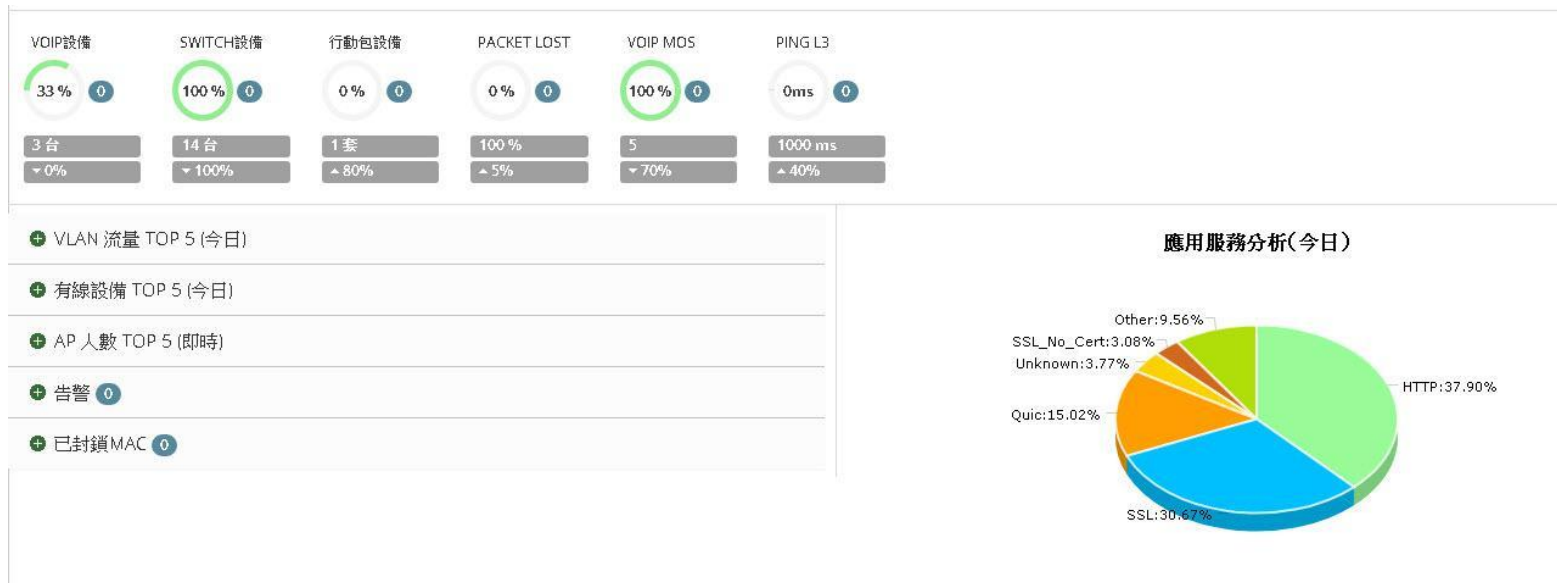


校園網路管理分享

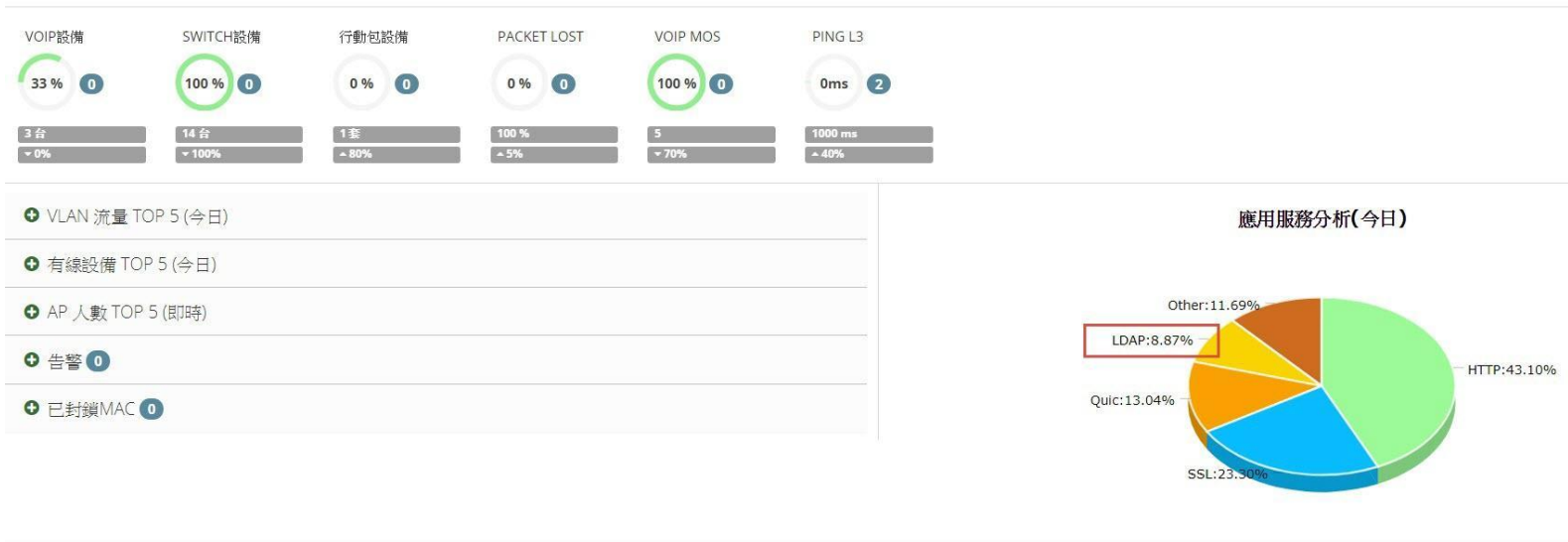
SNM 新北市校園網路管理平台-綜觀1



SNM 新北市校園網路管理平台-綜觀2



SNM 新北市校園網路管理平台-綜觀2



SNM 新北市校園網路管理平台-報表



 Unit Traffic

開始：2017-10-15 - 結束：2017-10-15 詳細資料： OFF 

2017-10-15 ALL





10   

單位名稱	日期	Proto	IN	OUT	TOTAL
仁愛國小	2017-10-15	all	25.17 GB	40.69 GB	65.87 GB

Showing 1 to 1 of 1 entries

Previous

1

Next

SNM 新北市校園網路管理平台-報表Top IP

TOP IP				
開始：2017-10-15 - 結束：2017-10-15 TOP：ALL 確認				
2017-10-15 ALL				
10 Print				
TOP ▲	IP	IN	OUT	TOTAL
1	163.20.63.6	625.64 MB	21.67 GB	22.28 GB
2	2001:288:22b9:36:d984:8632:b050:e075	13.96 GB	466.43 MB	14.41 GB
3	163.20.63.60	61.88 MB	6.61 GB	6.67 GB
4	163.20.63.18	311.52 MB	4.67 GB	4.97 GB
5	163.20.63.142	3.4 GB	47.5 MB	3.45 GB
6	163.20.63.2	71.91 MB	2.69 GB	2.76 GB

SNM 新北市校園網路管理平台-報表Top Proto

TOP Proto

開始: 2017-10-15 - 結束: 2017-10-15 TOP: ALL 確認

2017-10-15 ALL

TOP ▲	Proto	IN	OUT	TOTAL
1	LDAP	612.2 MB	19.66 GB	20.26 GB
2	HTTP	4.48 GB	11.28 GB	15.75 GB
3	Quic	14.87 GB	609.25 MB	15.47 GB
4	Unknown	116.95 MB	7.02 GB	7.14 GB
5	SSL_No_Cert	2.22 GB	79.66 MB	2.3 GB
6	RDP	637.61 MB	1.11 GB	1.73 GB

SNM 新北市校園網路管理平台-用戶

線上設備

全部設備

☰ IP

更新MAC

🔍 163.20.63.6

10

⚙️

Print

IP	MAC	OS	即時流量(RX)	即時流量(TX)	連線數	last Seen	action
163.20.63.6		Windows 7	133.09 KB	606.29 KB	32	21:24:59	
163.20.63.60			88 B	0 B	1	21:25:57	
163.20.63.66			80 B	0 B	1	21:25:38	
163.20.63.67			160 B	0 B	2	21:25:48	
163.20.63.68		Windows 7	6.32 KB	10.73 KB	3	21:26:16	
163.20.63.69			80 B	0 B	1	21:25:34	

Showing 1 to 6 of 6 entries (filtered from 114 total entries)

Previous

1

Next

SNM 新北市校園網路管理平台-用戶MAC

線上設備

全部設備

IP

更新MAC

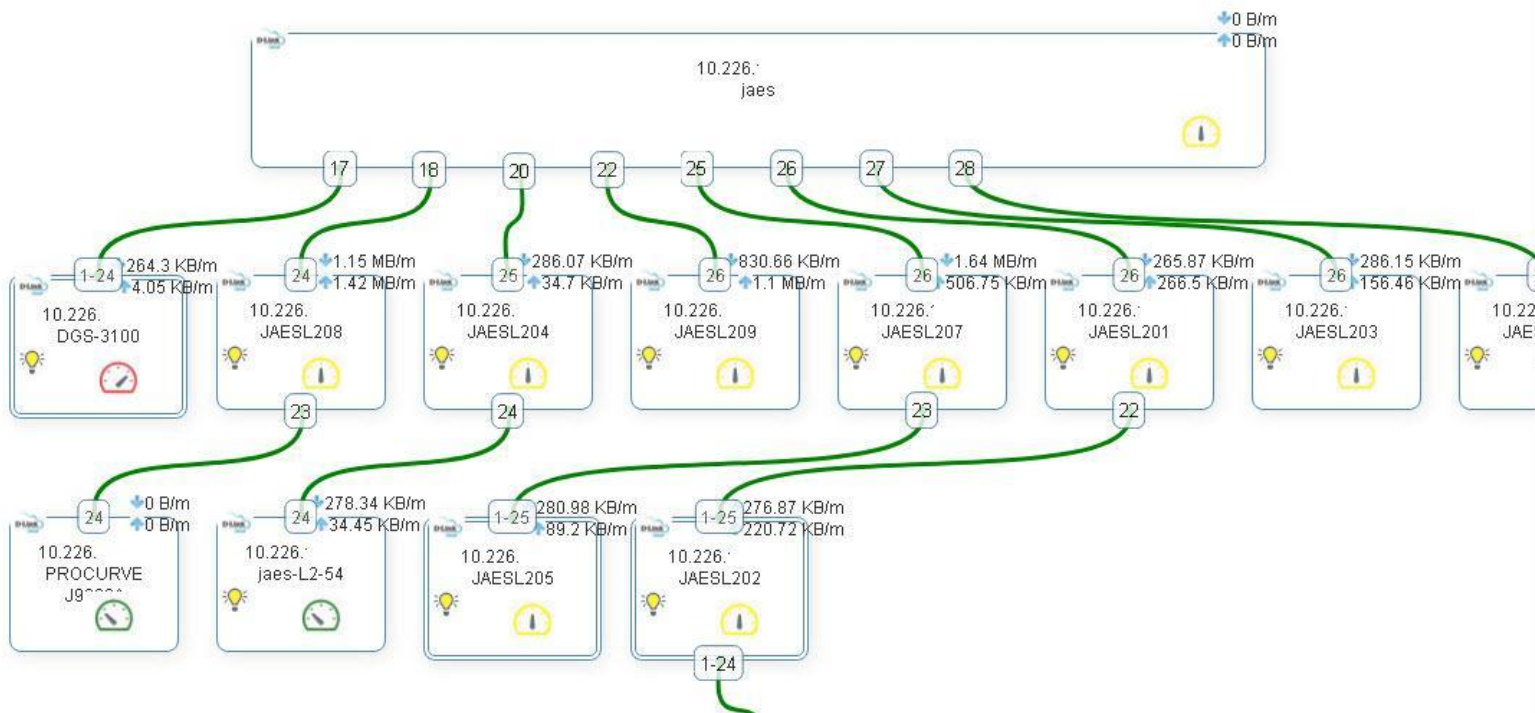
Q

10

Print

IP	MAC	OS	即時流量(RX)	即時流量(TX)	連線數	last Seen	action
10.226.183.5	54b80ac9cb60		152 B	152 B	1	21:27:37	封鎖
10.226.183.7	908d7842a560		406 B	4.69 KB	1	21:16:12	封鎖
10.231.183.121	40167eba743c	Windows 7	270 B	348 B	2	21:27:53	封鎖
10.231.183.126	0025118b8795		2.04 KB	1.64 KB	3	21:28:35	封鎖
10.231.183.196	1078d294508e		280 B	996 B	2	21:28:01	封鎖
10.231.183.32	14cc2007fdaf	Windows 10	128 B	1.04 KB	1	21:27:47	封鎖

SNM 有線設備-網路架構圖



登入L3 switch 找出mac的連線埠

帳號: 校務行政@ntpc.edu.tw

密碼: 校務行政密碼

需要進行驗證

http://10.226.
你與這個網站之間的連線不是私人連線

使用者名稱

密碼

從L3 switch 找出mac(00155db73f38)的連線埠-arp

The screenshot shows the D-Link web management interface for a DGS-3620-28TC switch. The left sidebar shows the navigation tree with 'L2 Features' and 'FDB' highlighted. The main content area displays the 'ARP & FDB Table' configuration page. The 'Port' dropdown is set to '01'. The 'MAC Address' field contains '00-15-5d-b7-3f-38'. The 'IP Address' field is empty. The 'Find by Port', 'Find by MAC', and 'Find by IP Address' buttons are visible. The 'View All Entries' button is also present. The table shows one entry for the MAC address 00-15-5d-b7-3f-38, which is associated with the 'lan' interface and port 7. The 'Port' column is highlighted with a red box.

ARP & FDB Table

Port: 01

MAC Address: 00-15-5d-b7-3f-38

IP Address:

Find by Port

Find by MAC

Find by IP Address

View All Entries

00-15-5d-b7-3f-38

Total Entries: 1

Interface	IP Address	MAC Address	VLAN Name	Port
lan	163.20.63.6	00-15-5D-B7-3F-38	lan	7

Add to IP MAC Port Binding Table

從L3 switch 找出mac的連線埠-mac table

The screenshot displays the D-Link web management interface for a DGS-3620-28TC switch. The top navigation bar includes the D-Link logo, a status bar with system up time (62 Days 04:12:09), and a login status (User, shinten@ntpc.edu). The left sidebar shows a tree view of configuration options, with 'L2 Features' and 'FDB' highlighted. The main content area is titled 'MAC Address Table' and contains several search filters: Port (01), VLAN Name, VID List, MAC Address (00-00-00-00-00-00), and Security. Below these filters, there are buttons for 'Find', 'Clear Dynamic Entries', 'View All Entries', and 'Clear All Entries'. A table titled 'Total Entries: 1' lists the MAC address table entries. The table has columns for VID, VLAN Name, MAC Address, Port, Type, and Status. The entry shown is VID 5, VLAN Name lan, MAC Address 00-15-5D-B7-3F-38, Port 7, Type Dynamic, and Status Forward. There is a button 'Add to Static MAC table' next to the entry. The MAC address 00-15-5d-b7-3f-38 is highlighted in blue text above the table.

MAC Address Table

Port: 01 Find Clear Dynamic Entries

VLAN Name Find Clear Dynamic Entries

VID List Find

MAC Address: 00-00-00-00-00-00 Find

Security Find

View All Entries Clear All Entries

Total Entries: 1

VID	VLAN Name	MAC Address	Port	Type	Status
5	lan	00-15-5D-B7-3F-38	7	Dynamic	Forward

Add to Static MAC table

1/1 1 Go

從L3 switch 找出mac的連線埠-1078d27be850

MAC Address Table

Port: 07 Find Clear Dynamic Entries

VLAN Name: Find Clear Dynamic Entries

VID List: Find

MAC Address: 00-00-00-00-00-00 Find

Security: ☐ Find

00-15-5d-b7-3f-38 View All Entries Clear All Entries

Total Entries: 14

VID	VLAN Name	MAC Address	Port	Type	Status	
5	lan	00-11-25-AC-7C-01	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-15-17-00-FE-DA	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-15-5D-B7-3F-24	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-15-5D-B7-3F-38	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-19-DB-72-25-F6	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-24-8C-FE-77-9A	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-25-90-1E-E7-A5	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-30-48-34-3D-0C	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-90-FB-05-12-A8	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-E0-81-B7-48-25	7	Dynamic	Forward	Add to Static MAC table
5	lan	00-E0-81-B7-48-27	7	Dynamic	Forward	Add to Static MAC table

12 1 2 > >> Go

從L3 switch 找出mac的連線埠

已經找到了，他在哪？

從L3 switch 找出mac的連線埠-1078d27be850

The screenshot displays the configuration interface of a network switch, specifically the 'MAC Address Table' section. The left sidebar shows a tree view of configuration options, with 'MAC Address Table' highlighted under 'FDB' settings. The main panel contains search filters for Port, VLAN Name, VID List, and MAC Address, each with a 'Find' button. A 'Security' checkbox is also present. Below the filters, there are buttons for 'View All Entries' and 'Clear All Entries'. A table titled 'Total Entries: 1' lists the MAC address 10-78-D2-7B-E8-50 on port 25 of VLAN 5. The MAC and Port fields in the table are highlighted with a red box. At the bottom right, there is a button to 'Add to Static MAC table' and a pagination control showing '1/1'.

MAC Address Table

Port: 01 Find Clear Dynamic Entries

VLAN Name: Find Clear Dynamic Entries

VID List: Find

MAC Address: 00-00-00-00-00-00 Find

Security: ☐ Find

View All Entries Clear All Entries

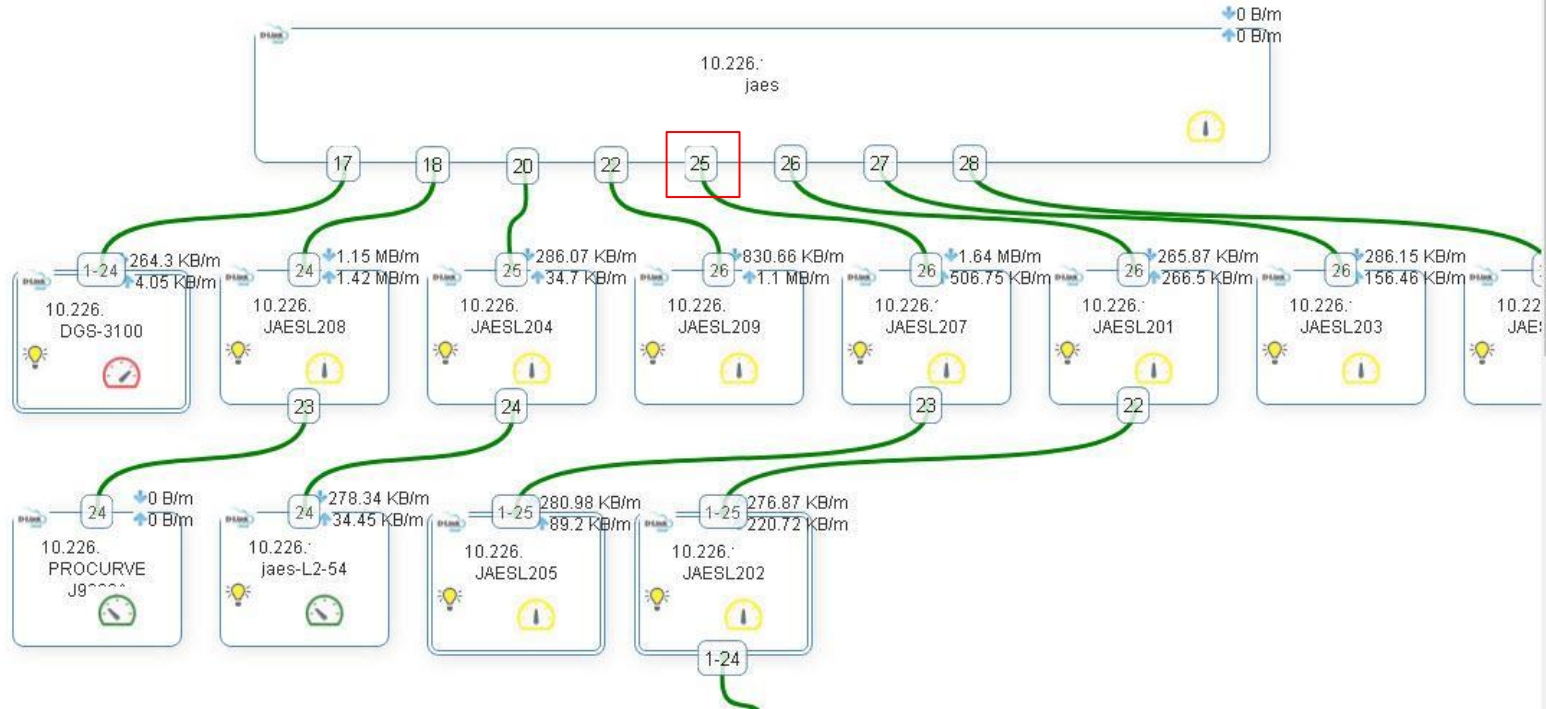
Total Entries: 1

VID	VLAN Name	MAC Address	Port	Type	Status
5	Ian	10-78-D2-7B-E8-50	25	Dynamic	Forward

Add to Static MAC table

1/1 1 Go

從L3 switch 找出mac的連線埠-1078d27be850



從L2 switch 找出mac的連線埠-1078d27be850

Connect to 10.226.111.2



User Name

Password

Language

Login Reset

從L2 switch 找出mac的連線埠-1078d27be850

The screenshot shows the D-Link web management interface for a DGS-1510-28XMP switch. The left sidebar contains a tree view with 'L2 Features' and 'FDB' highlighted. The main content area is titled 'MAC位址表' (MAC Address Table). It includes search filters for '埠' (Port) set to 'eth1/0/1', 'VID (1-4094)', and 'MAC位址' set to '10-78-d2-7b-e8-50'. Below the filters, a table displays the search results. The table has columns for VID, MAC位址, 類型 (Type), and 埠 (Port). One result is shown: VID 5, MAC位址 10-78-D2-7B-E8-50, 類型 動態 (Dynamic), and 埠 eth1/0/26. The '埠' column in the table is highlighted with a red box. At the bottom right, the text '外埠:找錯' (Wrong port: search error) is displayed.

MAC位址表

埠: eth1/0/1
VID (1-4094):
MAC位址: 10-78-d2-7b-e8-50

清除動態埠 搜尋
清除動態VLAN 搜尋
清除動態MAC 搜尋

總數: 1 全部清除 查看全部

VID	MAC位址	類型	埠
5	10-78-D2-7B-E8-50	動態	eth1/0/26

1/1 < < 1 > > Go

外埠:找錯

從L2 switch 找出mac的連線埠-1078d27be850

The screenshot shows the D-Link web management interface for a DGS-1510-28XMP switch. The top header includes the D-Link logo and a navigation bar with options like '儲存', '工具', '精靈', '在線幫助', and '繁體中文'. The left sidebar shows a tree view of the switch's configuration options, with 'L2 Features' and 'FDB' highlighted. The main content area is titled 'MAC位址表' (MAC Address Table). It contains search filters for '埠' (Port) set to 'eth1/0/1', 'VID' set to '1-4094', and 'MAC位址' set to '10-78-d2-7b-e8-50'. Below the filters, there are buttons for '清除動態埠', '清除動態VLAN', and '清除動態MAC'. A table displays the results, showing one entry with VID 5, MAC address 10-78-D2-7B-E8-50, and type 動態. The '埠' column is highlighted with a red box, showing 'eth1/0/4'. At the bottom, there are pagination controls showing '1/1' and a 'Go' button.

D-Link Building Networks for People

DGS-1510-28XMP

儲存 工具 精靈 在線幫助 繁體中文 登入用戶: User, shinten@n... 登出

Fuzzy Search

DGS-1510-28XMP

- 系統
- 管理
- L2 Features
 - FDB
 - 靜態FDB
 - MAC位址表設置
 - MAC位址表
 - MAC通知
 - VLAN
 - STP
 - ERPS (G.8032)
 - 迴圈偵測
 - 連結綜合
 - L2群播控制
 - LLDP
- L3 Features
- QoS

MAC位址表

埠: eth1/0/1

VID (1-4094):

MAC位址: 10-78-d2-7b-e8-50

清除動態埠 搜尋

清除動態VLAN 搜尋

清除動態MAC 搜尋

總數: 1

全部清除 查看全部

VID	MAC位址	類型	埠
5	10-78-D2-7B-E8-50	動態	eth1/0/4

1/1 < < 1 > > Go

找出連線埠的位置表

+ Add new record ✓ Save changes ⊗ Cancel changes									
	教室名稱	教室編號	場地分類	網點編號 ▲	使用人	位置	更新日期	功能	
1...	AP-34D3F-324f	AP-324f	AP網點	006:1:22	資訊中心		2015-08-31	× D...	
1...	彩虹屋	No.104	普通教室	007:1:			2015-08-31	× D...	
1...	警衛室	No.100	專用場地	007:1:01			2016-12-12	× D...	
1...	101-02總務處	007-1-02	其他	007:1:02			2017-09-18	× D...	
1...	101-04總務處	101-04	其他	007:1:04			2017-09-13	× D...	
1...	人事室	No.202	行政處室	007:1:05	人事主任-楊嫻玫		2017-09-06	× D...	
1...	101-06總務處	101-06	其他	007:1:06			2017-09-13	× D...	

找出連線埠的位置表

教室編號

posNo

網點編號

007:1:04

查詢

Update All

+ Add new record

✓ Save changes

⊗ Cancel changes

	教室名稱	教室編號	場地分類	網點編號 ▲	使用人	位置	更新日期	功能	
1...	101-04總務處	101-04	其他	007:1:04			2017-09-13	× D...	▲

◀

▶

Page 18 of 1

▶

◀

10

/每頁

顯示 171-1 / 1筆資料

⊗

007:1:04

✓ Save changes		⊗ Cancel changes							
	使用人	設備識別碼	IpAddress	設備名稱	MacAddress	L3 d...	更新日期	功能	
1	文書組長	JAES-832	163.20.63.68	L480-8321	10-78-D2-7B-E8-50	1-25	2017-10-12	× ...	▲
2	總務處	AP-830	163.20.63.134	AP	74-D0-2B-D3-E2-D1	1-25	2017-10-12	× ...	
3	總務處	Acer-L4630G	163.20.63.64	Acer-L4630G	B8-AE-ED-AB-4F-7E	1-25-23	2017-10-12	× ...	

L3 VLAN

D-Link
Building Networks for People

DGS-3620-28TC

System Up Time: 62 Days 06:12:08 Logged in as User, shinten@ntpc.edu. - 163.20.63.11 Logout

802.1Q VLAN Settings

VLAN List | Add/Edit VLAN | Find VLAN | VLAN Batch Settings | Total Entries: 11

MD	VLAN Name	Advertisement	Tagged Ports	Untagged Ports	Forbidden Ports	Edit	Delete
1	default	Enabled		17-22,25-28			
2	wan	Disabled		1-2,23-24		Edit	Delete
5	lan	Disabled	17-22,25-28	5-8		Edit	Delete
8	dsa_wan	Disabled		3		Edit	Delete
10	Intra-1	Disabled	6,17-22,25-28	9-12		Edit	Delete
20	Intra-2	Disabled	6,17-22,25-28	13-16		Edit	Delete
25	voip	Disabled	6,17-20,25-28			Edit	Delete
30	wlan	Disabled	6,17-22,25-28	4		Edit	Delete
35	wpa2	Disabled	5-28			Edit	Delete
36	mac_auth	Disabled	6,17-22,25-28			Edit	Delete

1/2 1 2 > >> Go

L2 VLAN



網段有人亂發IP，處理方式

使用自架AP，外線(wan port) 插在內網上(lan port)，其DHCP功能，1
IP(192.168.x.x)而無法上網

- 1.取得ap gateway ip, ping gateway ip
- 2.arp -a 取得gateway mac address
- 3.改常正常的同網段IP，以前述方式取得AP的連線port，
修正AP的接線方式



```
C:\Windows\system32\cmd.exe
Microsoft Windows [版本 10.0.15063]
(c) 2017 Microsoft Corporation. 著作權所有，並保留一切權利。
C:\Users\user>arp -a

介面: 192.168.1.119 --- 0x11
網絡網絡地址 實體位址 類型
192.168.1.1 14-da-e9-81-ce-34 動態
192.168.1.255 ff-ff-ff-ff-ff-ff 靜態
224.0.0.22 01-00-5e-00-00-16 靜態
224.0.0.251 01-00-5e-00-00-fb 靜態
224.0.0.252 01-00-5e-00-00-fc 靜態
239.255.255.250 01-00-5e-7f-ff-fa 靜態
255.255.255.255 ff-ff-ff-ff-ff-ff 靜態
```

查線:留下文書資料, 列入交接

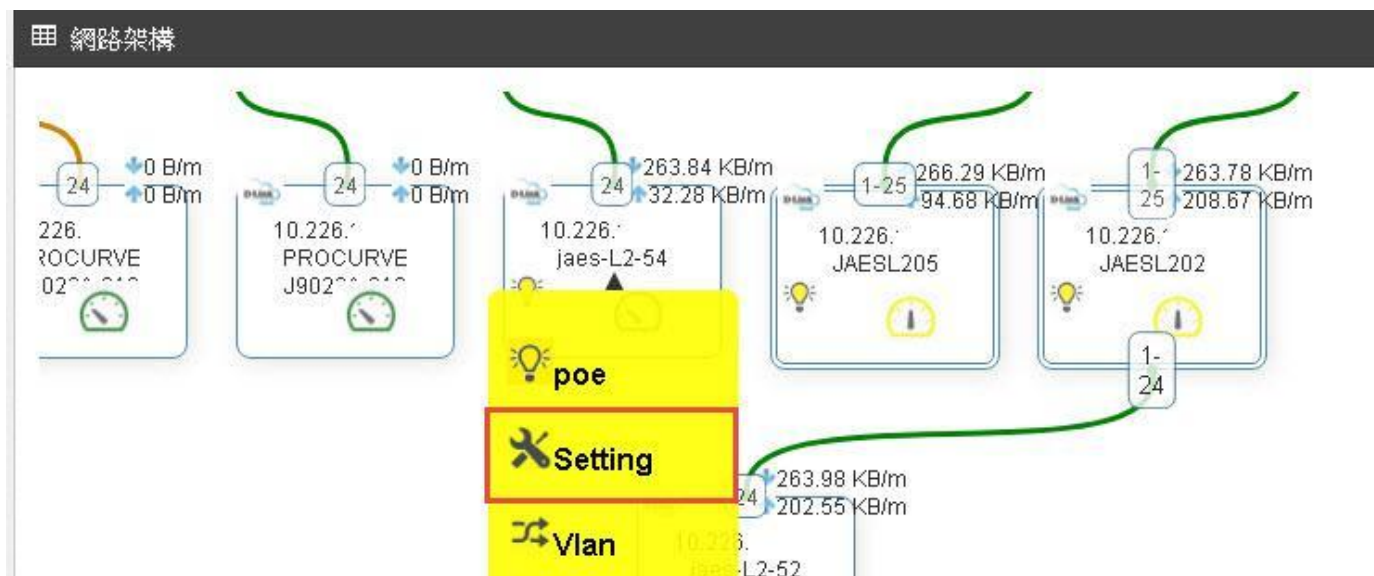
+ Add new record ✓ Save changes ⊗ Cancel changes									
	教室名稱	教室編號	場地分類	網點編號 ▲	使用人	位置	更新日期	功能	
1...	AP-34D3F-324f	AP-324f	AP網點	006:1:22	資訊中心		2015-08-31	× D...	
1...	彩虹屋	No.104	普通教室	007:1:			2015-08-31	× D...	
1...	警衛室	No.100	專用場地	007:1:01			2016-12-12	× D...	
1...	101-02總務處	007-1-02	其他	007:1:02			2017-09-18	× D...	
1...	101-04總務處	101-04	其他	007:1:04			2017-09-13	× D...	
1...	人事室	No.202	行政處室	007:1:05	人事主任-楊嫻玫		2017-09-06	× D...	
1...	101-06總務處	101-06	其他	007:1:06			2017-09-13	× D...	

查線方式-1

- 1.利用無線網路，拔除裝置的網路路，觀察2交換器的燈號變化，適用連到網管型交換器
- 2.利用SNMP的斷線功能，等待回報
- 3.利用查線器或測線器



查線-2, 使用SNM



查線-2, 使用SNM

10.226.1



[jaes-L2-52][DGS-3100-24P...

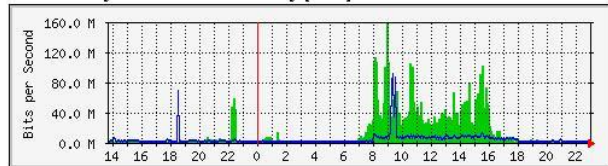
PORT

主機

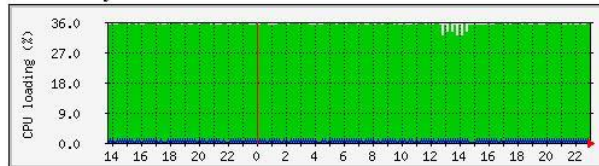
Port	啟用	POE 供電	狀態	Reset
1	ON	ON		Reset
2	ON	ON		Reset
3	ON	ON		Reset
4	ON	ON		Reset
5	ON	ON		Reset

MRTG-1

Traffic Analysis for Public -- Getway [1-24]

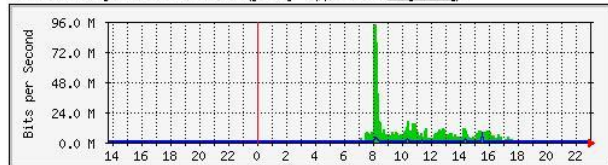


Traffic Analysis for CPU

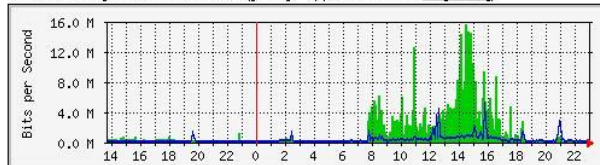


Switch

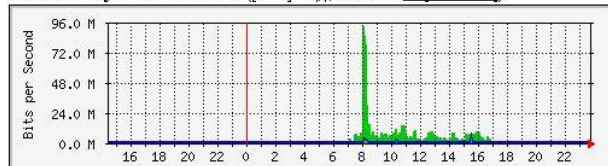
Traffic Analysis for L2 -- 001 ([103]一棟3F-UP L3[1-26])



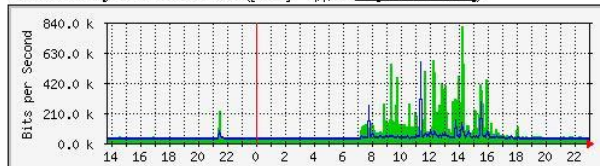
Traffic Analysis for L2 -- 009 ([103]一棟3F-DOWN L3[1-22])



Traffic Analysis for L2 -- 002 ([203]二棟3F Stack L3[1-26-22])



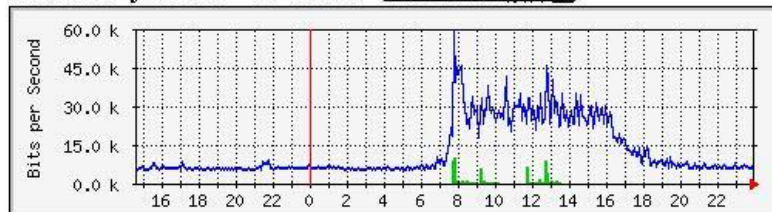
Traffic Analysis for L2 -- 052 ([203]二棟3F L3[1-26-22-24])



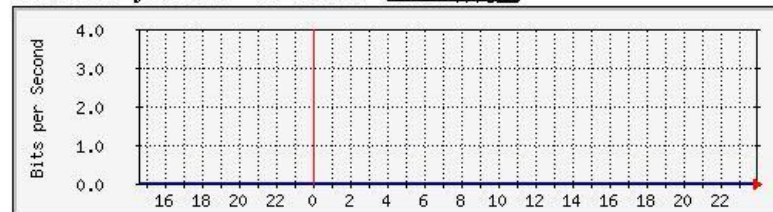
MRTG-2

MRTG Index Page 2D3F 10.226.

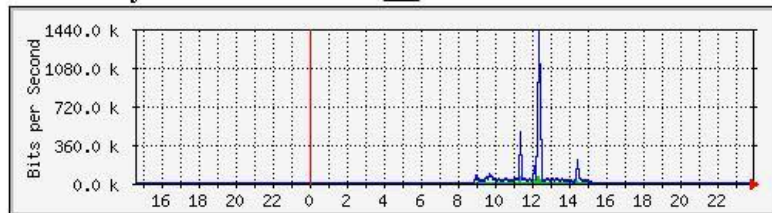
Traffic Analysis for 1 -- JAESL202 - 0402 2D4F教室



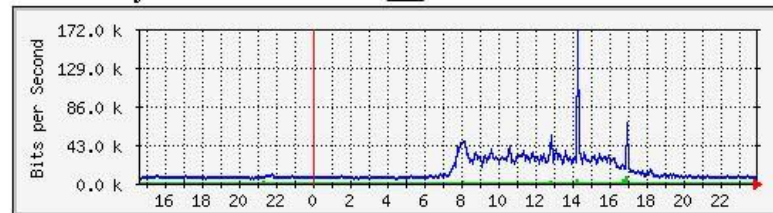
Traffic Analysis for 2 -- JAESL202 - R402 哺乳室



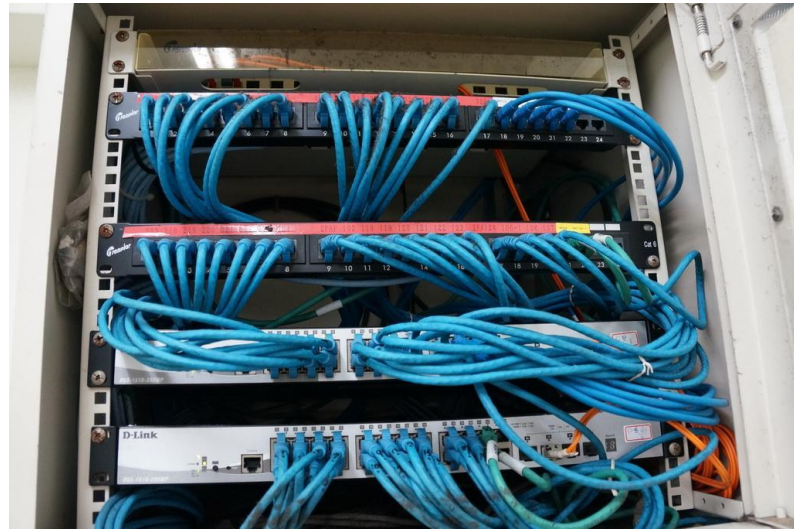
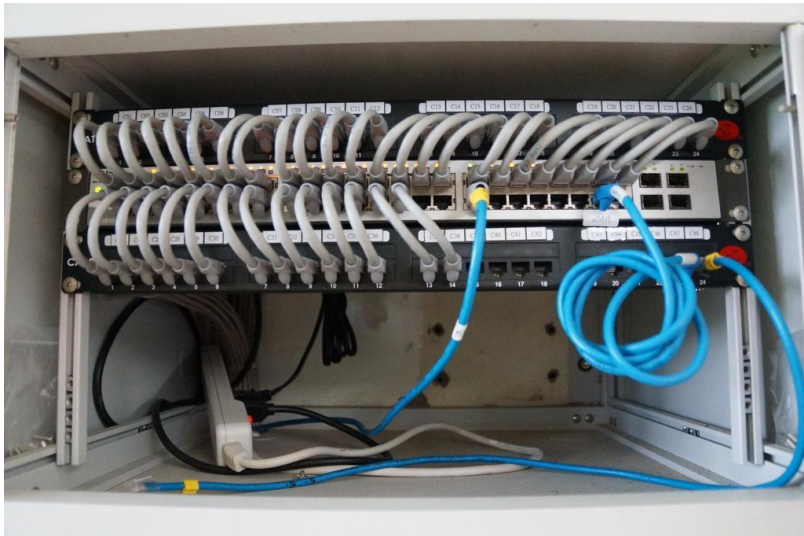
Traffic Analysis for 3 -- JAESL202 - 411



Traffic Analysis for 4 -- JAESL202 - 412



佈線-1



佈線-2, 有很大的改善空間

