТН
6		Type of Topology	STAR
7		Type of Network cable	CAT 5, CAT 6, OPTICAL FIBER
8		condition of network cable	GOOD
9	Cable testing	RJ45	YES WITH PATCH CORDS
		Crimping Method	MACHINE & MANUAL CRIMP WITH PATCH CORDS
10	Network Center/Hub	Condition of switch Rack/patch panel	GOOD BUT NEED TO CLEAN BLOWING SWICH
11		Type / Make of switch	D-LINK 1224T 24 PORT UNMANAGABLE SWITCH CISCO SMALL BUSINESS 24 PORT MANAGABLE SWITCH
12		Air-conditioning	YES
13		Moisture /Dust	DUST
14		Firewall	SOFTWARE
15		Anti-virus	QUICK HEAL SERVER EDN.
16	Server Monitoring	Internet	YES
17		Proxy server	NA
18		Windows update	YES
19		Auto update services	OFF
20		Source of Power	UPS
21	Power backup	Backup Duration	APPROX. 6 HRS. STANDBY
22		Generator Capacity	40 KV

2. Technical Summary/Finding of Server Room

3. Technical Summary/Finding of Network resources.

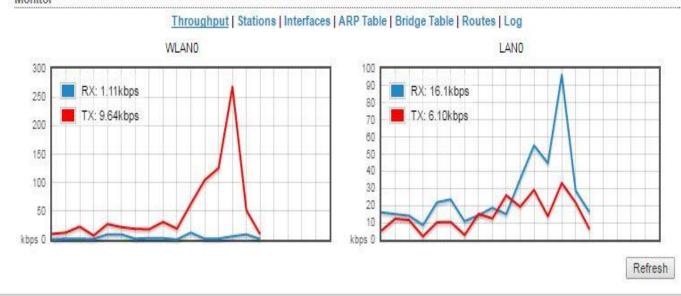
Sr.No	Scope of Work	Parameters	Remarks
	•	Separate Tower	Yes
	Antenna / Sectors	Make	UBNT
		Total No.	03
1		Degree	120
		Chanel Width	20MHz
		Frequency Range	2412 – 2462 MHz
		Pool-1 (Wi-Fi)	10.10.10.1- 10.10.10.255
		Pool-2 (Wi-Fi)	20.20.20.1 - 20.20.20.255
	LAN IP Series/Sub		192.168.10.1 -
2	netting/	Pool-3 (Wired)	192.168.10.255
		Availability	Yes
2	T 4 4	Туре	Leased line
3	Internet	Availability	Yes
		Vendor	Tata Communications
	(1:1)	Bandwidth	2 mbps
3.1	Leased Line – 1	Public IPs	10
		Availability	Yes
	Leased Line – 2 (OFC)	Vendor	Prabhav Broadcom
		Bandwidth	4 mbps
3.2		Public IPs	6
		Availability	Yes
	Access Point	Total No.	5
-		Make	D-Link
4		Availability	Yes
	Repeater/Signal Boaster	Availability	Yes
	Firewall	Mode	Software & Hardware
5		Content/Site	Yes
3		Filtering	
		Availability	Yes
6	Load Balancer	Mode	Software
U		MAC Filtering	Yes
		IP Restriction	Yes
7	Security	User Accounts	Yes
	-	Availability	Yes
		Mode	Centralized (through
8	Bandwidth	wioue	Software)
σ	Management	Tool	Winbox
		Device	Microtik Router

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4. Technical Summary Finding of Sectors.

Sector Details: Sector-1

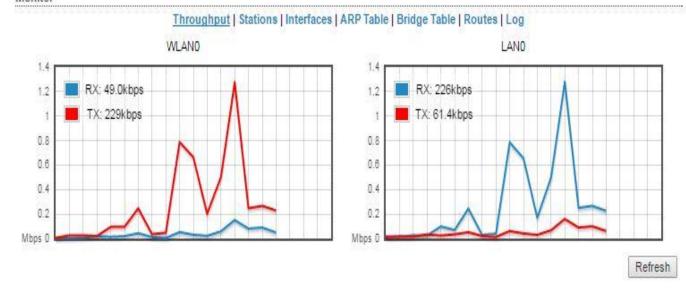
Device Model:	Rocket M2	AP MAC:	00:27:22:18:DC:D8
Device Name:	UBNT	Connections:	6
Network Mode:	Bridge	Noise Floor:	-92 dBm
Wireless Mode:	Access Point WDS	Transmit CCQ:	82.5 %
SSID:	SACJ1		-
Security:	WPA-AES	airMAX:	Disabled
Version:	v5.6.3 (XM)		
Uptime:	12 days 06:44:17		
Date:	2015-12-13 00:33:10		
Channel/Frequency:	8 / 2447 MHz		
Channel Width:	20 MHz		
Frequency Band:	2437 - 2457 MHz		
Distance:	0.6 miles (0.9 km)		
TX/RX Chains:	2X2		
TX Power:	26 dBm		
Antenna:	AM-V2G-Ti - 17 dBi		
WLAND MAC:	00:27:22:18:DC:D8		
LAND MAC:	00:27:22:19:DC:D8		
LANO:	100Mbps-Full		



Sector Details: Sector-2

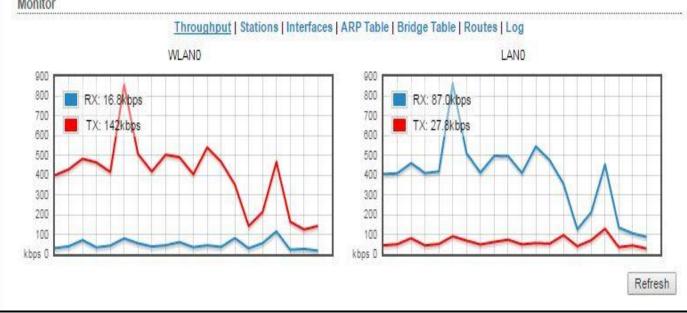
Device Model:	Rocket M2	AP MAC:	00:27:22:4E:55:90
Device Name:	UBNT	Connections:	16
Network Mode:	Bridge	Noise Floor:	-89 dBm
Wireless Mode:	Access Point WDS	Transmit CCQ:	76.4 %
SSID:	SACJ2	75 2024-01	
Security:	WPA2-AES	airMAX:	Disabled
Version:	v5.6.9 (XM)		
Uptime:	18 days 07:32:28		
Date:	2013-02-23 07:32:14		
Channel/Frequency:	4 / 2427 MHz		
Channel Width:	20 MHz		
Frequency Band:	2417 - 2437 MHz		
Distance:	1.0 miles (1.7 km)		
TX/RX Chains:	2X2		
TX Power:	28 dBm		
Antenna:	AM-V2G-Ti - 17 dBi		
WLAND MAC:	00:27:22:4E:55:90		
LANO MAC	00:27:22:4F:55:90		

Monitor



Sector Details: Sector-3

Device Model:	Rocket M2	AP MAC:	68:72:51:02:06:CE
Device Name:	Rocket M2	Connections:	39
Network Mode:	Bridge	Noise Floor:	-89 dBm
Wireless Mode:	Access Point WDS	Transmit CCQ:	97.8 %
SSID:	SACJ3		
Security:	WPA2-AES	airMAX:	Disabled
Version:	v5.6.9 (XM)		
Uptime:	04:47:46		
Date:	2015-02-18 04:47:32		
Channel/Frequency:	10 / 2457 MHz		
Channel Width:	20 MHz		
Frequency Band:	2447 - 2467 MHz		
Distance:	1.3 miles (2.1 km)		
TX/RX Chains:	2X2		
TX Power:	28 dBm		
Antenna:	AM-V2G-TI - 17 dBi		
WLAND MAC:	68:72:51:02:06:CE		
LAND MAC:	68:72:51:03:06:CE		
LANO:	100Mbps-Full		



Recommendation

- 1) Clean the switches with blower as dust is present in the switch
- 2) Need proper TAGGING of network cables

5. Ping Test Results

Ping to Gateway: 10.10.10.1

C:\WINDOWS\system32\ping.exe

38.11 1.03				
		.10.10.1 with		
Reply	from	10.10.10.1:		time=129ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=92ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=234ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=297ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=328ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=829ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=335ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=27ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=12ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=28ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=5ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=30ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=127ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=2ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=7ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=28ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=1ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=506ms TTL=64
Reply	from	10.10.10.1:	bytes=32	time=804ms TTL=64

Ping to Server(s):

ISP-1 Gateway

C:\WINDOWS\system32\ping.exe

```
Pinging 10.10.10.1 with 32 bytes of data:
Reply from 10.10.10.1: bytes=32 time=129ms TTL=64
Reply from 10.10.10.1: bytes=32 time=92ms TTL=64
Reply from 10.10.10.1: bytes=32 time=234ms TTL=64
Reply from 10.10.10.1: bytes=32 time=297ms TTL=64
Reply from 10.10.10.1: bytes=32 time=328ms TTL=64
Reply from 10.10.10.1: bytes=32 time=829ms TTL=64
Reply from 10.10.10.1: bytes=32 time=335ms TTL=64
Reply from 10.10.10.1: bytes=32 time=27ms TTL=64
Reply from 10.10.10.1: bytes=32 time=12ms TTL=64
Reply from 10.10.10.1: bytes=32 time=28ms TTL=64
Reply from 10.10.10.1: bytes=32 time=5ms TTL=64
Reply from 10.10.10.1: bytes=32 time=30ms TTL=64
Reply from 10.10.10.1: bytes=32 time=127ms TTL=64
Reply from 10.10.10.1: bytes=32 time=2ms TTL=64
Reply from 10.10.10.1: bytes=32 time=7ms TTL=64
Reply from 10.10.10.1: bytes=32 time=28ms TTL=64
Reply from 10.10.10.1: bytes=32 time=1ms TTL=64
Reply from 10.10.10.1: bytes=32 time=506ms TTL=64
Reply from 10.10.10.1: bytes=32 time=804ms TTL=64
```

Ping to Server(s):

ISP-2 Gateway

C:\WINDOWS\system32\ping.exe

Pingir	ng 110	0.172.189.97 with	n 32 bytes	s of data:
Reply	from	110.172.189.97:	bytes=32	time=2ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=1ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=7ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=2ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=1ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=10ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=3ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=20ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=11ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=1ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=2ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=5ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=3ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=3ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=1ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=3ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=1ms TTL=63
Reply	from	110.172.189.97:	bytes=32	time=2ms TTL=63

Ping Findings:

<u>S.N.</u>	Location	Full Load Ping	Without Load Ping	<u>Remarks</u>
<u>1</u>	<u>LAN- 1</u> 10.10.10.1255	<u>11,22,113 MS</u> (variable)	<u>1 MS (Constant)</u>	<u>Ok</u>
2	<u>LAN- 2</u> 20.20.20.1255	<u>101,12,23 MS</u> (variable)	<u>1 MS (Constant)</u>	<u>OK</u>
<u>3</u>	<u>LAN- 3</u> 192.168.10.1255	<u>10,102,43 MS</u> (variable)	<u>1 MS (Constant)</u>	<u>OK</u>

Recommendations

- Dusting is necessary
- Need to do proper tagging
- Switch rack should be provided wherever necessary.

Pictures of Labs



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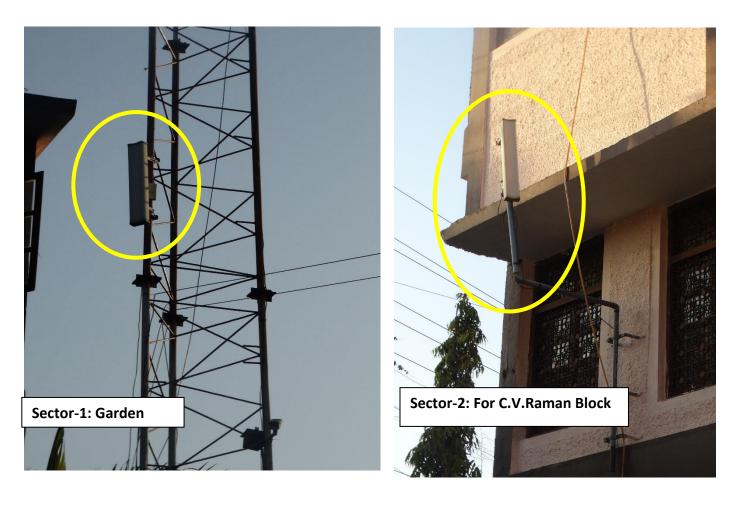




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Pictures of Sectors







Pictures of Access Point, Repeater, Switches with Rack.



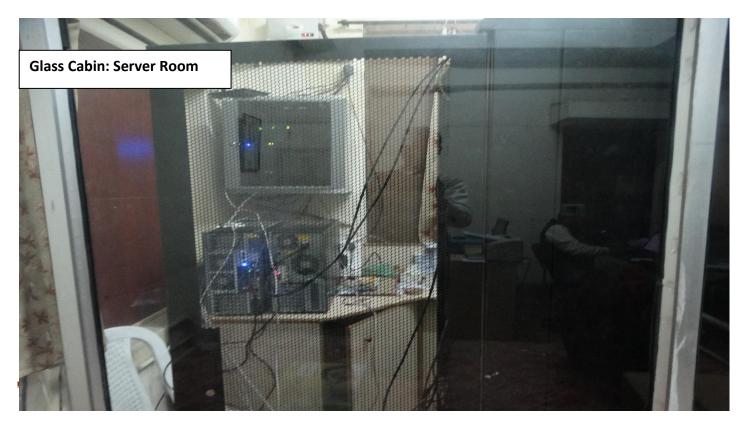


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Pictures of Server, Rack and KVM Switch















Recommendations

- Dusting is necessary
- Need to do proper tagging
- Switch rack should be provided wherever necessary.