



CyberExpert “網路管理專家”

用戶使用指南

Revision 1.0.2

VIA TECHNOLOGIES, INC.

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Revision History

Release	Date	Revision	Initials
1.0.0	2014-06-13	For initial draft release.	HarryChiang
	2014-12-18	Update AC/AP function	HarryChiang
	2014-12-19	Update PoE schedule function	HarryChiang
1.0.2	2015-01-16	Update topology function	HarryChiang

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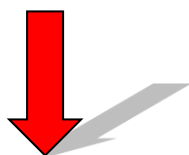
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1. “網路管理專家”網頁啟動

步驟 1. 先把“網路管理專家”電源啟動後，“網路管理專家”程式會自動啟動。在任一電腦上執行網路瀏覽器(建議使用 Google Chrome)並輸入伺服器 IP 網址。



進入“網路管理專家”主畫面



Cyber Expert

Please use your account to login.

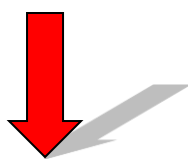
A login form with a light purple background. It contains two input fields: 'Username' and 'Password', both with red dashed borders. Below the fields is a blue button with the text 'sign in' in white, also with a red dashed border. At the bottom of the form is a link that says 'Forget password' in purple, underlined.

步驟 2. 分別在 UserName 及 Password

都輸入 admin，再將滑鼠點選 sign in 進入

“網路管理專家”初始網頁畫面!

滑鼠點選 Forget password 是忘記密碼時使用。



Device

Collect devices for management and show basic information and status.

Topology

Provide a tree structure to show all managed devices by their logical relationship, and also provide a function to show trace path between any two peers.

WLC

AC-

AC information and Status.

AP-

AP list, real-time chart, history chart and log.

Log

System wide log viewer.

Account

View and edit user account data.

Setting

Modify system settings.

About

Show NMS version and company logo, address, contact person, e-mail and telephone.

2. “網路管理專家”帳號設定

2-1. Account

滑鼠點選 **Account**，是用來設定新增及編輯使用者帳號，第一次用 Admin 登入時，請輸入 Email 及 Phone Number。



User Information

Username: admin
Password: ***** [Edit](#)
Name: Administrator [Edit](#)
Email: [Edit](#)
Phone Number: [Edit](#)

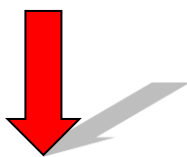
第一次用 Admin 登入時，請輸入 Email 及 Phone Number。

[Create NEW Account](#)

Account List

Username	Level	Name	Email	Phone number	Login time	Logout time
admin	admin	Administrator			2014-12-04 18:00:34.583	null

如需設定新增使用者帳號，滑鼠點選 **Create NEW Account**



User Information

Username:

Password:

Password again:

Level:

Name:

Email:

Phone Number:

滑鼠點選 Check，是用
來檢查使用者帳號是否重
複。輸入完成後按 **Create
Account** 產生新帳號。

滑鼠點選 Password 旁的 Edit，是用來重新設定使用者密碼

Password: *****



User Information

Username:

Password:

Input NEW Password:

Input NEW Password again:

先輸入舊的使用者密
碼，再輸入新的使用
者密碼兩次，確定後
再按 **OK**。

滑鼠點選 Name 旁的 Edit，是用來重新設定使用者姓名

Name: Administrator [Edit](#)



User Information

Username: admin

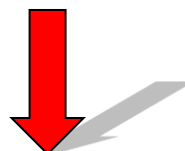
Name: Administrator

Cancel Ok

先輸入新的使用者姓名，確定後再按 OK。

滑鼠點選 EMail 旁的 Edit，是用來重新設定使用者電子郵件

Email: vianetworking1@gmail.com [Edit](#)



User Information

Username: admin

Email:

Cancel

Ok

先輸入新的使用者電子郵件，確定後再按 OK。

滑鼠點 Phone Number 旁的 Edit，是用來重新設定使用者電子郵件

Phone Number: 0900000000

Edit

User Information

Username: admin

Phone Number:

Cancel

Ok

先輸入新的使用者手機號碼，確定後再按 OK。

2-2. Settings

滑鼠點選 **Settings**，是用來設定電子郵件(E-Mail) 帳號、簡訊(SMS)及其他相關設定。



滑鼠點選 **Settings**，可用來設定及改變即時流量圖更新時間(Default Update Interval for Real-time Chart) 及 Remote web port setting of device，設定完成後，滑鼠點選 **Apply**。

Value Setting

Default Update Interval for

30sec ▼

Real-time Chart:

Remote web port setting of

8081

device:

Apply

滑鼠點選 **Settings**，可用來設定及改變電子郵件寄件者，及相關的主旨內容，設定完成後，滑鼠點選 **Submit**。

Notify Mail

Sender:

VIA CyberExpert NOTICE

Subject:

莊敬(VNT5601) CyberExpert E-Mail Message

Submit

滑鼠點選 **Settings**，可用來設定及改變網路簡訊使用者帳號，及其密碼(目前是使用三竹企業客戶簡訊)，設定完成後，滑鼠點選 **Submit**。

Notify SMS

Username:	<input type="text" value="86870786"/>
Password:	<input type="password" value="....."/>
<input type="button" value="Submit"/>	

滑鼠點選 **Settings**，可用來設定及改變異常(Alarm)通知對象，可選擇發送對象的電子郵件(Email)或是簡訊(SMS)，及選擇(Select)欲發送對象，設定完成後，滑鼠點選 **Submit**。

Alarm Setting

Alarm Name	Email	SMS	
CyberExpert Start Up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
CyberExpert Shut Down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Device Disconnect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Monitored Port Link Up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Monitored Port Link Down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Critical Port Link Up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Critical Port Link Down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
AP Leave	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
AP Join	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>
Web Update	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Select"/>

Email	SMS
<input checked="" type="checkbox"/> Administrator	<input type="checkbox"/> Administrator
<input type="checkbox"/> RichardTai	<input type="checkbox"/> RichardTai
<input checked="" type="checkbox"/> HarryChiang	<input type="checkbox"/> HarryChiang
<input type="checkbox"/> KaiChun	<input type="checkbox"/> KaiChun
<input type="checkbox"/> JamesHung	<input type="checkbox"/> JamesHung
<input type="checkbox"/> User	<input type="checkbox"/> User

滑鼠點選 **Settings**，也可用來設定及改變主機網路介面設定(Host Interface Configuration)。

Host Network Settings

Interface Configuration :

[Setting](#) (change page)

Routing Table Configuration :

[Setting](#) (change page)

滑鼠點選 **Settings**，也可用來設定乙太網路供電排程(PoE Daily Schedule)，可指定網口電力供應時段，設定完成後，滑鼠點選 **Apply**。

PoE Daily Schedule

Schedule name:	<input type="text" value="schedule3"/>
Start:	<input type="text" value="06"/> : <input type="text" value="10"/>
End:	<input type="text" value="23"/> : <input type="text" value="10"/>
<input type="button" value="Apply"/>	

PoE Schedule List

Delete	Time Schedule Name	Start	End
<input type="checkbox"/>	schedule1	06:00	23:00
<input type="checkbox"/>	schedule2	06:05	23:05
<input type="checkbox"/>	schedule3	06:10	23:10
<input type="button" value="Delete"/>			

滑鼠點選 **Settings**，可提供關於“網路管理專家”**License** 設定，先設定選擇檔案，再按 **Upload** 上傳，設定完成後，顯示“網路管理專家” **Serial Number**、目前網路設備個數，可允許網路設備個數。

License information

NMS Serial Number : 83NOC444T

Current Device Number : 306

License Device Number : 500

License

Select license file([license.txt](#))to upload

選擇檔案 未選擇任何檔案

Submit

滑鼠點選 **Settings**，可用來線上更新“網路管理專家”軟體 (CyberExpert Update) 並選擇檔案，設定完成後，滑鼠點選 **Submit**。

CyberExpert Update

選擇檔案 未選擇任何檔案

0%

3. “網路管理專家”網路設備總覽

3-1. Device

滑鼠點選 **Device**，是用來設定新增及移除網路相關設備(例如:L2、L3 交換器、防火牆等)。“網路管理專家”可以自動網路搜尋網路相關設備。



加入網路相關設備。 → **Add** **Delete** ← 刪除網路相關設備。

Device List

Search:

IP Addr	Device Type	Alias	MAC Addr	Eth. Port RJ45/Fiber	Last Update	Alive	Setting	Delete
061.220.040.145	internet	Internet	N/A	1/0	2014-12-05 11:11:21	✓	Setting	<input type="checkbox"/>
061.220.040.157	internet	Internet	N/A	1/0	2014-12-05 11:11:21	✓	Setting	<input type="checkbox"/>
172.016.066.001	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:61	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.002	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:81	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.003	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:A1	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.004	L2switch	B區 自強大樓3F 儲藏室	00:12:7B:72:02:C1	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.005	L2switch	B區 自強大樓3F 儲藏室	00:12:7B:72:02:E1	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.006	L2switch	B區 自強大樓3F 儲藏室	00:12:7B:72:03:01	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.007	L2switch	C區 自強大樓3F 儲藏室	00:12:7B:72:03:81	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>
172.016.066.008	L2switch	C區 自強大樓3F 儲藏室	00:12:7B:72:03:E1	24/4	2014-12-05 11:11:06	✓	Setting	<input type="checkbox"/>

Showing 1 to 10 of 306 entries

Previous **1** 2 3 4 5 ... 31 Next

滑鼠點選 IP Addr 的 Device 是進入該台網路設備總結網頁

滑鼠點選 Setting 是進入該台網路設備設定網頁

滑鼠點選 Add，是用來新增網路相關設備(例如:L2、L3 交換器、防火牆等)，網路管理專家可以自動網路搜尋網路相關設備。

Device Insert：是個別加入網路相關設備，輸入 IP、SNMP Port、Community、SNMP Timeout，"網路管理專家"可以指定網路設備 IP，以個別加入網路相關設備。對於不支持 SNMP 的網路相關設備，需勾選 Non-Management，以手動方式加入，加入設備的種類有:L2 Switch、L3 Switch、AC、AP、Firewall、Server、PC、Internet。

Device Scan：是集體方式加入網路相關設備，輸入起始 IP 及終點 IP、SNMP Port、Community、SNMP Timeout，然後網路管理專家可以自動網路搜尋，以集體方式加入網路相關設備。

Add Device

● Non-Management

Select Non-Snmp Device

Select Device ▼

● SNMP v1

Community

public

● SNMP v2c

Community

public

● SNMP v3

Security Name

Security Level

noAuthNoPriv ▼

Authentication Protocol

MD5 ▼

Authentication Password

Privacy Protocol

DES ▼

Privacy Password

Device Insert

IP

Port Timeout

61.220.40.157

161

2sec ▼

Add

Device Scan

Start IP

End IP

Port Timeout

172.16.66.1

172.16.67.80

161

2sec ▼

Scan

對於不支持 SNMP 的網路相關設備，需勾選 Non-Management，以手動方式加入，加入設備的種類有:L2 Switch、L3 Switch、AC、AP、Firewall、Server、PC、Internet。

☒ **Non-Management**

Select Non-Snmp Device	<div><div>Select Device ▼</div><div>Select Device</div><div>L2SW1GR8</div><div>L2SW1GR8F2</div><div>L2SW1GR8F4</div><div>L2SW1GR16</div><div>L2SW1GR16F2</div><div>L2SW1GR16F4</div><div>L2SW1GR24</div><div>L2SW1GR24F2</div><div>L2SW1GR24F4</div><div>L2SW1GR48</div><div>L2SW1GR48F2</div><div>L2SW1GR48F4</div><div>L3SW1GR8</div><div>L3SW1GR8F2</div><div>L3SW1GR8F4</div><div>L3SW1GR16</div><div>L3SW1GR16F2</div><div>L3SW1GR16F4</div><div>L3SW1GR24</div></div>
<input type="radio"/> SNMP v1	
Community	
<input type="radio"/> SNMP v2c	
Community	
<input type="radio"/> SNMP v3	
Security Name	
Security Level	
Authentication Protocol	MD5 ▼
Authentication Password	
Privacy Protocol	DES ▼
Privacy Password	

3-2. Setting

滑鼠點選 Device，再點選 Setting 是進入該台網路設備 設定網頁



The screenshot shows the CyberExpert web interface. The top navigation bar includes links for Device, Topology, Log, Account, Settings, Tools, and About. The 'Device' link is highlighted with a red dashed arrow. Below the navigation bar is the 'Device List' section, which contains a table of network devices. The table has columns for IP Addr, Device Type, Alias, MAC Addr, Eth. Port, Last Update, Alive, Setting, and Delete. The device with IP 172.016.066.001 is highlighted, and its 'Setting' button is also highlighted with a red dashed arrow. A large red arrow points downwards from the 'Setting' button to the bottom of the page.

IP Addr	Device Type	Alias	MAC Addr	Eth. Port	Last Update	Alive	Setting	Delete
061.220.040.145	internet	Internet	N/A	1/0	2014-12-05 14:21:24	✓	Setting	<input type="checkbox"/>
061.220.040.157	internet	Internet	N/A	1/0	2014-12-05 11:21:24	✓	Setting	<input type="checkbox"/>
172.016.066.001	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:61	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>
172.016.066.002	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:81	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>
172.016.066.003	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:A1	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>

Topology	Port status	Vlan	PoE	PoE Schedule	Monitor	Trap	Other
----------	-------------	------	-----	--------------	---------	------	-------

Port	Manual	IP
1	<input type="checkbox"/>	172.16.66.31 ▼
2	<input type="checkbox"/>	172.16.66.32 ▼
3	<input type="checkbox"/>	172.16.66.33 ▼
4	<input type="checkbox"/>	172.16.66.34 ▼
5	<input type="checkbox"/>	172.16.66.35 ▼
6	<input type="checkbox"/>	172.16.66.36 ▼
7	<input type="checkbox"/>	172.16.66.37 ▼
8	<input type="checkbox"/>	172.16.66.38 ▼
9	<input type="checkbox"/>	172.16.66.39 ▼
10	<input type="checkbox"/>	172.16.66.40 ▼
11	<input type="checkbox"/>	172.16.66.41 ▼
12	<input type="checkbox"/>	172.16.66.42 ▼
13	<input type="checkbox"/>	172.16.66.43 ▼
14	<input type="checkbox"/>	172.16.66.44 ▼
15	<input type="checkbox"/>	172.16.66.45 ▼
16	<input type="checkbox"/>	172.16.66.46 ▼
17	<input type="checkbox"/>	172.16.66.47 ▼
18	<input type="checkbox"/>	172.16.66.48 ▼
19	<input type="checkbox"/>	172.16.66.49 ▼
20	<input type="checkbox"/>	172.16.66.50 ▼
21	<input type="checkbox"/>	-----NONE----- ▼
22	<input type="checkbox"/>	-----NONE----- ▼
23	<input type="checkbox"/>	-----NONE----- ▼
24	<input type="checkbox"/>	-----NONE----- ▼
25	<input type="checkbox"/>	172.16.66.15 ▼
26	<input type="checkbox"/>	-----NONE----- ▼
27	<input type="checkbox"/>	-----NONE----- ▼
28	<input type="checkbox"/>	-----NONE----- ▼

Apply

設定網頁有 Topology、Port status、VLAN、POE、POE Schedule、Monitor、Trap、Other 等相關設備設定

Topology 設定網頁

Device: 172.16.66.1 setting

Topology

Port status

Vlan

PoE

PoE Schedule

Monitor

Trap

Other

Port	Manual	IP
1	<input type="checkbox"/>	172.16.66.31 ▼
2	<input type="checkbox"/>	172.16.66.32 ▼
3	<input type="checkbox"/>	172.16.66.33 ▼
4	<input type="checkbox"/>	172.16.66.34 ▼
5	<input type="checkbox"/>	172.16.66.35 ▼
6	<input type="checkbox"/>	172.16.66.36 ▼
7	<input type="checkbox"/>	172.16.66.37 ▼
8	<input type="checkbox"/>	172.16.66.38 ▼
9	<input type="checkbox"/>	172.16.66.39 ▼
10	<input type="checkbox"/>	172.16.66.40 ▼
11	<input type="checkbox"/>	172.16.66.41 ▼
12	<input type="checkbox"/>	172.16.66.42 ▼
13	<input type="checkbox"/>	172.16.66.43 ▼
14	<input type="checkbox"/>	172.16.66.44 ▼
15	<input type="checkbox"/>	172.16.66.45 ▼
16	<input type="checkbox"/>	172.16.66.46 ▼
17	<input type="checkbox"/>	172.16.66.47 ▼
18	<input type="checkbox"/>	172.16.66.48 ▼
19	<input type="checkbox"/>	172.16.66.49 ▼
20	<input type="checkbox"/>	172.16.66.50 ▼
21	<input type="checkbox"/>	-----NONE----- ▼
22	<input type="checkbox"/>	-----NONE----- ▼
23	<input type="checkbox"/>	-----NONE----- ▼
24	<input type="checkbox"/>	-----NONE----- ▼
25	<input type="checkbox"/>	172.16.66.15 ▼
26	<input type="checkbox"/>	-----NONE----- ▼
27	<input type="checkbox"/>	-----NONE----- ▼
28	<input type="checkbox"/>	-----NONE----- ▼

Apply

“網路管理專家”可以自動偵測網路線路鏈接方式，並顯示各網口連接設備的 IP。

對於不能自動偵測網路線路鏈接方式的設備，可用滑鼠點選 **Port Manual**，手動設定這個 **Port** 鏈接設備的 IP。

Port status 設定網頁

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
----------	-------------	------	-----	--------------	---------	------	-------

Port	Interface	Admin	Link	AutoNego		Speed	Duplex	FlowControl	
				Support	Status			Ability	Status
1	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
2	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
3	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
4	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
5	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
6	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
7	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
8	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
9	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
10	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
11	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
12	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
13	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
14	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
15	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
16	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
17	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
18	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off

滑鼠點選 Up 下拉選單可設定埠的開關(Up or Down)，選完再按 Set。

滑鼠點選 Enabled 下拉選單可設定埠 開啓或關閉自動協商(AutoNego Enabled or Disabled)，選完再按 Set。

VLAN 設定網頁

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
Port	PVID	Acceptable Frame Type	Ingress Filtering	Gvrp Status			
1	1	All Frames ▼	Disabled ▼	Disabled ▼			
2	1	All Frames ▼	Disabled ▼	Disabled ▼			
3	1	All Frames ▼	Disabled ▼	Disabled ▼			
4	1	All Frames ▼	Disabled ▼	Disabled ▼			
5	1	All Frames ▼	Disabled ▼	Disabled ▼			
6	1	All Frames ▼	Disabled ▼	Disabled ▼			
7	1	All Frames ▼	Disabled ▼	Disabled ▼			
8	1	All Frames ▼	Disabled ▼	Disabled ▼			
9	1	All Frames ▼	Disabled ▼	Disabled ▼			
10	1	All Frames ▼	Disabled ▼	Disabled ▼			
11	1	All Frames ▼	Disabled ▼	Disabled ▼			
12	1	All Frames ▼	Disabled ▼	Disabled ▼			
13	1	All Frames ▼	Disabled ▼	Disabled ▼			
14	1	All Frames ▼	Disabled ▼	Disabled ▼			
15	1	All Frames ▼	Disabled ▼	Disabled ▼			
16	1	All Frames ▼	Disabled ▼	Disabled ▼			
17	1	All Frames ▼	Disabled ▼	Disabled ▼			
18	1	All Frames ▼	Disabled ▼	Disabled ▼			
19	1	All Frames ▼	Disabled ▼	Disabled ▼			

滑鼠點選 下拉選單可設定埠 VLAN Interface 狀態，選完再按 Set。

POE 設定網頁

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
----------	-------------	------	-----	--------------	---------	------	-------

	Port Admin	Status	Mode	Priority
1	Enabled	▼	DeliveringPower	Low ▼
2	Enabled	▼	DeliveringPower	Low ▼
3	Enabled	▼	DeliveringPower	Low ▼
4	Enabled	▼	DeliveringPower	Low ▼
5	Enabled	▼	DeliveringPower	Low ▼
6	Enabled	▼	DeliveringPower	Low ▼
7	Enabled	▼	DeliveringPower	Low ▼
8	Enabled	▼	DeliveringPower	Low ▼
9	Enabled	▼	DeliveringPower	Low ▼
10	Enabled	▼	DeliveringPower	Low ▼
11	Enabled	▼	DeliveringPower	Low ▼
12	Enabled	▼	DeliveringPower	Low ▼
13	Enabled	▼	DeliveringPower	Low ▼
14	Enabled	▼	DeliveringPower	Low ▼
15	Enabled	▼	DeliveringPower	Low ▼
16	Enabled	▼	DeliveringPower	Low ▼
17	Enabled	▼	DeliveringPower	Low ▼
18	Enabled	▼	DeliveringPower	Low ▼
19	Enabled	▼	DeliveringPower	Low ▼

滑鼠點選下拉選單可設定埠 PoE Interface 狀態，選完再按 Set。

POE Schedule 設定網頁

PoE Schedule List

Delete	Time Schedule Name	Start	End
<input type="checkbox"/>	schedule1	06:00	23:00
<input type="checkbox"/>	schedule2	06:05	23:05
<input type="checkbox"/>	schedule3	06:10	23:10

Delete

註:本圖是由 P.15 頁乙太網路供電排程(PoE Daily Schedule)擷取，請先設定乙太網路供電排程。

Device: 172.16.66.1 setting

Topology

Port status

Vlan

PoE

PoE Schedule

Monitor

Trap

Other

Port	Profile
1	<input checked="" type="checkbox"/> schedule1 ▼
2	<input checked="" type="checkbox"/> schedule1 ▼
3	<input checked="" type="checkbox"/> schedule1 ▼
4	<input checked="" type="checkbox"/> schedule1 ▼
5	<input checked="" type="checkbox"/> schedule1 ▼
6	<input checked="" type="checkbox"/> schedule1 ▼
7	<input checked="" type="checkbox"/> schedule1 ▼
8	<input checked="" type="checkbox"/> schedule1 ▼
9	<input checked="" type="checkbox"/> schedule2 ▼
10	<input checked="" type="checkbox"/> schedule2 ▼
11	<input checked="" type="checkbox"/> schedule2 ▼
12	<input checked="" type="checkbox"/> schedule2 ▼
13	<input checked="" type="checkbox"/> schedule2 ▼
14	<input checked="" type="checkbox"/> schedule2 ▼
15	<input checked="" type="checkbox"/> schedule2 ▼
16	<input checked="" type="checkbox"/> schedule2 ▼
17	<input checked="" type="checkbox"/> schedule3 ▼
18	<input checked="" type="checkbox"/> schedule3 ▼
19	<input checked="" type="checkbox"/> schedule3 ▼
20	<input checked="" type="checkbox"/> schedule3 ▼
21	<input checked="" type="checkbox"/> schedule3 ▼
22	<input checked="" type="checkbox"/> schedule3 ▼
23	<input checked="" type="checkbox"/> schedule3 ▼
24	<input checked="" type="checkbox"/> schedule3 ▼

Apply

滑鼠點選 Port PoE Schedule 可設定埠 PoE 排程(Schedule)狀態，再設定埠 PoE 排程之前，請參考 P.15 頁，先設定乙太網路供電排程(PoE Daily Schedule)，設定完成後，選完再按 Apply。

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
----------	-------------	------	-----	--------------	---------	------	-------

Port Poe Schedule Port Poe Schedule

1	<input type="checkbox"/>	<input type="text"/>	15	<input type="checkbox"/>	<input type="text"/>
2	<input type="checkbox"/>	<input type="text"/>	16	<input type="checkbox"/>	<input type="text"/>
3	<input type="checkbox"/>	<input type="text"/>	17	<input type="checkbox"/>	<input type="text"/>
4	<input type="checkbox"/>	<input type="text"/>	18	<input type="checkbox"/>	<input type="text"/>
5	<input type="checkbox"/>	<input type="text"/>	19	<input type="checkbox"/>	<input type="text"/>
6	<input type="checkbox"/>	<input type="text"/>	20	<input type="checkbox"/>	<input type="text"/>
7	<input type="checkbox"/>	<input type="text"/>	21	<input type="checkbox"/>	<input type="text"/>
8	<input type="checkbox"/>	<input type="text"/>	22	<input type="checkbox"/>	<input type="text"/>
9	<input type="checkbox"/>	<input type="text"/>	23	<input type="checkbox"/>	<input type="text"/>
10	<input type="checkbox"/>	<input type="text"/>	24	<input type="checkbox"/>	<input type="text"/>
11	<input type="checkbox"/>	<input type="text"/>	25	<input type="checkbox"/>	<input type="text"/>
12	<input type="checkbox"/>	<input type="text"/>	26	<input type="checkbox"/>	<input type="text"/>
13	<input type="checkbox"/>	<input type="text"/>	27	<input type="checkbox"/>	<input type="text"/>
14	<input type="checkbox"/>	<input type="text"/>	28	<input type="checkbox"/>	<input type="text"/>

Apply

Monitor 設定網頁

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
Port Monitored Port Monitored							
1	<input type="checkbox"/>	15	<input type="checkbox"/>				
2	<input type="checkbox"/>	16	<input type="checkbox"/>				
3	<input type="checkbox"/>	17	<input type="checkbox"/>				
4	<input type="checkbox"/>	18	<input type="checkbox"/>				
5	<input type="checkbox"/>	19	<input type="checkbox"/>				
6	<input type="checkbox"/>	20	<input type="checkbox"/>				
7	<input type="checkbox"/>	21	<input type="checkbox"/>				
8	<input type="checkbox"/>	22	<input type="checkbox"/>				
9	<input type="checkbox"/>	23	<input type="checkbox"/>				
10	<input type="checkbox"/>	24	<input type="checkbox"/>				
11	<input type="checkbox"/>	25	<input type="checkbox"/>				
12	<input type="checkbox"/>	26	<input type="checkbox"/>				
13	<input type="checkbox"/>	27	<input type="checkbox"/>				
14	<input type="checkbox"/>	28	<input type="checkbox"/>				
<div>Apply</div>							

滑鼠點選 Port Monitored 可設定想要關注的網口狀態，選完再按 Apply 設定，當網口連線狀態改變時，“網路管理專家”會自動發 Email/SMS 通知管理者。

Trap 設定網頁

Device IP : 172.16.66.1 Setting

Topology	Port status	Vlan	POE	POE Schedule	Monitor	Trap	Other
----------	-------------	------	-----	--------------	---------	------	-------

IP Address	<input type="text"/>
Version	v1
Community String	<input type="text"/>
UDP port(1-65535)	<input type="text"/>

<input type="checkbox"/>	Delete	IP Address	Version	Community	UDP Port
<input type="checkbox"/>		172.16.66.19	2	public	1162

滑鼠點選 Trap 可設定 SNMP Trap Server 狀態，可設定 SNMP Trap 要發送 Server IP、Version、Community String、UDP Port 選完再按 Apply 設定。

若要 Delete，點選欲刪除的 Server IP，選完再按 Delete 設定。

Other 設定網頁

Device: 172.16.66.1 setting

✕

Topology	Port status	Vlan	PoE	PoE Schedule	Monitor	Trap	Other
<p>Alias setting: <input type="text" value="A區 演藝大樓2F 機櫃"/> <input type="button" value="set"/></p> <p>Mac refresh: <input type="button" value="refresh"/></p> <p>Snmp Version: <input type="text" value="V2c"/></p> <p>Snmp Timeout: <input type="text" value="2sec"/></p> <p>Read Community: <input type="text" value="public"/></p> <p>Write Community: <input type="text" value="private"/></p> <p>Security Name: <input type="text" value="null"/></p> <p>Security Level: <input type="text" value="noAuthNoPriv"/></p> <p>Authentication Protocol: <input type="text" value="MD5"/></p> <p>Authentication Password: <input type="text" value="...."/></p> <p>Privacy Protocol: <input type="text" value="DES"/></p> <p>Privacy Password: <input type="text" value="...."/> <input type="button" value="set"/></p>							

使用者可設定網路設備別名、Read Community、Write Community、SNMP Timeout、及 SNMP V3 參數，設定完再按 Set

3-3. 網路設備總結網頁

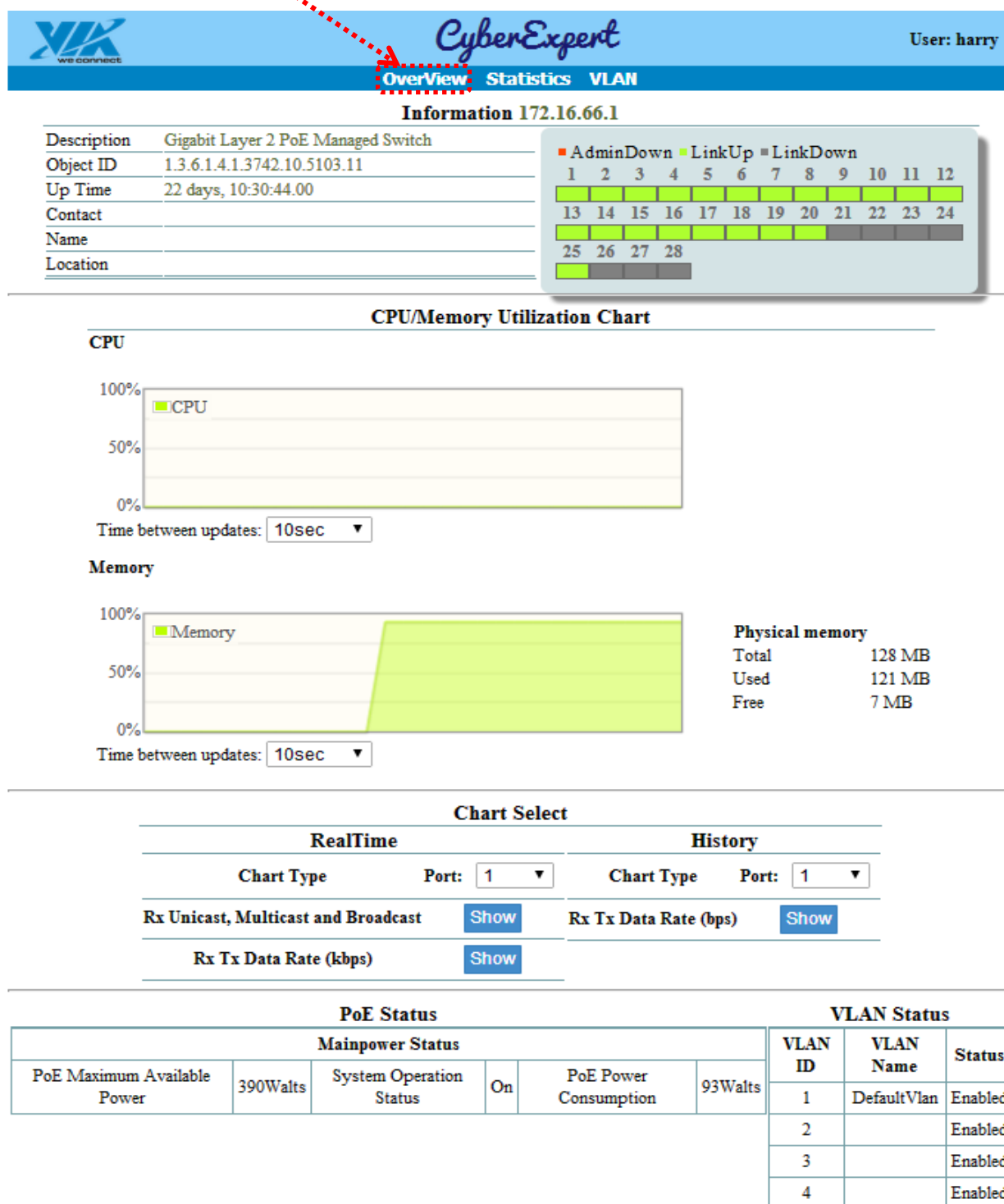
滑鼠點選 **Device**，再點選 IP Addr 的 [172.16.66.1](#) 是進入該台網路設備總結網頁

The screenshot shows the CyberExpert web interface. The top navigation bar includes links for Device, Topology, Log, Account, Settings, Tools, and About. The 'Device' link is highlighted with a red dotted arrow. Below the navigation bar is the 'Device List' section. It features a table with columns: IP Addr, Device Type, Alias, MAC Addr, Eth. Port RJ45/Fiber, Last Update, Alive, Setting, and Delete. The table contains five entries. The third entry, with IP address 172.16.66.001, is highlighted with a red dotted box. A red dotted arrow points from the text above to this IP address. A large red arrow points downwards from the bottom of the table.

IP Addr	Device Type	Alias	MAC Addr	Eth. Port RJ45/Fiber	Last Update	Alive	Setting	Delete
061.220.040.145	internet	Internet	N/A	1/0	2014-12-05 11:21:24	✓	Setting	<input type="checkbox"/>
061.220.040.15	internet	Internet	N/A	1/0	2014-12-05 11:21:24	✓	Setting	<input type="checkbox"/>
172.16.66.001	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:61	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>
172.16.66.002	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:81	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>
172.16.66.003	L2switch	A區 演藝大樓2F 機櫃	00:12:7B:72:02:A1	24/4	2014-12-05 11:21:09	✓	Setting	<input type="checkbox"/>

3-3-1. Overview

滑鼠點選 Overview，是進入該台網路設備總結網頁。

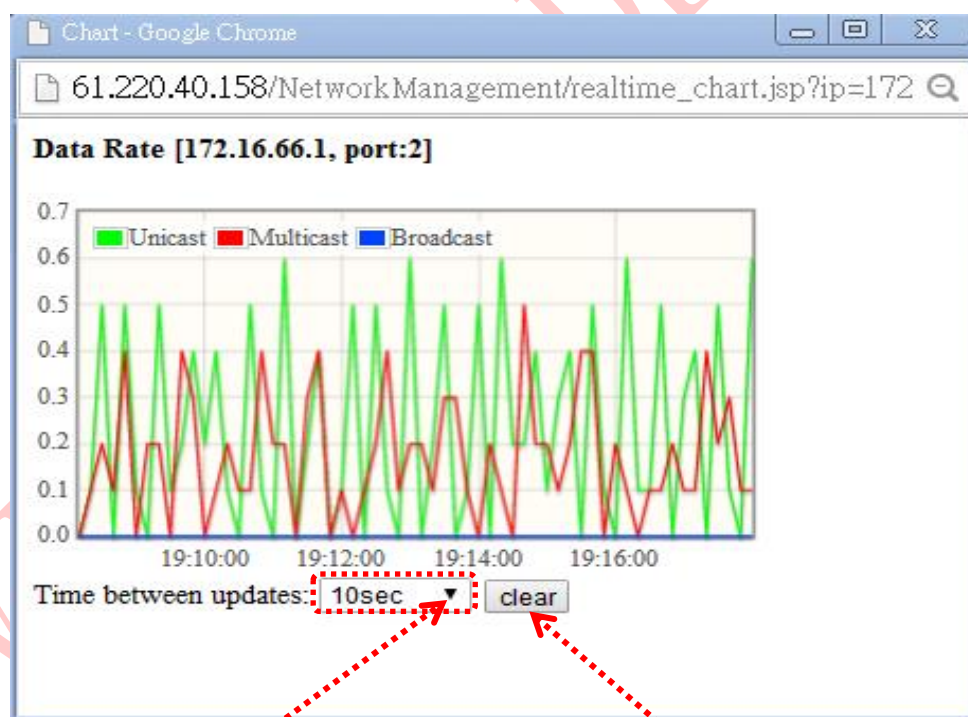


在 Chart Select 中，是進入該台網路設備的圖型分析資料，分為即時資料圖型和歷史資料圖型。

Chart Select			
RealTime		History	
Chart Type	Port: 1	Chart Type	Port: 1
Rx Unicast, Multicast and Broadcast	Show	Rx Tx Data Rate (bps)	Show
Rx Tx Data Rate (kbps)	Show		

滑鼠點選下拉選單先選欲觀看的埠，選完再選種類按 Show

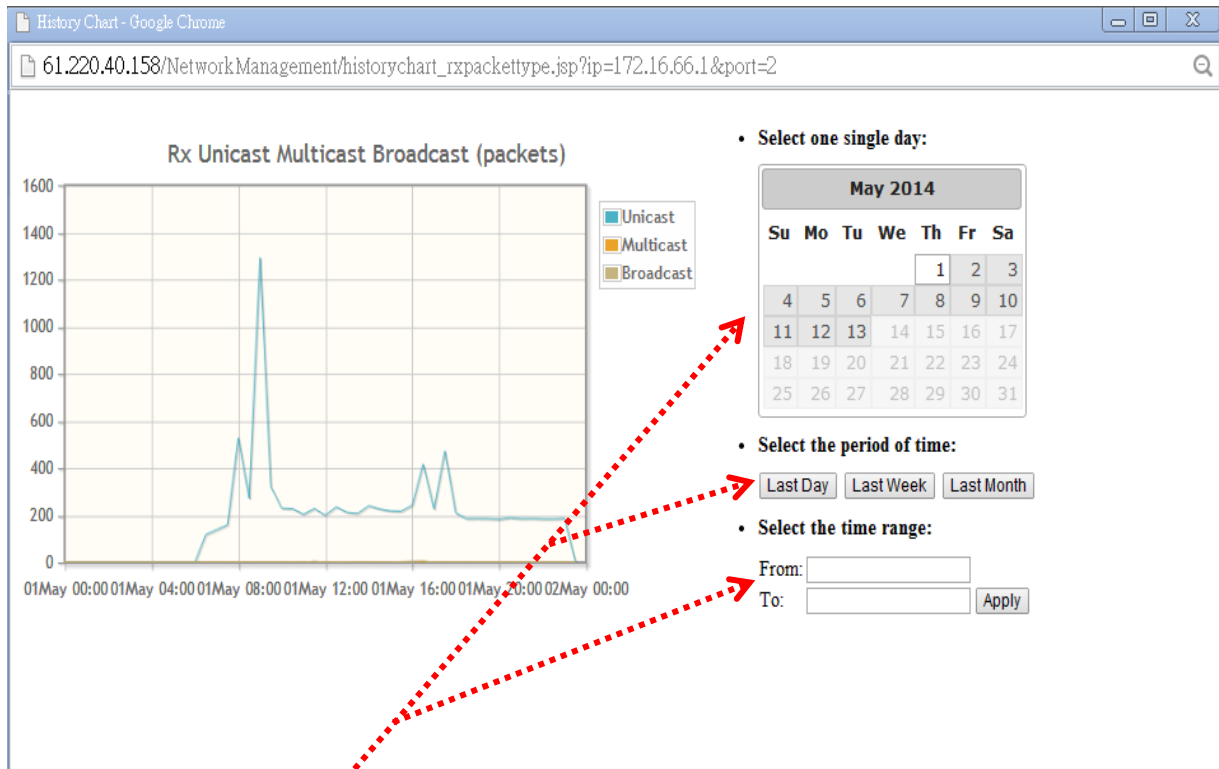
即時資料圖型



滑鼠點選下拉選單可選欲觀看的時間間隔，選完直接更新。
時間間隔有:10sec、20sec、30sec、45sec、1minute、2minute。

滑鼠點選 clear，可清除即時資料圖型。

歷史資料圖型



滑鼠可直接點選日期，也可點選: Last Day、Last Week、Last Month，也可完直接設定時間間隔。

3-3-2. Statistics

滑鼠點選 **Statistics** 下的 **Port Statistic**，是進入該台網路設備中各個埠封包統計分析資料

CyberExpert User: harry

Overview Statistics VLAN

Port Statistic
EtherLike Statistic
Rmon Statistic

LinkUp LinkDown

1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28

Port Statistics

Port	Received							Transmitted						
	Octets	Unicast Packets	Multicast Packets	Broadcast Packets	Discarded Packets	Unknown Packets	Errors	Octets	Unicast Packets	Multicast Packets	Broadcast Packets	Discarded Packets	Errors	
1	141014125	457969	80971	26448	0	0	0	2797441482	682204	19229466	2853510	0	0	
2	155939494	599902	80333	24060	0	0	0	3311966091	1020578	19228812	2855740	0	0	
3	94329245	99037	78124	71	0	0	0	1992061614	81710	19232438	2879901	0	0	
4	139490135	87621	78184	25	0	0	0	1974955940	68522	19230807	2879822	0	0	
5	511380085	2561481	79264	10923	0	0	0	592763461	5063921	19232347	2869175	0	0	
6	413189663	1522743	78788	3118	0	0	0	714927820	2135030	19232383	2876893	0	0	
7	74903916	117978	78139	954	0	0	0	1987302298	81347	19232922	2879145	0	0	
8	104291897	168701	78084	837	0	0	0	2177708263	206988	19232560	2879203	0	0	
9	96796942	91412	77947	34	0	0	0	1969098036	66119	19183452	2877669	0	0	
10	79267023	93610	77877	91	0	0	0	1973301872	74470	19185048	2877507	0	0	
11	77177712	88666	77977	284	0	0	0	1969309696	67683	19183261	2877486	0	0	
12	79872194	89910	77943	15	0	0	0	1969379448	69135	19184773	2877680	0	0	
13	94360923	191550	78251	43	0	0	0	2407332612	359623	19184673	2877644	0	0	
14	118043959	85933	77949	69	0	0	0	1972814720	72324	19182751	2877369	0	0	
15	84986438	84560	77873	25	0	0	0	1969912777	70308	19185185	2877688	0	0	
16	127997622	85143	77990	11	0	0	0	1969367464	69117	19184258	2877648	0	0	
17	92808787	117061	77901	1100	0	0	0	2010153056	105761	19078916	2872420	0	0	
18	84495986	91365	77780	680	0	0	0	1958129309	66097	19071278	2872773	0	0	
19	120227454	166966	67919	50858	0	0	0	2056150832	174494	19090403	2822723	0	0	
20	96830403	147102	63863	398	0	0	0	2027375517	126575	19090764	2873114	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	2289189759	10532921	16172379	3623462	0	0	0	822582196	6986300	1672744	120409	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	

Refresh ☐ Auto Refresh

滑鼠把 **Auto Refresh** 打勾，是每隔 30 秒自動更新網路設備封包統計分析資料

滑鼠點選 **Refresh**，是強制更新網路設備封包統計分析資料

滑鼠點選 **Statistics** 下的 **EtherLike Statistic**，是進入該台網路設備中各個埠的封包錯誤統計分析資料

CyberExpert User: harry

Overview Statistics VLAN

Information

Description: Gigabit Layer 2 PoE Managed Switch
Object ID: 1.3.6.1.4.1.3742.10.5103.11
Up Time: 9 days, 16:28:30.46
Contact:
Name:
Location:

EtherLike Statistics

Port	Errors				Internal Mac		Carrier Sense Errors	Frame Too Longs	Frames		Collisions		Deferred Trans.	
	Align. Errors	FCS Errors	Symbol Errors	SQE Test Errors	Mac Receive Errors	Mac Transmit Errors			Single Collision Frames	Multiple Collision Frames	In Pause Frames	Out Pause Frames		Late Collisions
1	0	0	0	0	0	0	0	0	0	0	1195062	0	0	0
2	0	0	0	0	0	0	0	0	0	0	1285816	0	0	0
3	0	0	0	0	0	0	0	0	0	0	1165614	0	0	0
4	0	0	0	0	0	0	0	0	0	0	1892484	0	0	0
5	0	0	0	0	0	0	0	0	0	0	4201176	0	0	0
6	0	0	0	0	0	0	0	0	0	0	4041636	0	0	0
7	0	0	0	0	0	0	0	0	0	0	830808	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1226688	0	0	0
9	0	0	0	0	0	0	0	0	0	0	1218950	0	0	0
10	0	0	0	0	0	0	0	0	0	0	940260	0	0	0
11	0	0	0	0	0	0	0	0	0	0	916612	0	0	0
12	0	0	0	0	0	0	0	0	0	0	959934	0	0	0
13	0	0	0	0	0	0	0	0	0	0	1052728	0	0	0
14	0	0	0	0	0	0	0	0	0	0	1560694	0	0	0
15	0	0	0	0	0	0	0	0	0	0	1046752	0	0	0
16	0	0	0	0	0	0	0	0	0	0	1718246	0	0	0
17	0	0	0	0	0	0	0	0	0	0	1119904	0	0	0
18	0	0	0	0	0	0	0	0	0	0	1025968	0	0	0
19	0	0	0	0	0	0	0	0	0	0	1356074	0	0	0
20	0	0	0	0	0	0	0	0	0	0	1133638	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Refresh ☒ Auto Refresh

滑鼠把 **Auto Refresh** 打勾，是每隔 30 秒自動更新網路設備封包統計分析資料

滑鼠點選 **Refresh**，是強制更新網路設備封包統計分析資料

滑鼠點選 **Statistics** 下的 **Rmon Statistic**，是進入該台網路設備中各個埠的各種長度封包統計分析資料

CyberExpert User: harry

Overview Statistics VLAN

Information Port Statistic
Etherlike Statistic
Rmon Statistic

Description Gigabit Layer 2 PoE Managed Switch
Object ID 1.3.6.1.4.1.3742.10.5103.11
Up Time 9 days, 16:31:23.06
Contact
Name
Location

LinkUp LinkDown

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28								

RMON Statistics

Port	Packets								
	Received Pkts	Undersize Pkts	Oversize Pkts	64 Pkts	65to127 Pkts	128to255 Pkts	256to511 Pkts	512to1023 Pkts	1024to1518 Pkts
1	1760891	0	3115	1282973	405704	39557	24662	3973	907
2	1990511	0	1875	1371940	548215	39545	22362	5053	1521
3	1343411	0	149	1224400	79110	39334	123	223	72
4	2058427	0	4	1949125	69931	39287	36	30	14
5	6853386	0	1684	4414623	2346421	41441	15042	21405	12770
6	5646458	0	279	4130690	1454045	40480	3793	9947	7224
7	1028005	0	17	890689	97011	39461	497	246	84
8	1474434	0	6	1285731	147779	39433	516	577	392
9	1388452	0	1	1273270	75878	39268	22	3	10
10	1112205	0	32	999728	72598	39282	202	228	135
11	1083653	0	4	972505	71755	39280	64	22	23
12	1128342	0	0	1017871	71191	39256	15	0	9
13	1323134	0	42	1107482	174086	39585	679	1155	105
14	1725078	0	9	1618465	67005	39343	141	88	27
15	1209683	0	10	1104835	65355	39295	110	48	30
16	1881601	0	2	1775657	66612	39257	50	12	11
17	1316501	0	22	1179983	96825	39227	274	110	60
18	1196308	0	2	1080793	76175	39250	51	17	20
19	1642208	0	475	1467455	122518	41349	4366	5398	647
20	1345109	0	426	1203955	96490	40117	1818	1851	452
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	30344201	0	8212842	1339169	19965150	170056	94622	104070	458292
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0



Refresh ☐ Auto Refresh

滑鼠把 **Auto Refresh** 打勾，是每隔 30 秒自動更新網路設備封包統計分析資料

滑鼠點選 **Refresh**，是強制更新網路設備封包統計分析資料

3-3-3. VLAN

滑鼠點選 VLAN，是進入該台網路設備的 VLAN 所有資料，分為靜態虛擬網路列表(Static VLAN List)和即時虛擬網路列表(Current VLAN List)

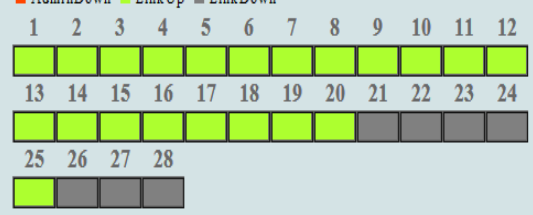


User: harry

OverView
Statistics
VLAN

Information 172.16.66.1

Description	Gigabit Layer 2 PoE Managed Switch
Object ID	1.3.6.1.4.1.3742.10.5103.11
Up Time	22 days, 10:48:27.20
Contact	
Name	
Location	

■ AdminDown
 ■ LinkUp
 ■ LinkDown



PVID List

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28
PVID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Static VLAN List

VID	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N
3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N
4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N

Current VLAN List

VID	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N
3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N
4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	N	N	N

U:Untagged T:Tagged F:Forbidden N:None

☒ Auto.Refresh

滑鼠點選 Refresh，是強制更新網路設備封包統計分析資料

滑鼠把 Auto Refresh 打勾，是每隔 30 秒自動更新網路設備 封包統計分析資料

4. “網路管理專家”網路拓譜圖

滑鼠點選 **Topology**，”網路管理專家”能支援威盛的網路設備去自動畫出網路拓譜圖，不再需要透過人工查線，一旦更改網路設備或插入新設備也能立即製作新的網路拓譜圖。

Topology

Choose top device (please choose one device in topology map) or Choose display type: IP (Name) **Apply**

Refresh topology map: (scan all device stp and lldp) **Refresh** ← 更新並自動畫出網路拓譜圖

Save top device: (please choose one device in topology map) **Save (172.16.66.15)** ← 儲存拓譜圖最上層顯示的網路設備

Trace Path: (please choose two device in topology map) **Trace Path** ← 診斷網路設備之間的流量

(1)

- 172.16.66.15 (ECS4610-24F)
- 192.168.1.1 (ZyWALL USG 1000)
- 61.220.40.145 (Internet)
- 61.220.40.157 (Internet)
- 172.16.66.14 (VIA Wireless Controller VNT5801)
- 172.16.66.17 (Dopod CacheBoxSrv)
- 172.16.66.19 (VIA NetExpert VNT5601)
- 172.16.66.1 (A區 演藝大樓2F 機櫃)
- 172.16.66.2 (A區 演藝大樓2F 機櫃)
- 172.16.66.3 (A區 演藝大樓2F 機櫃)
- 172.16.66.4 (B區 自強大樓3F 儲藏室)
- 172.16.66.5 (B區 自強大樓3F 儲藏室)
- 172.16.66.6 (B區 自強大樓3F 儲藏室)
- 172.16.66.7 (C區 自強大樓3F 儲藏室)
- 172.16.66.8 (C區 自強大樓3F 儲藏室)
- 172.16.66.9 (C區 自強大樓3F 儲藏室)
- 172.16.66.10 (D區 中正大樓3F 餐二純儲藏室)
- 172.16.66.11 (D區 中正大樓3F 餐二純儲藏室)
- 172.16.66.12 (E區 中正大樓3F 職訓儲藏室)
- 172.16.66.13 (E區 中正大樓3F 職訓儲藏室)

(2)

- 172.16.66.110 (VIA Access Point VNT5901)

(3)

- 172.16.66.164 (VIA Access Point VNT5901)

(4)

- 172.16.66.198 (VIA Access Point VNT5901)

已經離線的 AP

From					To				
Type	IP Addr	Port	History	Real-time	Type	IP	Port	History	Real-time

可任意選擇設定最上層顯示的網路設備，及可以標明網路設備的方式(有 IP only、Name only、IP 先 Name 後、Name 先 IP 後、IP(使用率)、Name(使用率)、IP(Name)(使用率)、Name(IP)(使用率)。先點選拓譜圖最上層顯示的網路設備，再選擇標明網路設備的方式，設定完按 **Apply**”網路管理專家”能立即製作新的網路拓譜圖。

“網路管理專家”可診斷網路設備之間的流量，滑鼠先點選要檢測的兩個網路設備，接下來滑鼠再點選 **Trace Path**，”網路管理專家”自動畫出網路設備的經過路徑，再分析其即時資料和歷史資料圖，即可找出流量問題。

● Trace Path: (please choose two device in topology map) **Trace Path**

(1)

- 172.16.66.15 (ECS4610-24F)
- 192.168.1.1 (ZyWALL USG 1000)
- 61.220.40.145 (Internet)
- 61.220.40.157 (Internet)
- 172.16.66.14 (VIA Wireless Controller VNT5800)
- 172.16.66.17 (Dopod CacheBoxSrv)
- 172.16.66.19 (VIA NetExpert VNT5601)
- 172.16.66.1 (A區 演藝大樓2F 機櫃)
- 172.16.66.2 (A區 演藝大樓2F 機櫃)
- 172.16.66.3 (A區 演藝大樓2F 機櫃)
- 172.16.66.4 (B區 自強大樓3F 儲藏室)
- 172.16.66.5 (B區 自強大樓3F 儲藏室)
- 172.16.66.6 (B區 自強大樓3F 儲藏室)
- 172.16.66.7 (C區 自強大樓3F 儲藏室)
- 172.16.66.8 (C區 自強大樓3F 儲藏室)
- 172.16.66.9 (C區 自強大樓3F 儲藏室)
- 172.16.66.10 (D區 中正大樓3F 餐二純儲藏室)
- 172.16.66.11 (D區 中正大樓3F 餐二純儲藏室)
- 172.16.66.12 (E區 中正大樓3F 職訓儲藏室)
- 172.16.66.13 (E區 中正大樓3F 職訓儲藏室)

(2)

- 172.16.66.110 (VIA Access Point VNT5901)

(3)

- 172.16.66.164 (VIA Access Point VNT5901)

(4)

- 172.16.66.198 (VIA Access Point VNT5901)

From					To				
Type	IP Addr	Port	History	Real-time	Type	IP	Port	History	Real-time
172.16.66.2	25	9		=>	172.16.66.15	12	9		
172.16.66.15	16	9		=>	172.16.66.6	25	9		

5. “網路管理專家”無線控制器

5-1. AC

滑鼠點選 Device，再點選 IP Addr 的 [172.16.66.14](#) 是進入該台 AC 總結網頁 AC Overview，”網路管理專家”能顯示威盛的無線網路控制器總覽。



The screenshot shows the CyberExpert web interface. The top navigation bar includes the logo, the name "CyberExpert", the user "harry", and a "Logout" link. Below the navigation bar is a menu with "Device", "Topology", "Log", "Account", "Settings", "Tools", and "About". The "Device" menu is highlighted with a red dotted arrow. Below the menu is the "Device List" section, which includes "Add" and "Delete" buttons, a "Show 10 entries" dropdown, and a search bar. The table below lists devices with columns: IP Addr, Device Type, Alias, MAC Addr, Eth. Port RJ45/Fiber, Last Update, Alive, Setting, and Delete. The IP address [172.16.66.14](#) is highlighted with a red dotted box and a red arrow. A large red arrow points downwards from the table area.

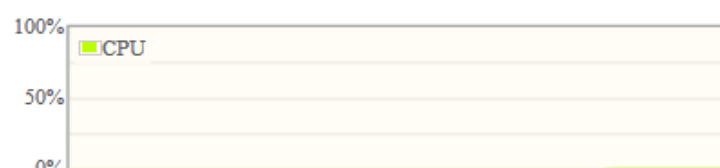
IP Addr	Device Type	Alias	MAC Addr	Eth. Port RJ45/Fiber	Last Update	Alive	Setting	Delete
172.016.066.009	L2switch	C區 自強大樓3F 儲藏室	00:12:7B:72:0A:01	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.010	L2switch	D區 中正大樓3F 餐二純儲藏室	00:12:7B:72:03:21	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.011	L2switch	D區 中正大樓3F 餐二純儲藏室	00:12:7B:72:03:41	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.012	L2switch	E區 中正大樓3F 職訓儲藏室	00:12:7B:72:03:C1	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.013	L2switch	E區 中正大樓3F 職訓儲藏室	00:12:7B:72:03:61	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.014	wlanAC	VIA Wireless Controller VNT5801	7E:1A:B4:14:DB:BD	4/0	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>

**Information 172.16.66.14**

Description	VIA Wireless Controller VNT5801
Object ID	1.3.6.1.4.1.3742.10.5801.1
Up Time	10 days, 20:45:52.42
Contact	bofh@example.com
Name	HeartOfGold
Location	office

■ AdminDown ■ LinkUp ■ LinkDown

1 2 3 4

**Realtime Chart****CPU**

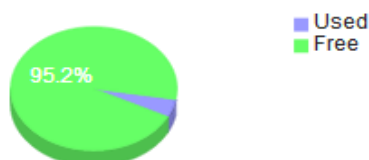
Time between updates: 10sec ▼

Memory

Time between updates: 10sec ▼

Physical memory

Total	2062 MB
Cached	181 MB
Used	923 MB
Free	1138 MB

Disk Chart**Disk****Disk Status**

Total	9.03 GB
Used	0.43 GB
Free	8.60 GB

RealTime Chart Select**History Chart Select****RealTime Chart Select****History Chart Select**

Chart Type Port: 1 ▼

Chart Type Port: 1 ▼

Rx Tx Data Rate (kbps) Show

Rx Tx Data Rate (bps) Show

滑鼠點選 Friendly AP，”網路管理專家”能顯示現在網路所有合法無線 AP。



CyberExpert

User: harry [Logout](#)

AC AP Client Log

AC Overview
Friendly AP
 Rogue AP

AP

No.	BSSID	SSID	Security Mode
1	00:40:63:11:fb:50	ssid1	WPA2 802.1X(TKIP,CCMP)
2	00:40:63:11:fb:51	ssid2	WPA2 802.1X(TKIP,CCMP)
3	00:40:63:11:fb:52	ssid3	WPA2 802.1X(TKIP,CCMP)
4	00:40:63:11:fb:58	ssid1	WPA2 802.1X(TKIP,CCMP)
5	00:40:63:11:fb:59	ssid2	WPA2 802.1X(TKIP,CCMP)
6	00:40:63:11:fb:5a	ssid3	WPA2 802.1X(TKIP,CCMP)
7	00:40:63:12:06:60	ssid1	WPA2 802.1X(TKIP,CCMP)
8	00:40:63:12:06:61	ssid2	WPA2 802.1X(TKIP,CCMP)
9	00:40:63:12:06:62	ssid3	WPA2 802.1X(TKIP,CCMP)
10	00:40:63:12:06:68	ssid1	WPA2 802.1X(TKIP,CCMP)
11	00:40:63:12:06:69	ssid2	WPA2 802.1X(TKIP,CCMP)
12	00:40:63:12:06:6a	ssid3	WPA2 802.1X(TKIP,CCMP)
13	00:40:63:12:03:90	ssid1	WPA2 802.1X(TKIP,CCMP)
14	00:40:63:12:03:91	ssid2	WPA2 802.1X(TKIP,CCMP)
15	00:40:63:12:03:92	ssid3	WPA2 802.1X(TKIP,CCMP)
16	00:40:63:12:03:98	ssid1	WPA2 802.1X(TKIP,CCMP)
17	00:40:63:12:03:99	ssid2	WPA2 802.1X(TKIP,CCMP)
18	00:40:63:12:03:9a	ssid3	WPA2 802.1X(TKIP,CCMP)

滑鼠點選 Rogue AP，”網路管理專家”能顯示現在網路所有非法無線 AP。



CyberExpert

User: [harry](#) [Logout](#)

[AC](#)
[AP](#)
[Client](#)
[Log](#)

AC Overview

Friendly AP

Rogue AP

AP

No.	BSSID	SSID	Security Mode
1	94:0c:6db2:57:78	"TP-LINK_B25778"	WPA2 PSK (CCMP)
2	00:40:63:10:ff00	"24"	mixed WPA/WPA2 PSK (TKIP, CCMP)
3	00:40:63:10:ff01	"24_2"	mixed WPA/WPA2 PSK (TKIP, CCMP)
4	00:40:63:11:e1:90	"VIATP_Users"	WPA2 802.1X (TKIP)
5	00:40:63:10:fe:00	"24"	mixed WPA/WPA2 PSK (TKIP, CCMP)
6	00:11:50:38:a9:85	"QA Test"	WPA PSK (TKIP)
7	00:40:63:11:04:00	"24"	mixed WPA/WPA2 PSK (TKIP, CCMP)
8	00:28:05:1e:45:0e	"WRT300N_V2"	WPA PSK (TKIP)
9	00:40:63:11:e1:91	"VIATP_WLANs"	WPA PSK (TKIP)
10	b8:a3:86:ad:c4:86	"TM-529"	mixed WPA/WPA2 PSK (TKIP, CCMP)
11	00:40:63:11:e1:92	"VIA_Visitors"	WPA PSK (TKIP)
12	8c:be:be:48:d4:80	unknown	WPA2 PSK (CCMP)
13	00:40:63:11:e6:b2	"VIA_Visitors"	WPA PSK (TKIP)
14	64:70:02:98:6b:0b	"TP-LINK_2.4GHz_N750"	WPA2 PSK (TKIP, CCMP)
15	00:40:63:11:e6:b0	"VIATP_Users"	WPA2 802.1X (TKIP)
16	00:40:63:11:e6:b1	"VIATP_WLANs"	WPA PSK (TKIP)
17	00:17:3f40:fc:82	"CSSD_AP"	WPA PSK (CCMP)
18	10:fe:ede2:67:98	"greenvity_demo"	mixed WPA/WPA2 PSK (TKIP, CCMP)

5-2. AP

滑鼠點選 AP List，”網路管理專家”能顯示現在網路所有連線及離線的無線 AP 總覽。

<div>   User: harry Logout </div>										
<div> AC AP Client Log </div>										
<div> AP List AP Real-Time Chart AP History Chart Online </div>										
No.	Name	Model	Firmware	IP	MAC	2.4G / 5G Channel	Status	Profile	Group	Alive
1	FORNMS	VN5901	1.03.52.20	192.168.0.251	00:12:7B:81:10:F0	auto/Disable	managed	FORNMS	default	✓
2	NMS_8F	VN5901	1.03.52.20	192.168.0.252	00:12:7B:81:12:20	11/Disable	managed	NMS_8F	default	✓
3	VNT5901	VN5901	1.03.52.20	192.168.2.1	00:12:7B:81:20:88	11/149	managed	nms_test	default	✓
4	VNT5901	VN5901	1.03.52.20	192.168.2.10	00:12:7B:81:20:66	11/149	managed	nms_test	default	✓
5	VNT5901	VN5901	1.03.52.20	192.168.2.100	00:12:7B:81:20:0C	11/149	managed	nms_test	default	✓
6	VNT5901	VN5901	1.03.52.20	192.168.2.101	00:12:7B:81:20:27	11/149	managed	nms_test	default	✓
7	VNT5901	VN5901	1.03.52.20	192.168.2.102	00:12:7B:81:1F:FA	11/149	managed	nms_test	default	✓
8	VNT5901	VN5901	1.03.52.20	192.168.2.103	00:12:7B:81:20:A9	11/149	managed	nms_test	default	✓
9	VNT5901	VN5901	1.03.52.20	192.168.2.104	00:12:7B:81:20:F8	11/149	managed	nms_test	default	✓
10	VNT5901	VN5901	1.03.52.20	192.168.2.105	00:12:7B:81:20:68	11/149	managed	nms_test	default	✓
11	VNT5901	VN5901	1.03.52.20	192.168.2.106	00:12:7B:81:1F:C9	11/149	managed	nms_test	default	✓
12	VNT5901	VN5901	1.03.52.20	192.168.2.107	00:12:7B:81:20:37	11/149	managed	nms_test	default	✓
13	VNT5901	VN5901	1.03.52.20	192.168.2.108	00:12:7B:81:1F:ED	11/149	managed	nms_test	default	✓
14	VNT5901	VN5901	1.03.52.20	192.168.2.109	00:12:7B:81:20:8D	11/149	managed	nms_test	default	✓
15	ACWebTest	VN5901	1.03.52.20	192.168.2.11	00:12:7B:81:06:B0	1/Disable	managed	ACWebTest	default	✓

滑鼠點選 Real-Time Flow Diagram，「網路管理專家」能顯示現在網路所有連線的無線 AP 即時資料圖型。



CyberExpert

User: [harry](#) [Logout](#)

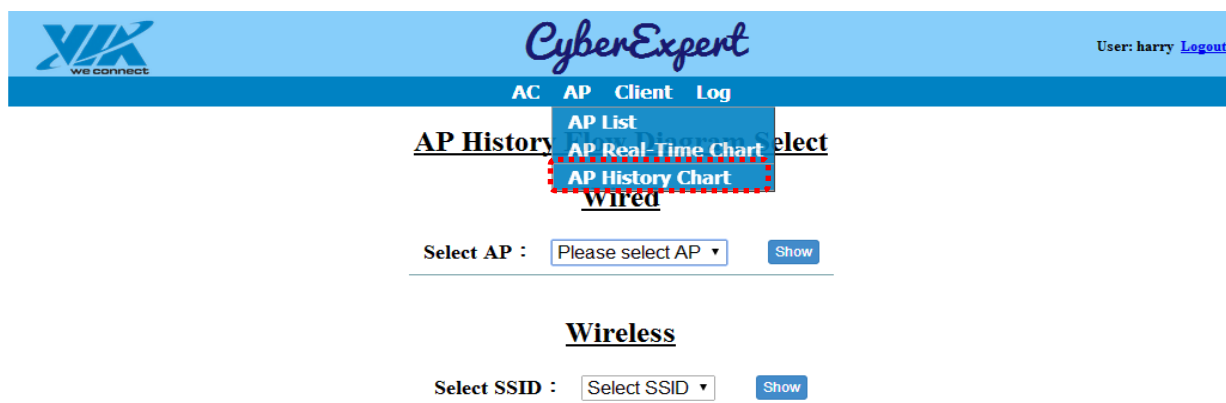
ACAPClientLog

API

AP List
AP Real-Time Chart
AP History Chart

No.	AP Name	IP(Wired)	SSID(Wireless)
1	FORNMS	192.168.0.251	<input type="text" value="-----Select SSID-----"/>
2	NMS_8F	192.168.0.252	<input type="text" value="-----Select SSID-----"/>
3	VNT5901	192.168.2.1	<input type="text" value="-----Select SSID-----"/>
4	VNT5901	192.168.2.10	<input type="text" value="-----Select SSID-----"/>
5	VNT5901	192.168.2.100	<input type="text" value="-----Select SSID-----"/>
6	VNT5901	192.168.2.101	<input type="text" value="-----Select SSID-----"/>
7	VNT5901	192.168.2.102	<input type="text" value="-----Select SSID-----"/>
8	VNT5901	192.168.2.103	<input type="text" value="-----Select SSID-----"/>
9	VNT5901	192.168.2.104	<input type="text" value="-----Select SSID-----"/>
10	VNT5901	192.168.2.105	<input type="text" value="-----Select SSID-----"/>
11	VNT5901	192.168.2.106	<input type="text" value="-----Select SSID-----"/>
12	VNT5901	192.168.2.107	<input type="text" value="-----Select SSID-----"/>
13	VNT5901	192.168.2.108	<input type="text" value="-----Select SSID-----"/>
14	VNT5901	192.168.2.109	<input type="text" value="-----Select SSID-----"/>
15	ACWebTest	192.168.2.11	<input type="text" value="-----Select SSID-----"/>
16	VNT5901	192.168.2.110	<input type="text" value="-----Select SSID-----"/>
17	VNT5901	192.168.2.111	<input type="text" value="-----Select SSID-----"/>

滑鼠點選 AP History Chart，「網路管理專家」能顯示現在網路所有連線的無線 AP 歷史資料圖型。



5-3. Clients

滑鼠點選 **Client List**，“網路管理專家”能顯示現在網路所有連線的 2.4G 和 5G 頻帶的無線使用者列表。



No.	Client	MAC	MAC Vendor	IP	SSID	Signal	RX Rate	TX Rate	AP Name	AP IP
1		1C:B0:94:35:A3:12		172.18.1.39	Student	-35 dbm	39 Mbps	72 Mbps	A1-3.2	172.16.66.36
2		1C:B0:94:35:6A:69		172.18.1.12	Student	-42 dbm	19 Mbps	65 Mbps	A1-3.2	172.16.66.36
3		A8:26:D9:BE:37:9B		172.18.1.28	Student	-38 dbm	5 Mbps	57 Mbps	A1-1.1	172.16.66.31
4		1C:B0:94:1A:B0:CA		172.18.1.52	Student	-36 dbm	6 Mbps	65 Mbps	A2-2.1	172.16.66.51
5		1C:B0:94:1A:F2:38		172.18.1.30	Student	-58 dbm	39 Mbps	52 Mbps	B2-6.1	172.16.66.95
6		1C:B0:94:1A:F6:F2		172.18.1.26	Student	-42 dbm	52 Mbps	52 Mbps	A3-2.1	172.16.66.41
7		1C:B0:94:19:23:04		172.18.1.22	Student	-42 dbm	72 Mbps	72 Mbps	B4-3.1	172.16.66.139
8		1C:B0:94:1A:E6:CD		172.18.1.63	Student	-49 dbm	13 Mbps	65 Mbps	B4-3.1	172.16.66.139
9		1C:B0:94:1A:42:13		172.18.1.34	Student	-49 dbm	13 Mbps	65 Mbps	B4-3.1	172.16.66.139
10		1C:B0:94:18:EC:61		172.18.1.29	Student	-39 dbm	19 Mbps	57 Mbps	B4-3.1	172.16.66.139
11		1C:B0:94:18:F7:4A		172.18.1.131	Student	-50 dbm	13 Mbps	65 Mbps	B4-3.1	172.16.66.139
12		1C:B0:94:1A:AE:F6		172.18.1.59	Student	-42 dbm	19 Mbps	52 Mbps	B4-3.1	172.16.66.139
13		1C:B0:94:1A:11:3C		172.18.1.4	Student	-49 dbm	19 Mbps	52 Mbps	B4-3.1	172.16.66.139
14		E8:99:C4:02:E3:87		172.18.1.120	Student	-40 dbm	6 Mbps	57 Mbps	B2-1.1	172.16.66.114
15		D4:20:6D:2D:78:E3		172.18.1.143	Student	-40 dbm	6 Mbps	58 Mbps	B2-5.1	172.16.66.91
16		A8:26:D9:CB:6B:1A		172.18.1.75	Student	-49 dbm	72 Mbps	58 Mbps	B2-5.1	172.16.66.91
17		1C:B0:94:1A:B4:B9		172.18.1.118	Student	-33 dbm	19 Mbps	65 Mbps	B2-5.1	172.16.66.91
18		E8:99:C4:02:FF:24		172.18.1.35	Student	-49 dbm	13 Mbps	58 Mbps	B2-5.1	172.16.66.91
19		A8:26:D9:C4:C7:D7		172.18.1.82	Student	-52 dbm	19 Mbps	65 Mbps	B2-5.1	172.16.66.91
20		E8:99:C4:04:0A:07		172.18.1.37	Student	-38 dbm	72 Mbps	57 Mbps	B2-2.1	172.16.66.116

滑鼠點選 Client Device List，「網路管理專家」能匯入網路所有無線使用者名稱及其 Device MAC Address。

The screenshot shows the CyberExpert web interface. At the top, there is a navigation bar with the YIA logo, the text "CyberExpert", and the user information "User: harry Logout". Below the navigation bar, there are tabs for "AC", "AP", "Client", and "Log". The "Client" tab is selected, and a dropdown menu is open, showing three options: "Client List", "Client Device List" (which is highlighted with a red dashed border), and "Client Number Chart". Below the dropdown menu, there is a section for uploading a CSV file, with a button labeled "Upload" and a text box containing "選擇檔案 未選擇任何檔案".

Below the upload section, there is a table with 18 rows of data. The table has three columns: "No.", "Client", and "Device MAC". The data is as follows:

No.	Client	Device MAC
1	iang	00:23:15:5B:01:3
2	ie Chuang	00:26:82:2A:09:
3	m Pai	00:21:00:8E:25:
4	a HC. Tsai	00:C0:A8:B2:B2
5	a Y Chang	00:1E:52:7D:38
6	ert Chiang	00:25:56:BA:C0
7	ert Chiang	68:17:29:E3:81:
8	ert Hsu	00:1D:92:11:C0
9	ert Pan	24:0A:64:47:C9
10	ert Zhai	00:90:27:A3:6A
11	x C Chen	1C:4B:D6:CE:7
12	x C Chen	30:F7:C5:25:2A
13	x Chen	00:19:CB:02:3E
14	x Chen	00:24:2B:F6:49:
15	x Chu	00:24:2B:F7:75:
16	x Chu	24:0A:64:8E:F6
17	x Chu	00:23:76:D2:08:
18	x Liao	3C:15:C2:B7:38

滑鼠點選 Client Number Chart，“網路管理專家”能顯示現在網路所有連線的無線 Client 即時資料圖型及歷史資料圖型。

The screenshot shows the CyberExpert web interface. At the top, there is a blue header with the YAK logo (we connect) on the left, the CyberExpert logo in the center, and the user information 'User: harry Logout' on the right. Below the header is a navigation bar with links: AC, AP, Client, and Log. The 'Client' link is selected, and a dropdown menu is visible with three options: 'Client List', 'Client Device List', and 'Client Number Chart'. The 'Client Number Chart' option is highlighted with a red dashed border. Below the navigation bar, there are two main sections: 'Real-Time' and 'History'. Under 'Real-Time', there is a table titled 'Wireless Clients' with a single row containing the link '802.11an & bgn(2.4GHz & 5GHz)'. Under 'History', there is a table titled 'Wireless Clients' with four rows containing links: 'Total', '802.11an(5GHz)', '802.11bgn(2.4GHz)', and '802.11an & bgn(2.4GHz & 5GHz)'. A large red 'VIA' watermark is visible in the background of the screenshot.

YAK we connect CyberExpert User: harry Logout

AC AP Client Log

Client

- Client List
- Client Device List
- Client Number Chart

Real-Time History

Wireless Clients	Wireless Clients
802.11an & bgn(2.4GHz & 5GHz)	Total
	802.11an(5GHz)
	802.11bgn(2.4GHz)
	802.11an & bgn(2.4GHz & 5GHz)

5-4. Log

“網路管理專家”可將 AC 狀態呈報日誌紀錄，可選擇 AC 日誌、AP/Client 日誌。

AC 日誌

CyberExpert User: harry [Logout](#)

AC AP Client **Log**

AC Log
AP/Client Log

Select one single day: December 2014


Select the time range: From: To: [Apply](#)

Show entries Search:

User Name	IP Address	Time	Log Info
user	192.168.1.2	2014-12-05 12:27:16	NetFlex connected
user	192.168.1.2	2014-12-05 12:29:24	NetFlex connected

Showing 1 to 2 of 2 entries Previous **1** Next

AP/Client 日誌


CyberExpert
User: harry [Logout](#)

[AC](#)
[AP](#)
[Client](#)
[Log](#)

[AC Log](#)
[AP/Client Log](#)

Select one single day:

December 2014

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Select the time range:

From:
To:

Show entries

Search:

Time	MAC	Message	EventID
2014-12-05 16:07:39	68:df:dd:14:c0:d5	IEEE 802.11gn client 68:df:dd:14:c0:d5 connect NMS_8F at Ap 192.168.0.252 NMS_8F channel 11	3
2014-12-05 15:55:37	b8:a3:86:02:09:19	IEEE 802.11gn client b8:a3:86:02:09:19 connect FORNMS at Ap 192.168.0.251 FORNMS channel 3	3
2014-12-05 15:37:40	68:df:dd:14:c0:d5	IEEE 802.11gn client 68:df:dd:14:c0:d5 connect NMS_8F at Ap 192.168.0.252 NMS_8F channel 11	3
2014-12-05 15:21:27	00:12:7b:81:20:37	WTP IP 192.168.2.107 MAC 00:12:7b:81:20:37 joined	1
2014-12-05 15:04:39	68:df:dd:14:c0:d5	IEEE 802.11gn client 68:df:dd:14:c0:d5 connect NMS_8F at Ap 192.168.0.252 NMS_8F channel 11	3
2014-12-05 14:30:19	78:d6:f0:2f:59:7e	IEEE 802.11gn client 78:d6:f0:2f:59:7e connect FORNMS at Ap 192.168.0.251 FORNMS channel 3	3
2014-12-05 14:17:10	78:d6:f0:2f:59:7e	IEEE 802.11gn client 78:d6:f0:2f:59:7e connect FORNMS at Ap 192.168.0.251 FORNMS channel 3	3
2014-12-05 14:11:17	78:d6:f0:2f:59:7e	IEEE 802.11gn client 78:d6:f0:2f:59:7e timeout leave FORNMS at Ap 192.168.0.251 FORNMS channel 3	9
2014-12-05 14:04:43	78:d6:f0:2f:59:7e	IEEE 802.11gn client 78:d6:f0:2f:59:7e connect FORNMS at Ap 192.168.0.251 FORNMS channel 3	3
2014-12-05 14:03:22	78:d6:f0:2f:59:7e	IEEE 802.11gn client 78:d6:f0:2f:59:7e connect FORNMS at Ap 192.168.0.251 FORNMS channel 3	3

Showing 1 to 10 of 172 entries

Previous

1 2 3 4 5 ... 18

Next

5-5. AC Setting

滑鼠點選 Device，再點選 IP Addr 的 [172.16.66.14](#) 是進入該台 AC Setting 網頁。



The screenshot shows the CyberExpert web interface. The top navigation bar includes the logo, the title "CyberExpert", the user name "User: harry", and a "Logout" link. Below the navigation bar is a menu with "Device", "Topology", "Log", "Account", "Settings", "Tools", and "About". The "Device" menu item is highlighted with a red dotted box. Below the menu is the "Device List" section. It includes a search bar and a table of devices. The table has columns for IP Addr, Device Type, Alias, MAC Addr, Eth. Port RJ45/Fiber, Last Update, Alive, Setting, and Delete. The device with IP 172.16.66.14 is highlighted with a red dotted box, and its "Setting" button is also highlighted with a red dotted box. A large red arrow points downwards from the "Setting" button to the next page.

IP Addr	Device Type	Alias	MAC Addr	Eth. Port RJ45/Fiber	Last Update	Alive	Setting	Delete
172.016.066.009	L2switch	C區 自強大樓3F 儲藏室	00:12:7B:72:0A:01	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.010	L2switch	D區 中正大樓3F 餐二純儲藏室	00:12:7B:72:03:21	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.011	L2switch	D區 中正大樓3F 餐二純儲藏室	00:12:7B:72:03:41	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.012	L2switch	E區 中正大樓3F 職訓儲藏室	00:12:7B:72:03:C1	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.013	L2switch	E區 中正大樓3F 職訓儲藏室	00:12:7B:72:03:61	24/4	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>
172.016.066.014	wlanAC	VIA Wireless Controller VNT5801	7E:1A:B4:14:DB:BD	4/0	2014-12-05 14:21:14	✓	Setting	<input type="checkbox"/>

Device: 172.16.66.14 setting

Topology	Port status	AC Trap Setting	Other
----------	-------------	-----------------	-------

Port	Manual	IP
1	<input type="checkbox"/>	-----NONE----- ▾
2	<input type="checkbox"/>	-----NONE----- ▾
3	<input type="checkbox"/>	-----NONE----- ▾
4	<input type="checkbox"/>	-----NONE----- ▾

Apply

AC 設定網頁有 Topology、Port status、AC Trap Setting、Other 等相關設備設定

Topology 設定網頁

Device: 172.16.66.14 setting

Topology	Port status	AC Trap Setting	Other
----------	-------------	-----------------	-------

Port	Manual	IP
1	<input type="checkbox"/>	-----NONE----- ▾
2	<input type="checkbox"/>	-----NONE----- ▾
3	<input type="checkbox"/>	-----NONE----- ▾
4	<input type="checkbox"/>	-----NONE----- ▾

Apply

“網路管理專家”可以自動偵測網路線路鏈接方式，並顯示各網口連接設備的 IP。

對於不能自動偵測網路線路鏈接方式的設備，可用滑鼠點選 Port Manual，手動設定這個 Port 鏈接設備的 IP。

Port status 設定網頁

Device: 192.168.0.250 setting

Topology Port status AC Trap Setting Other

Port	Interface	Admin	Link	AutoNego		Speed	Duplex	FlowControl	
				Support	Status			Ability	Status
1	--	Up	Up	--	Enabled	1G	unknown	Disable	Off
2	--	Up	Up	--	Enabled	1G	unknown	Disable	Off
3	--	Up	Down	--	Enabled	0M	unknown	Disable	Off
4	Fiber	Up	Down	--	Enabled	0M	unknown	Disable	Off

Apply

滑鼠點選 Up 下拉選單可設定埠的開關(Up or Down)，選完再按 Set。

滑鼠點選 Enabled 下拉選單可設定埠 開啓或關閉自動協商(AutoNego Enabled or Disabled)，選完再按 Set。

AC Trap Setting 設定網頁

Device: 192.168.0.250 setting

	Email	SMS
AP Join	<input type="checkbox"/> network1@gmail.com,network2@gmail.com,	<input type="checkbox"/> 0900000000,0900000001,
AP Leave	<input type="checkbox"/> network1@gmail.com,network2@gmail.com,	<input type="checkbox"/> 0900000000,0900000001,
AC WarmStart	<input type="checkbox"/> network1@gmail.com,network2@gmail.com,	<input type="checkbox"/> 0900000000,0900000001,
AC ColdStart	<input type="checkbox"/> network1@gmail.com,network2@gmail.com,	<input type="checkbox"/> 0900000000,0900000001,

Apply

滑鼠點選 AC Trap Setting，可用來設定及改變異常(Alarm)通知對象，目前提供 AP Join、AP Leave、AC WarmStart、AC ColdStart 等異常通知，可輸入發送對象的電子郵件(Email)或是簡訊(SMS)，每一封電子郵件或是簡訊間隔是以“,”隔開，及選擇欲發送電子郵件或是簡訊，設定完成後，滑鼠點選 Apply。

Other 設定網頁

Device: 192.168.0.250 setting

Topology Port status AC Trap Setting **Other**

Alias setting: VIA Wireless Controller VNT5801
set

Mac refresh: refresh

Snmp Version: V2c ▾

Snmp Timeout: 2sec ▾

Read Community: public

Write Community: private

Security Name:

Security Level: noAuthNoPriv ▾

Authentication Protocol: MD5 ▾

Authentication Password:

Privacy Protocol: DES ▾

Privacy Password:

set

使用者可設定網路設備別名、Read Community、Write Community、SNMP Timeout、及 SNMP V3 參數，設定完再按 Set

6. “網路管理專家”狀態呈報日誌紀錄

6-1. “網路管理專家”日誌

“網路管理專家”可將網路設備狀態呈報日誌紀錄，可選擇“網路管理專家”日誌

“網路管理專家”日誌

Log Viewer

Show entries Search:

Time	Level	Message
2014-06-16 17:29:04.198	INFO	Account admin login.
2014-06-16 17:21:24.68	INFO	Account admin logout.
2014-06-16 14:49:17.231	INFO	Device IP = 192.168.1.1 Link View Read Device Success
2014-06-16 10:56:28.549	INFO	Device IP = 192.168.1.1 Link View Read Device Success
2014-06-16 10:42:35.662	INFO	Device IP = 172.16.66.1 Link View Read Device Success
2014-06-16 10:37:53.261	INFO	Device IP = 172.16.66.4 POE Status Interface Read Device Success
2014-06-16 10:37:52.804	INFO	Device IP = 172.16.66.4 Link View Read Device Success
2014-06-16 10:36:18.169	INFO	Device IP = 172.16.66.4 Port Status Read Device Success
2014-06-16 10:36:16.027	INFO	Device IP = 172.16.66.4 Link View Read Device Success
2014-06-16 10:36:12.181	WARN	Device IP = 172.16.66.4 VLAN Status Global Port = 2 4 5 7 Read Failed

Showing 1 to 10 of 500 entries Previous **1** 2 3 4 5 ... 50 Next

6-2. “網路管理專家”異常日誌

“網路管理專家”異常日誌

Alarm Viewer

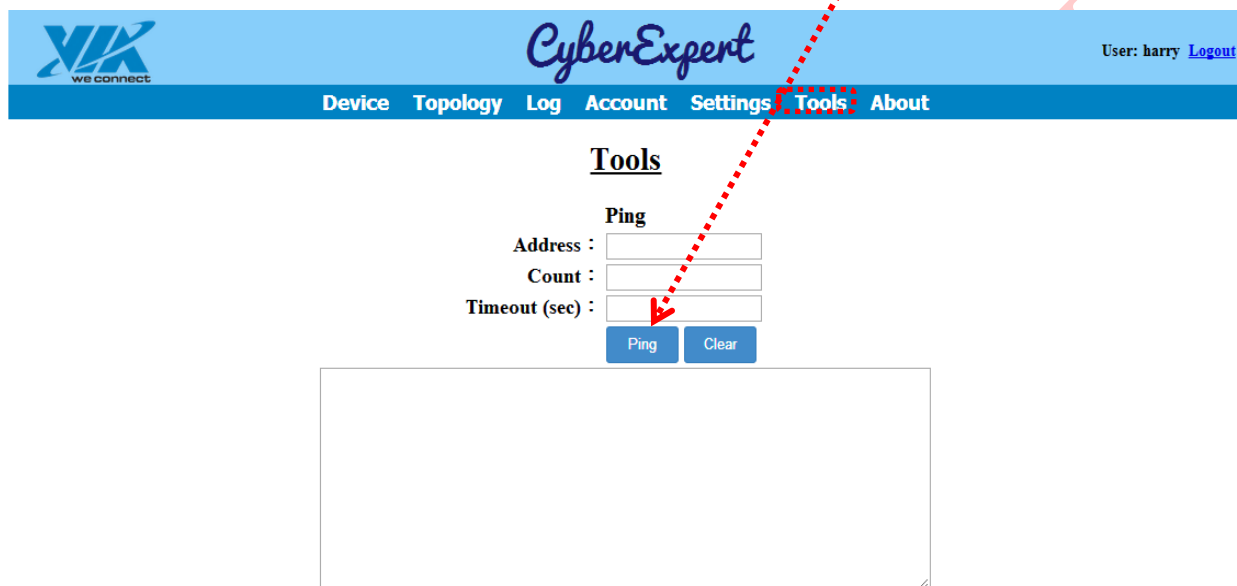
Show entries Search:

Time	Level	Message
2014-10-16 11:56:15.81	ERROR	VIA CyberExpert Start Up
2014-10-16 11:54:19.408	ERROR	VIA CyberExpert Shut Down
2014-10-15 09:50:05.673	ERROR	Device IP = 172.16.66.9 has disconnected over 30 minutes.
2014-10-15 09:21:51.634	ERROR	VIA CyberExpert Start Up
2014-10-15 09:21:32.946	ERROR	VIA CyberExpert Shut Down
2014-10-14 20:00:05.834	ERROR	Device IP = 172.16.66.9 has disconnected over 30 minutes.
2014-10-14 19:36:44.49	ERROR	VIA CyberExpert Start Up
2014-10-14 19:34:55.649	ERROR	VIA CyberExpert Shut Down
2014-10-14 16:20:05.06	ERROR	Device IP = 172.16.66.9 has disconnected over 30 minutes.
2014-10-14 15:52:15.249	ERROR	VIA CyberExpert Start Up

Showing 1 to 10 of 500 entries Previous **1** 2 3 4 5 ... 50 Next

7. “網路管理專家”工具

“網路管理專家”提供 ping 工具，對於網路異常的網路設備，可以去 ping 它，先設定網路設備的 IP 位址、ping 的次數、及 Timeout 時間，設定完成後按 Ping。



The screenshot shows the CyberExpert web application interface. At the top, there is a blue header bar with the 'YX we connect' logo on the left, the 'CyberExpert' logo in the center, and 'User: harry Logout' on the right. Below the header is a dark blue navigation bar with links: 'Device', 'Topology', 'Log', 'Account', 'Settings', 'Tools', and 'About'. The 'Tools' link is highlighted with a red dotted box. Below the navigation bar, the page title is 'Tools'. Underneath, there is a section titled 'Ping'. This section contains three input fields: 'Address :', 'Count :', and 'Timeout (sec) :'. Below these fields are two buttons: 'Ping' and 'Clear'. A red dotted line with an arrow originates from the 'Tools' menu item in the navigation bar and points directly to the 'Ping' button. Below the input fields and buttons is a large, empty rectangular box, likely for displaying the results of the ping command.

8. 關於”網路管理專家”

滑鼠點選 **About**，提供關於”網路管理專家”版本、電話、地址、E-Mail、及 CyberExpert “網路管理專家” 用戶使用指南。



9. 全球服務中心據點

原廠服務中心據點

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