CyberExpert “網路管理專家”

用戶使用指南

Revision 1.0.0

VIA TECHNOLOGIES, INC.

Copyright Notice:

Copyright © 2014 VIA Technologies Incorporated. All Rights Reserved. No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise without the prior written permission of VIA Technologies Incorporated. The material in this document is for information only and is subject to change without notice. VIA Technologies Incorporated reserves the right to make changes in the product design without reservation and without notice to its users.

Trademark Notices:

is a registered trademark of VIA Technologies, Incorporated.

All trademarks are the properties of their respective owners.

Disclaimer Notice:

No license is granted, implied or otherwise, under any patent or patent rights of VIA Technologies. VIA Technologies makes no warranties, implied or otherwise, in regard to this document and to the products described in this document. The information provided by this document is believed to be accurate and reliable as of the publication date of this document. However, VIA Technologies assumes no responsibility for any errors in this document. Furthermore, VIA Technologies assumes no responsibility for the use or misuse of the information in this document and for any patent infringements that may arise from the use of this document. The information and product specifications within this document are subject to change at any time, without notice and without obligation to notify any person of such change.

Offices:

VIA Technologies Incorporated
Taiwan Office:
1st Floor, No. 531
Zhongzheng Rd., Xindian Dist.
New Taipei City 231, Taiwan
Tel: (886-2) 2218-5452
Fax: (886-2) 2218-5453
Home page: http://www.via.com.tw

VIA Technologies Incorporated
USA Office:
940 Mission Court
Fremont, CA 94539
USA
Tel: (510) 683-3300
Fax: (510) 683-3301 or (510) 687-4654
Home Page: http://www.viatech.com

VIA CONFIDENTIAL

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

VIA CONFIDENTIAL

CyberExpert “網路管理專家” 用戶使用指南目錄

1. “網路管理專家”網頁啓動 5

2. “網路管理專家”帳號設定 8

2-1. Account 8

..... 8

2-2. Settings 12

3. “網路管理專家”網路設備總覽 17

3-1. Device 17

3-2. Setting 20

3-3. 網路設備總結網頁 31

3-3-1. OverView *32*

3-3-2. Statistics *35*

3-3-3. VLAN *38*

4. “網路管理專家”網路拓譜圖 39

5. “網路管理專家”無線控制器 41

5-1. AC 41

5-2. AP 45

5-3. Clients 48

5-4. Log 51

5-5. AC Setting 53

6. “網路管理專家”狀態呈報日誌紀錄 58

6-1. “網路管理專家” 日誌 58

6-2. “網路管理專家”異常日誌 59

7. “網路管理專家”工具 60

8. 關於”網路管理專家” 61

VIA CONFIDENTIAL

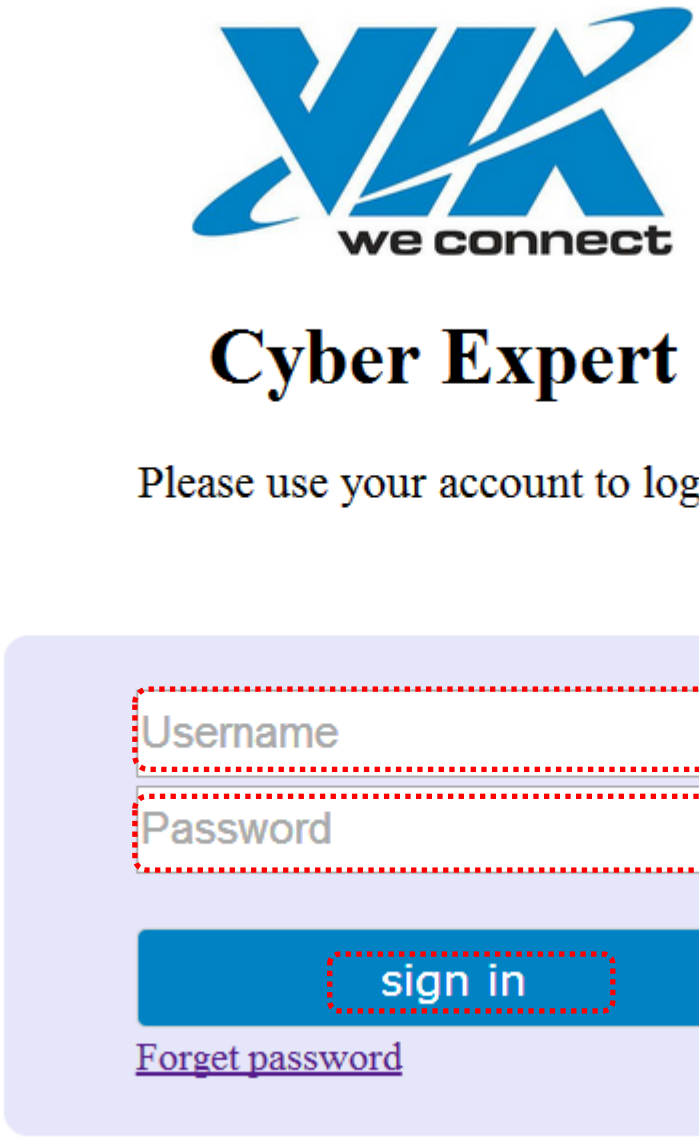
9. 全球服務中心據點.....62

VIA CONFIDENTIAL

1. “網路管理專家”網頁啓動

步驟 1.　先把”網路管理專家”電源啓動後，”網路管理專家”程式會自動啓動。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



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。

CyberExpert
User: harry Logout
Device Topology Log Account Settings Tools About
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 persion, e-mail and telephone.

2. “網路管理專家”帳號設定

2-1. Account

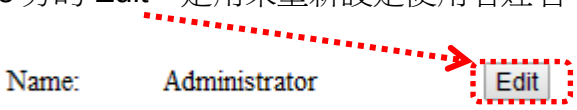
滑鼠點選 Account，是用來設定新增及編輯使用者帳號，第一次用 Admin 登入時，請輸入 Email 及 Phone Number。

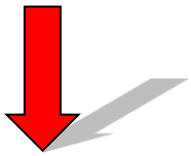
第一次用 Admin 登入時，請輸入 Email 及 Phone Number。

如需設定新增使用者帳號，滑鼠點選 Create NEW Account

VIA CONFIDENTIAL

滑鼠點選 Name 旁的 Edit，是用來重新設定使用者姓名





User Information

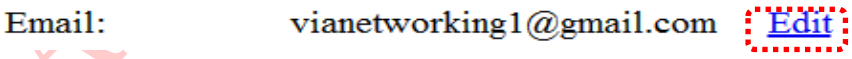
Username: admin

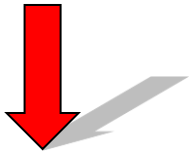
Name: Administrator

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





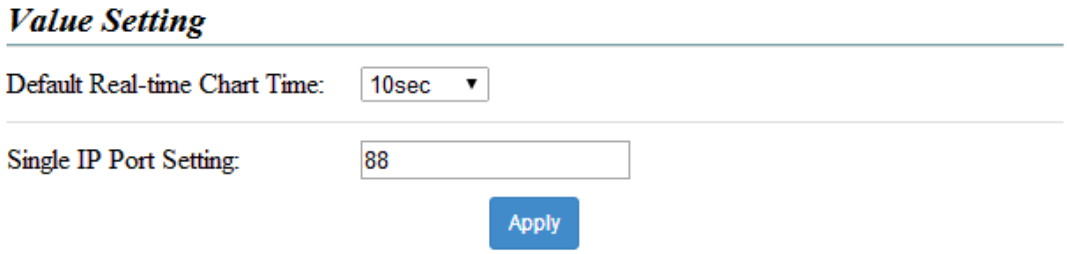
VIA CONFIDENTIAL

VIA CONFIDENTIAL

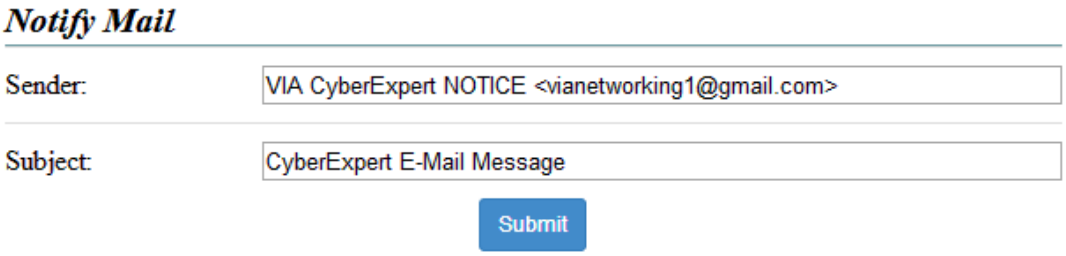
2-2. Settings

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。

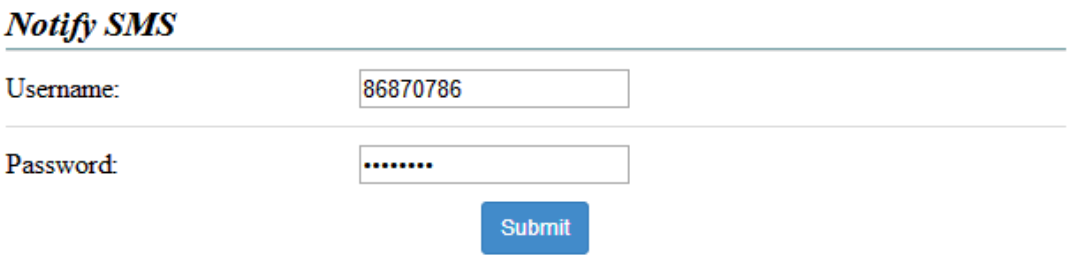
滑鼠點選 Settings，可用來設定及改變即時流量圖更新時間(Default Real-time Chart Time) 及 Single IP Port Setting，設定完成後，滑鼠點選 Apply。



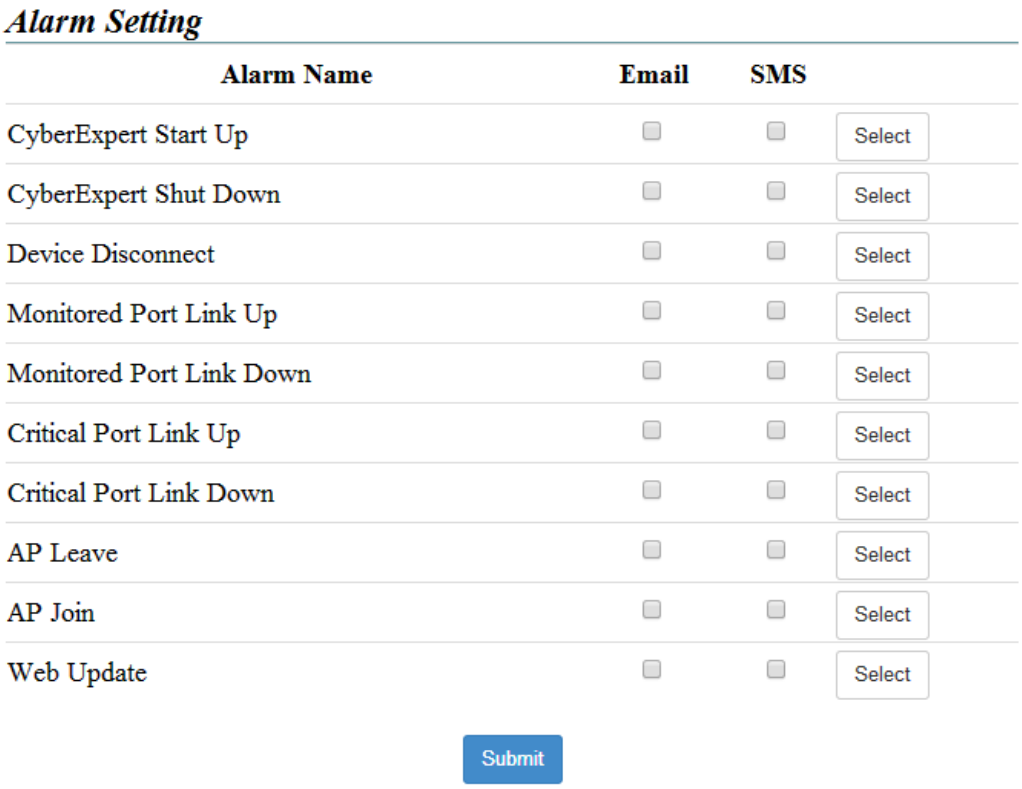
滑鼠點選 Settings，可用來設定及改變電子郵件寄件者，及相關的主旨內容，設定完成後，滑鼠點選 Submit。

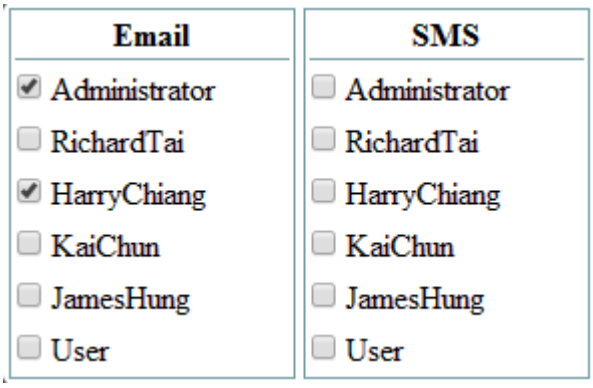


滑鼠點選 Settings，可用來設定及改變網路簡訊使用者帳號，及其密碼(目前是使用三竹簡訊)，設定完成後，滑鼠點選 Submit。

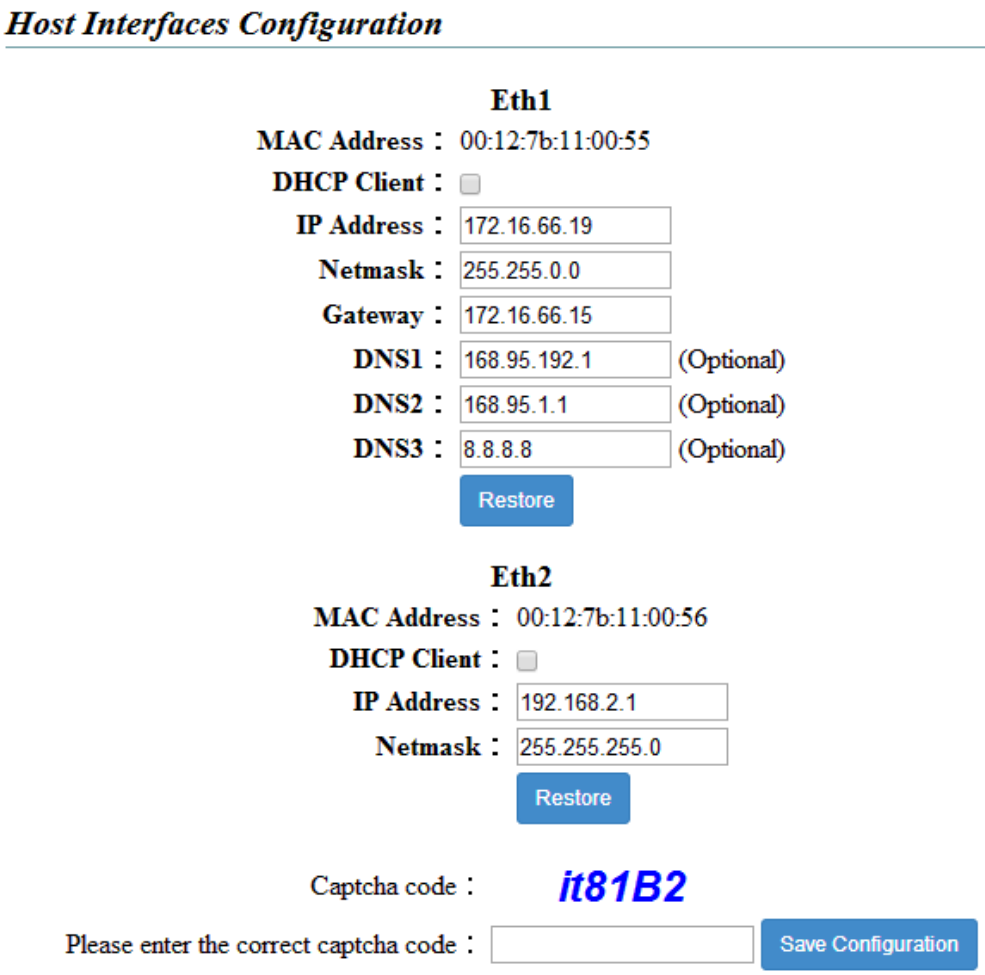


滑鼠點選 Settings，可用來設定及改變異常(Alarm)通知對象，可選擇發送對象的電子郵件(Email)或是簡訊(SMS)，及選擇(Select)欲發送對象，設定完成後，滑鼠點選 Submit。

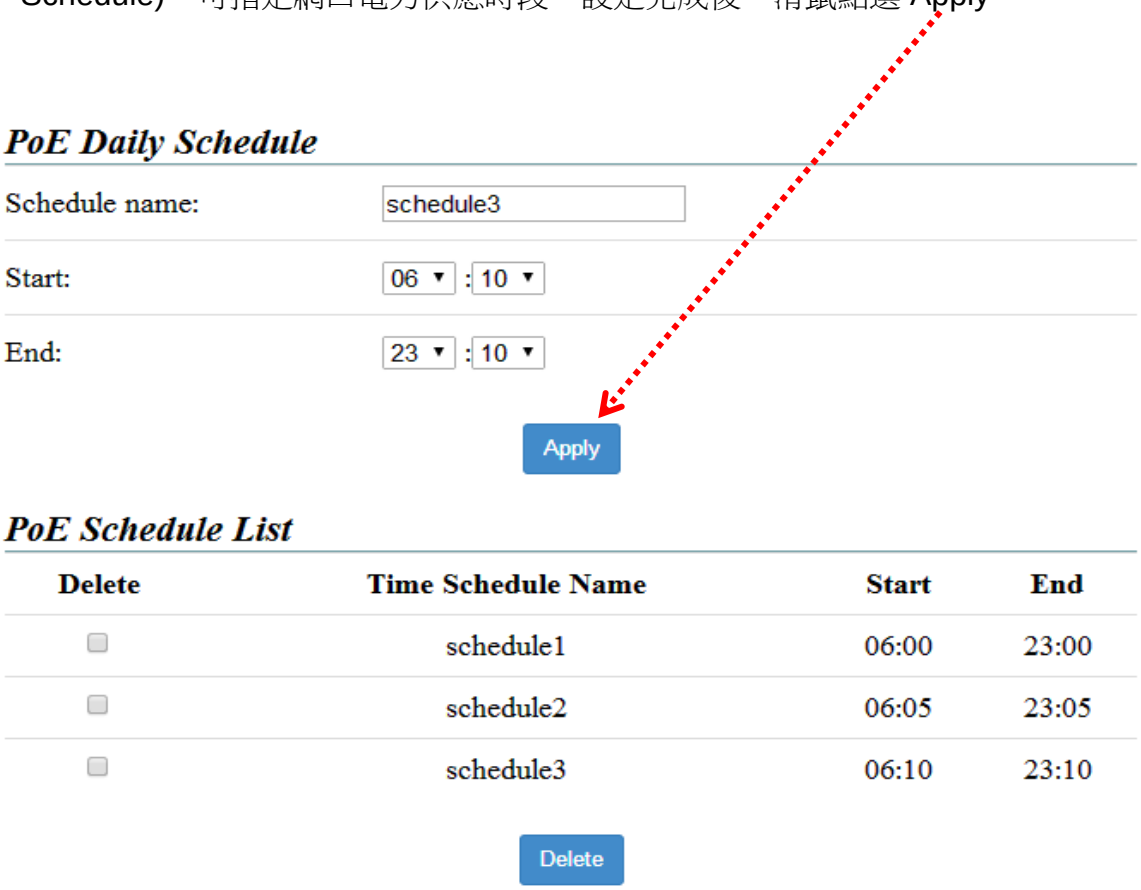




滑鼠點選 Settings，也可用來設定及改變主機網路介面設定(Host Interface Configuration)，設定完成後，輸入驗證碼後按 Save Configuration。



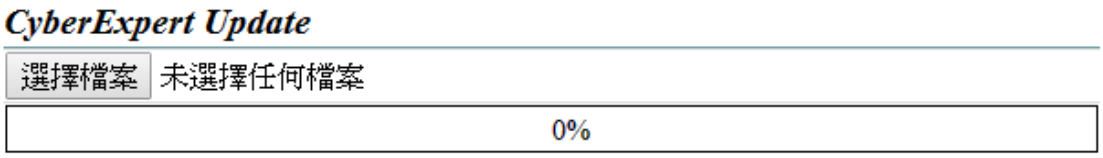
滑鼠點選 Settings，也可用來設定乙太網路供電排程(PoE Daily Schedule)，可指定網口電力供應時段，設定完成後，滑鼠點選 Apply。



VIA C

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。

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。

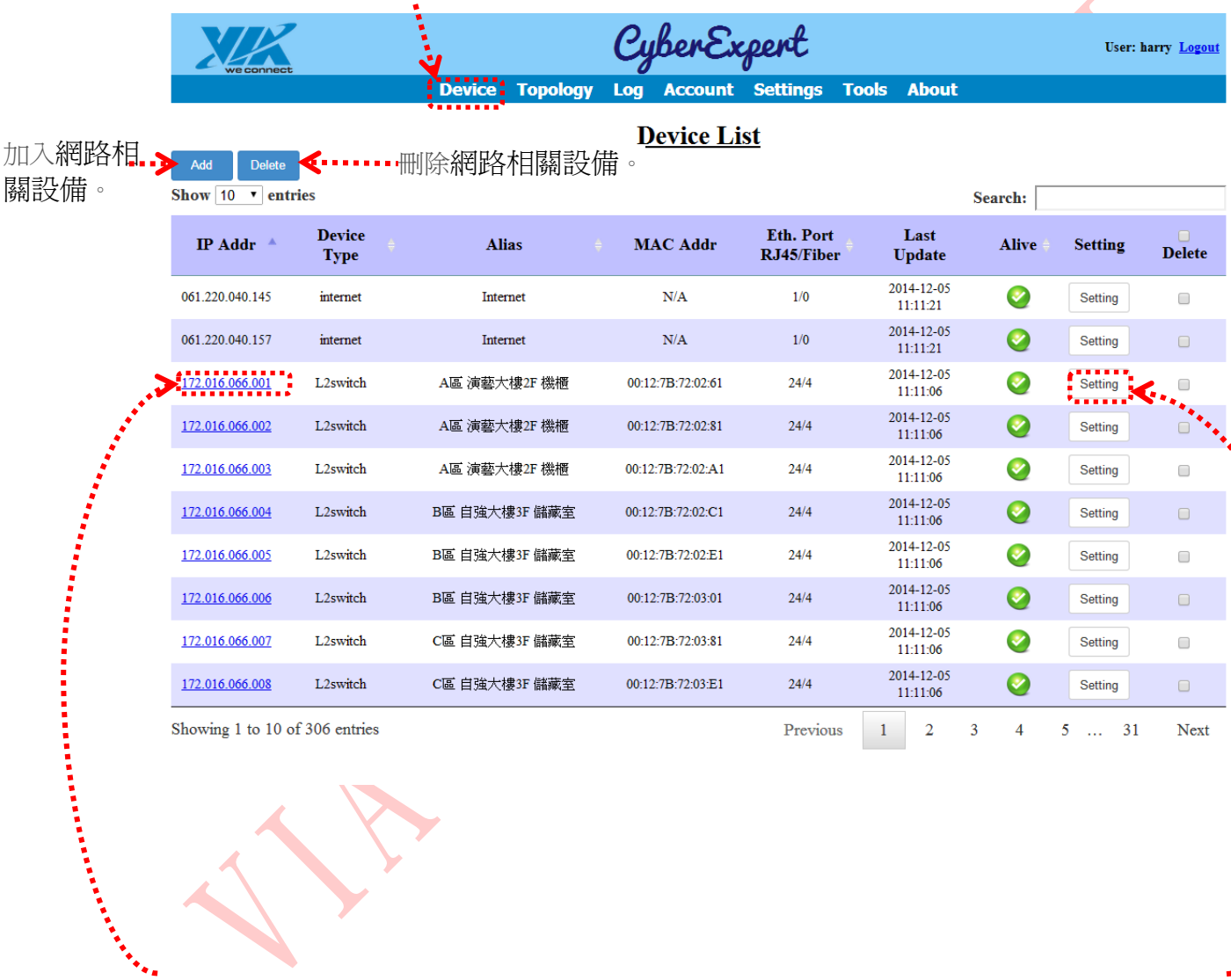


CONFI

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。



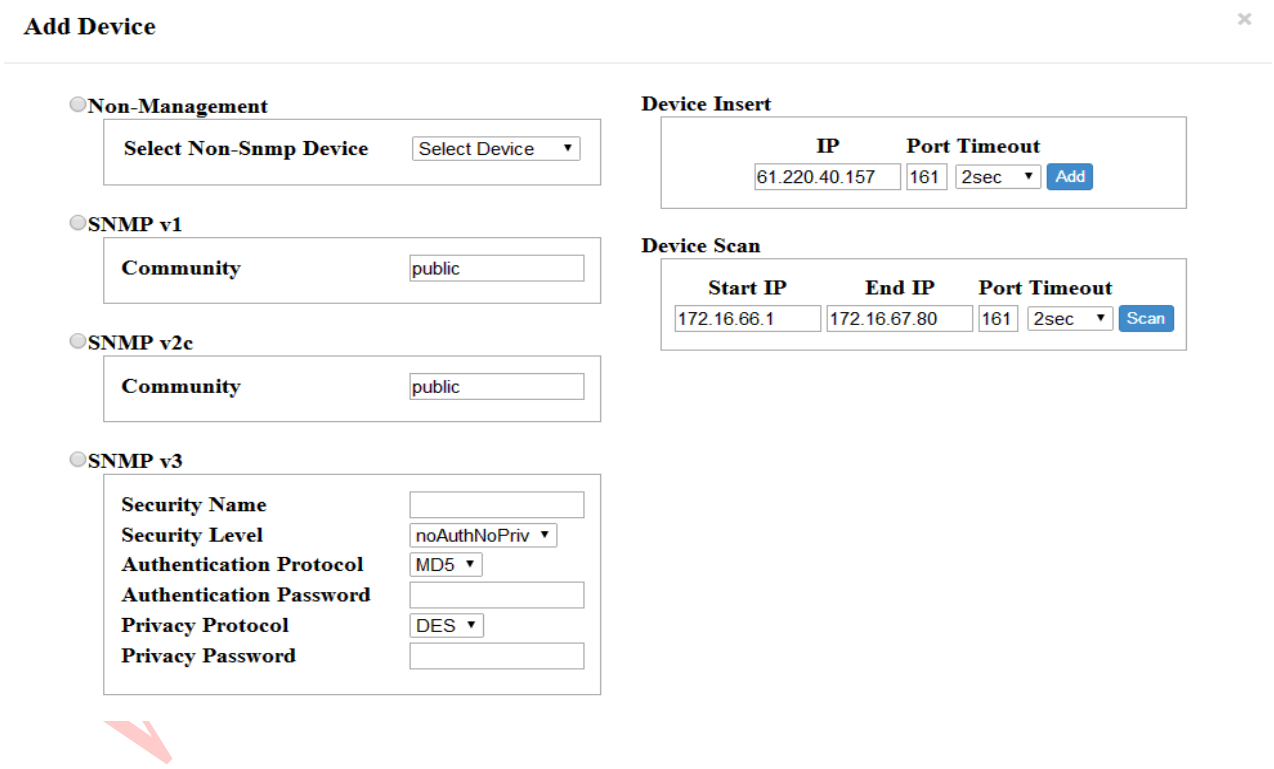
滑鼠點選 IP Addr 的 Device 是進入該台網路設備總結網頁

滑鼠點選 Setting 是進入該台網路設備 設定網頁

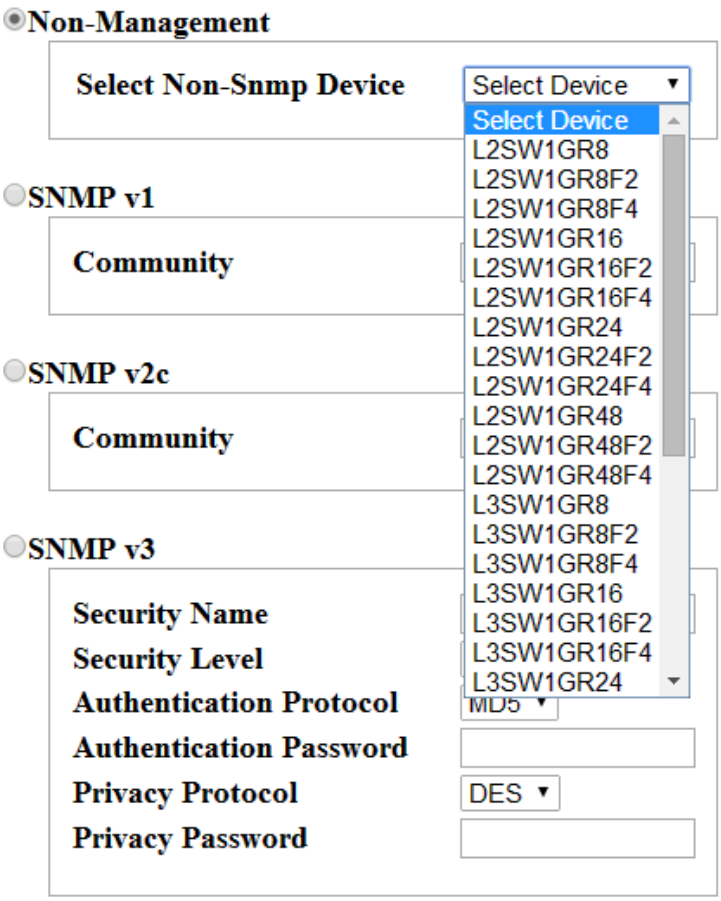
滑鼠點選 Add，是用來新增網路相關設備(例如:L2 、L3 交換器、防火牆等)，網路管理專家可以自動網路搜尋網路相關設備。

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。



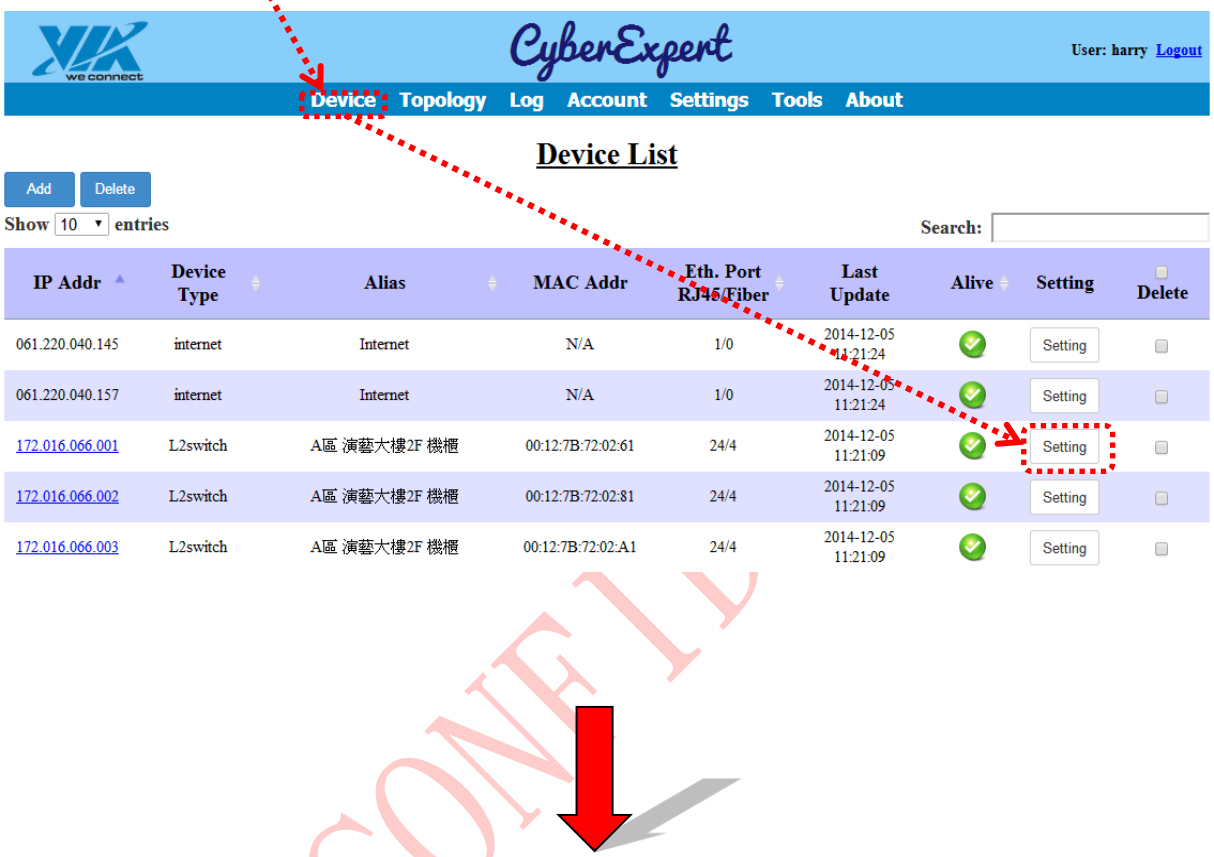
對於不支持 SNMP 的網路相關設備，需勾選 Non-Management ，以手動方式加入，加入設備的種類有:L2 Switch、L3 Switch、AC、AP、Firewall、Server、PC、Internet。



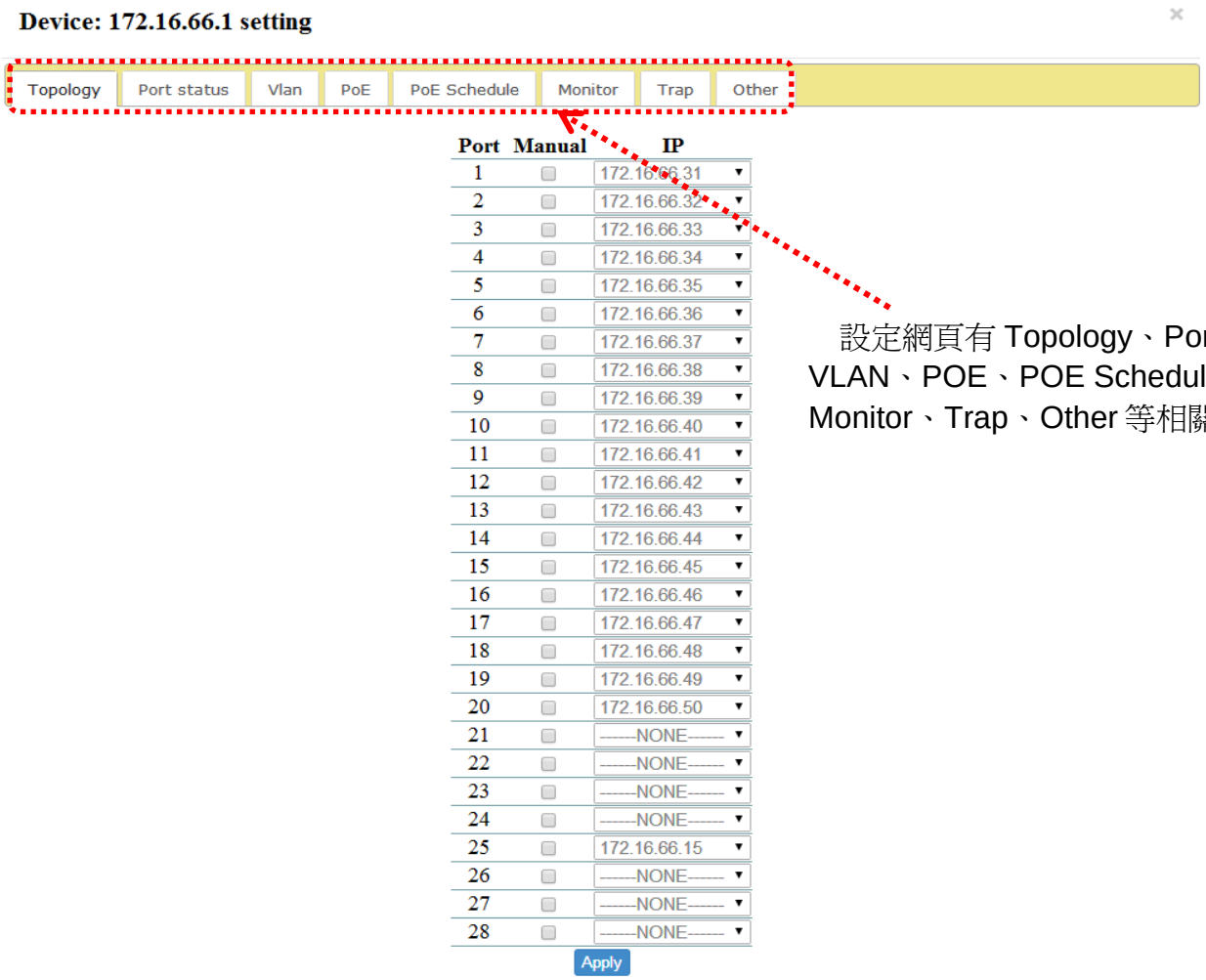
VIA
NTIAL

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



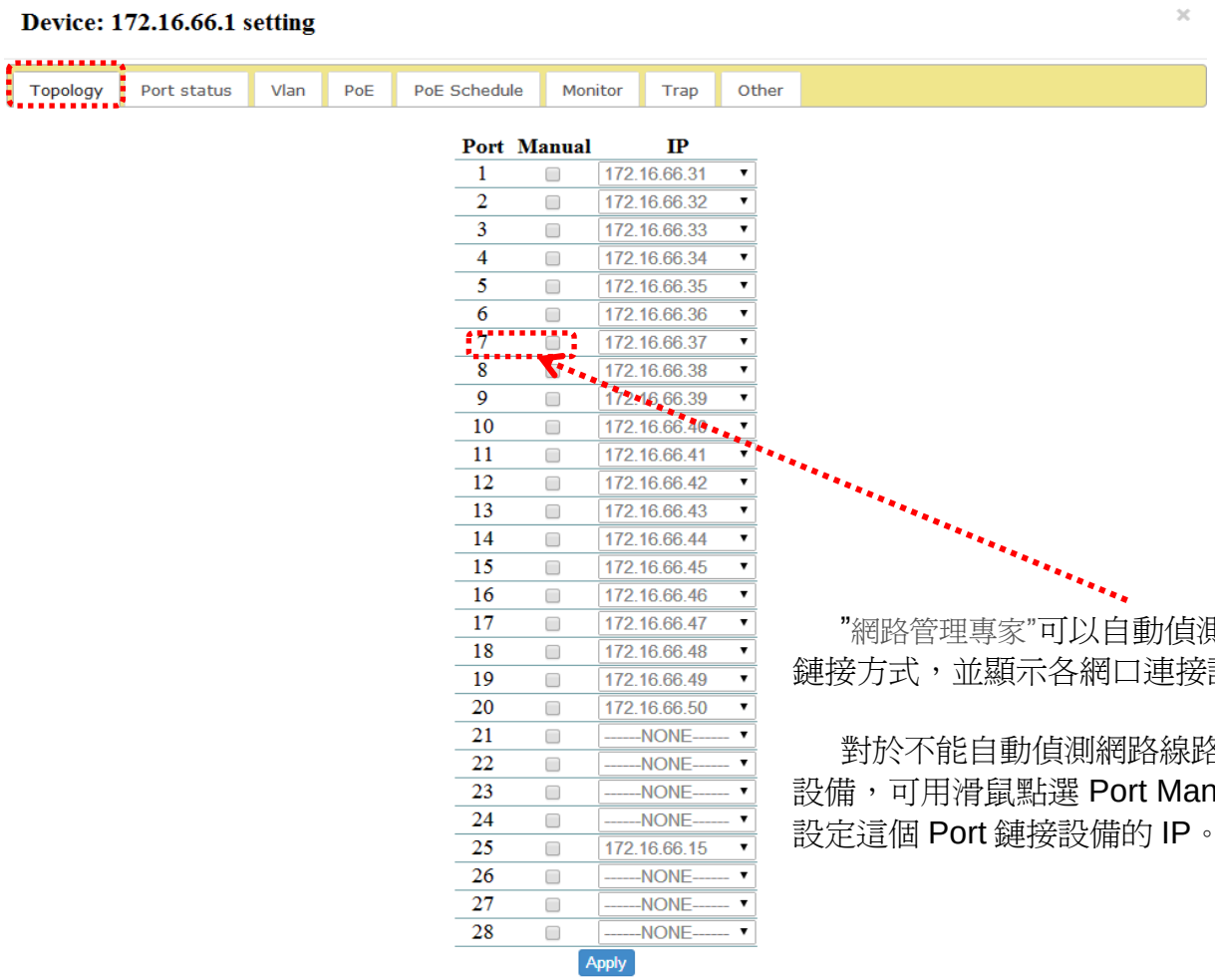
VIA CONFI



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

VIA C

Topology 設定網頁

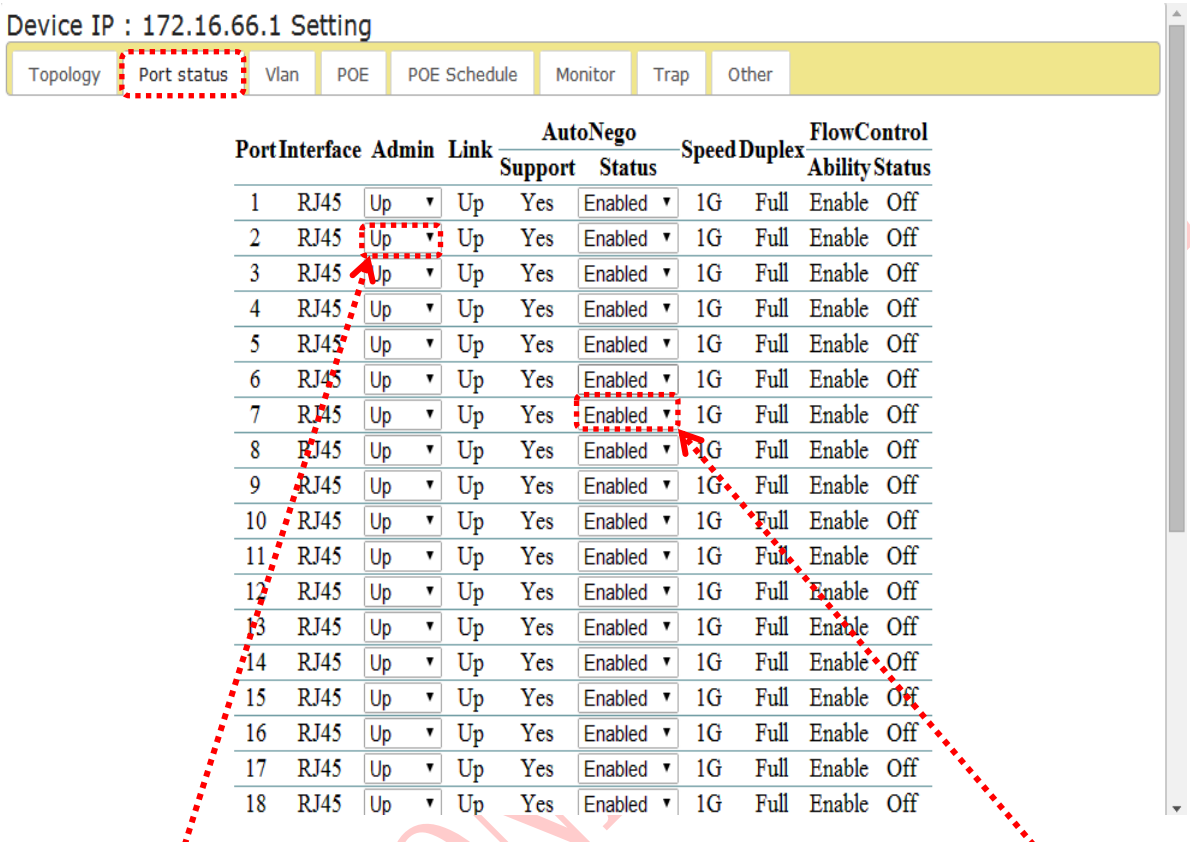


”網路管理專家”可以自動偵測網路線路鏈接方式，並顯示各網口連接設備的 IP。

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。

VIA

Port status 設定網頁



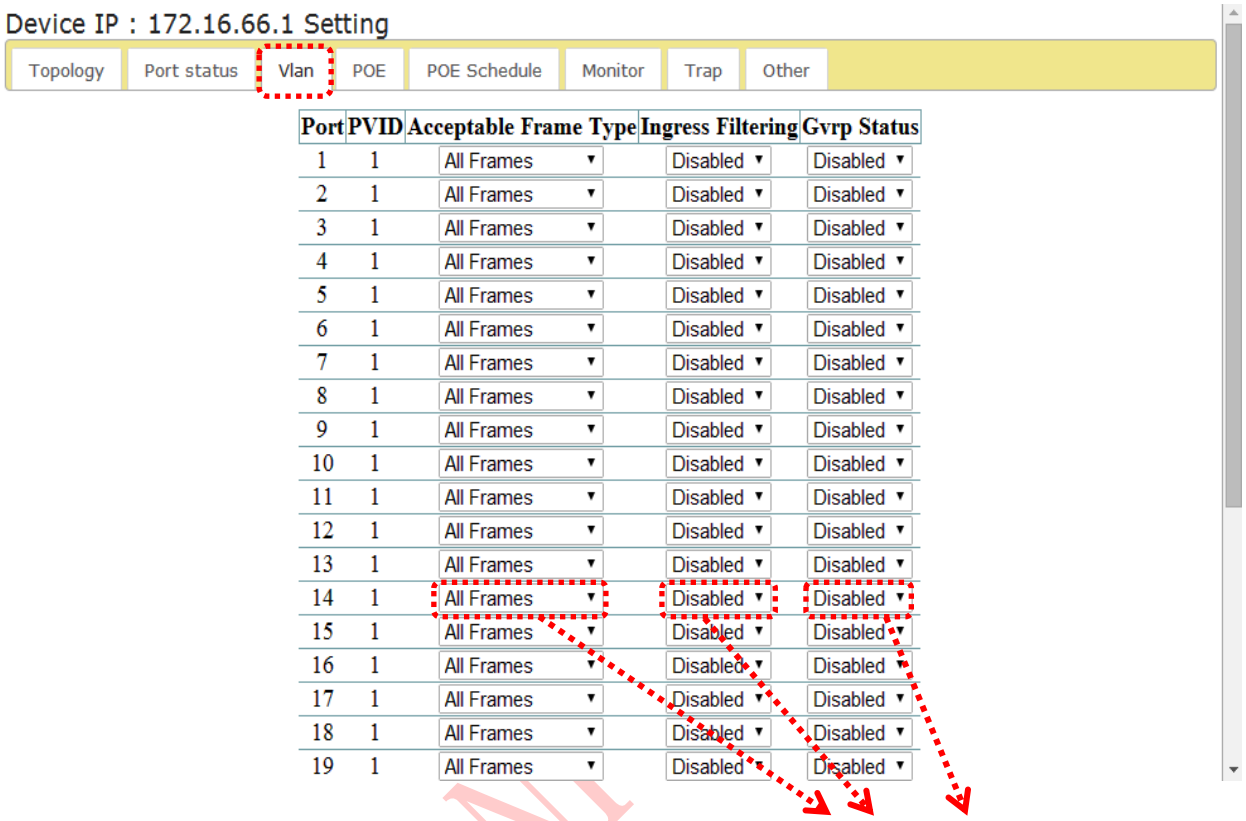
Port	Interface	Admin	Link	AutoNego		Speed	Duplex	FlowControl	
				Support	Status			Ability	Status
1	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
2	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
3	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
4	RJ45	Up	Up	Yes	Enabled	1G	Full	Enable	Off
5	RJ45	Up	Up	Yes	Enabled	1G	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。

VIA CONSOLE

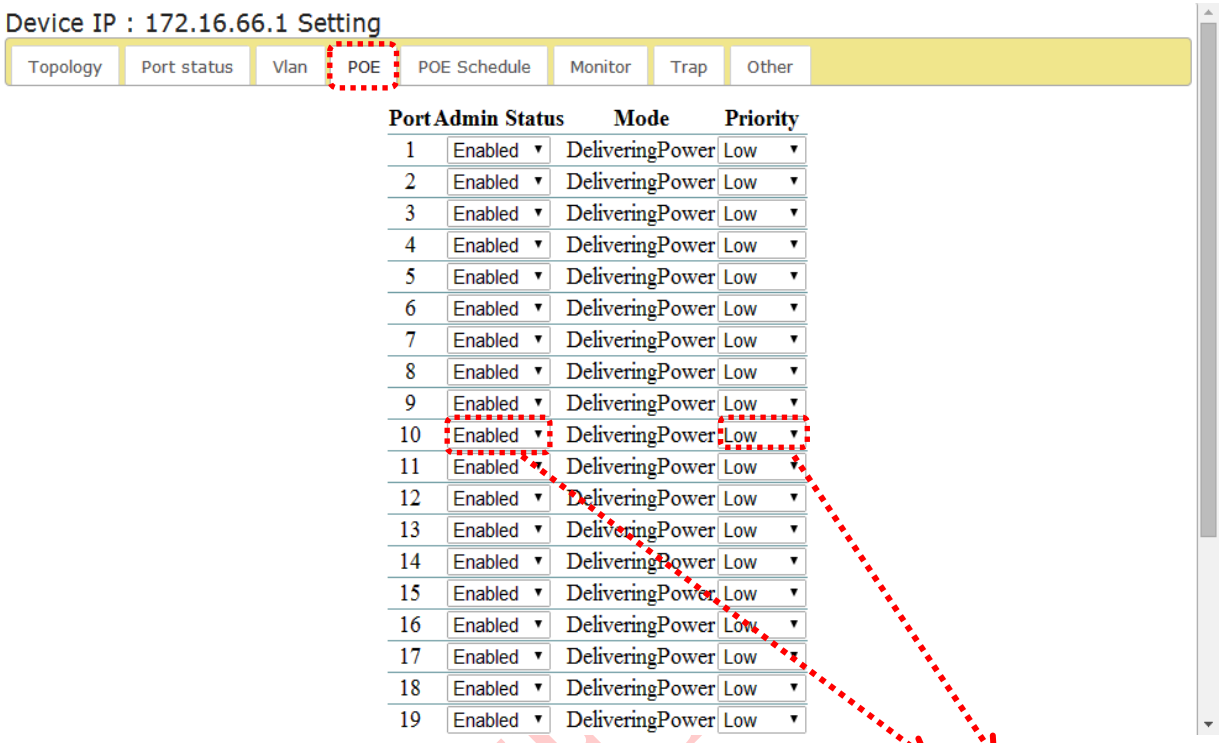
VLAN 設定網頁



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

VIA CONF

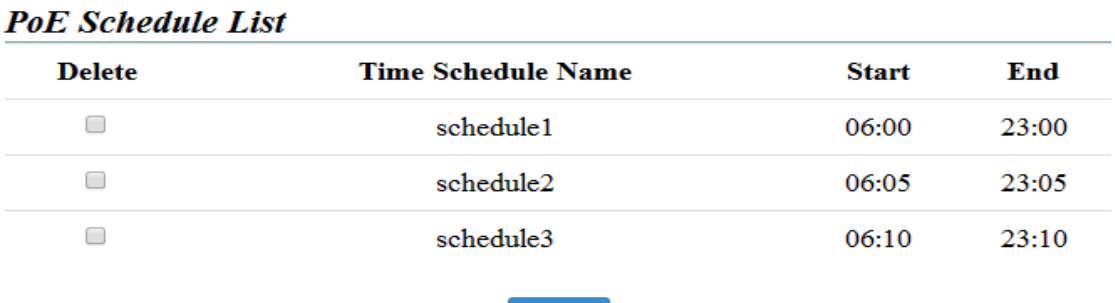
POE 設定網頁



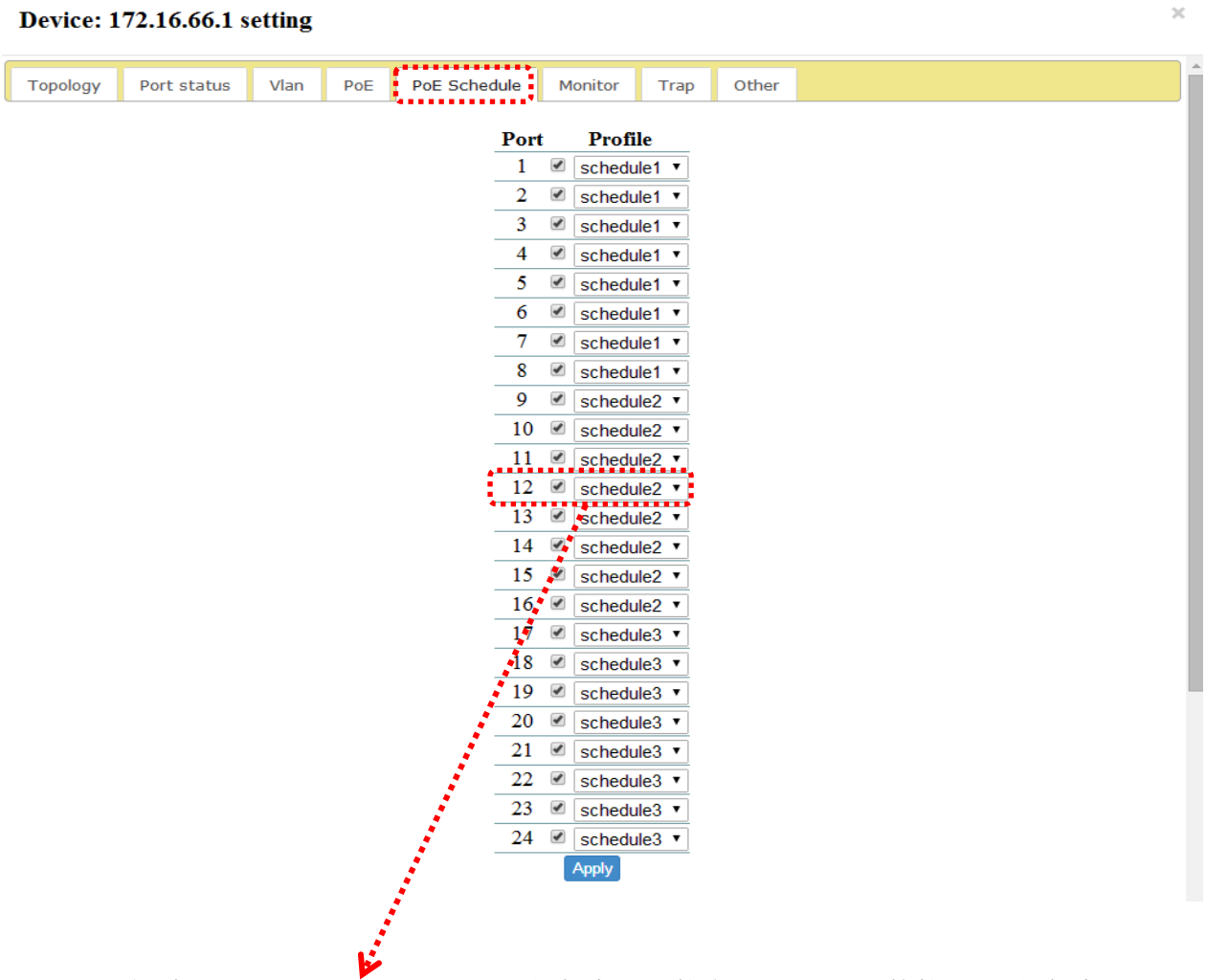
滑鼠點選下拉選單可設定埠 PoE Interface 狀態，選完再按 Set。

VIA CONF

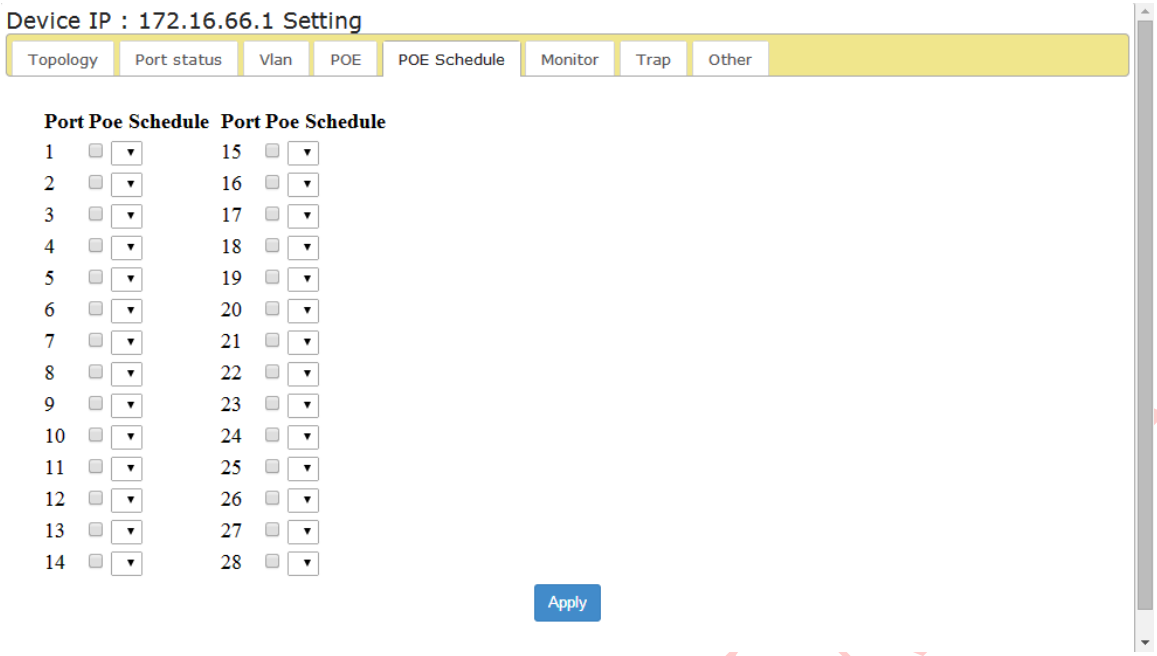
POE Schedule 設定網頁



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。

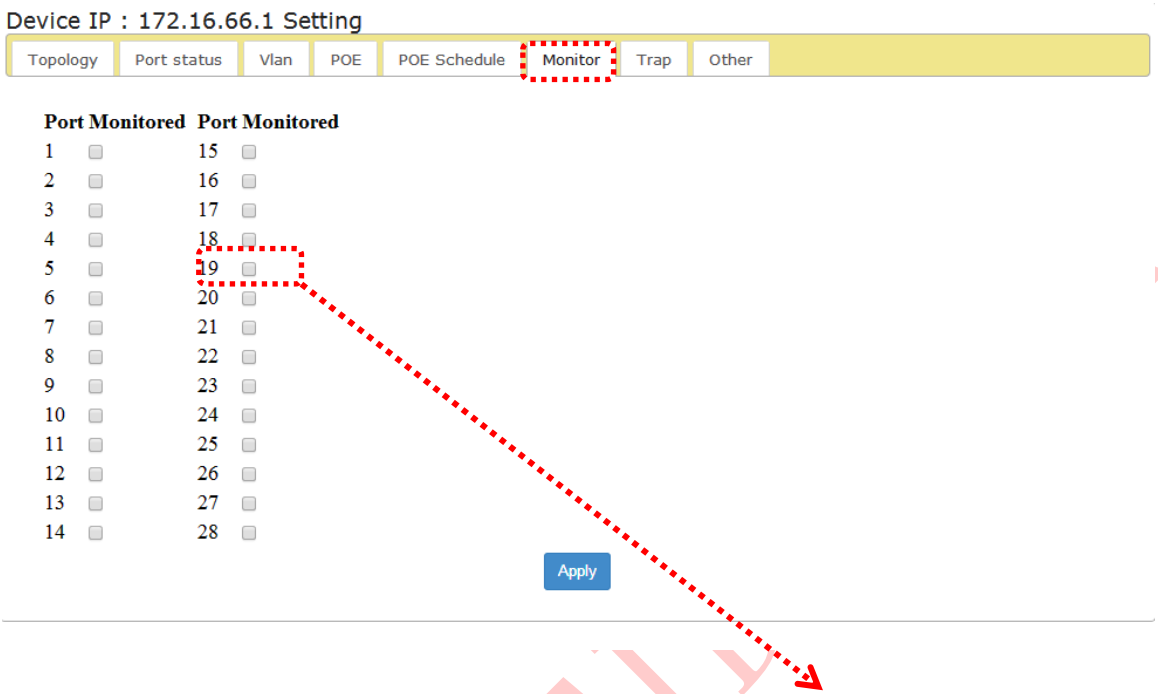


滑鼠點選 Port PoE Schedule 可設定埠 PoE 排程(Schedule)狀態，再設定埠 PoE 排程之前，請參考 P.15 頁，先設定乙太網路供電排程(PoE Daily Schedule)，設定完成後，選完再按 Apply。


Device IP : 172.16.66.1 Setting
Topology
Port status
Vlan
POE
POE Schedule
Monitor
Trap
Other
Port Poe Schedule
Port Poe Schedule
1
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
Apply

VIA CONFIDE

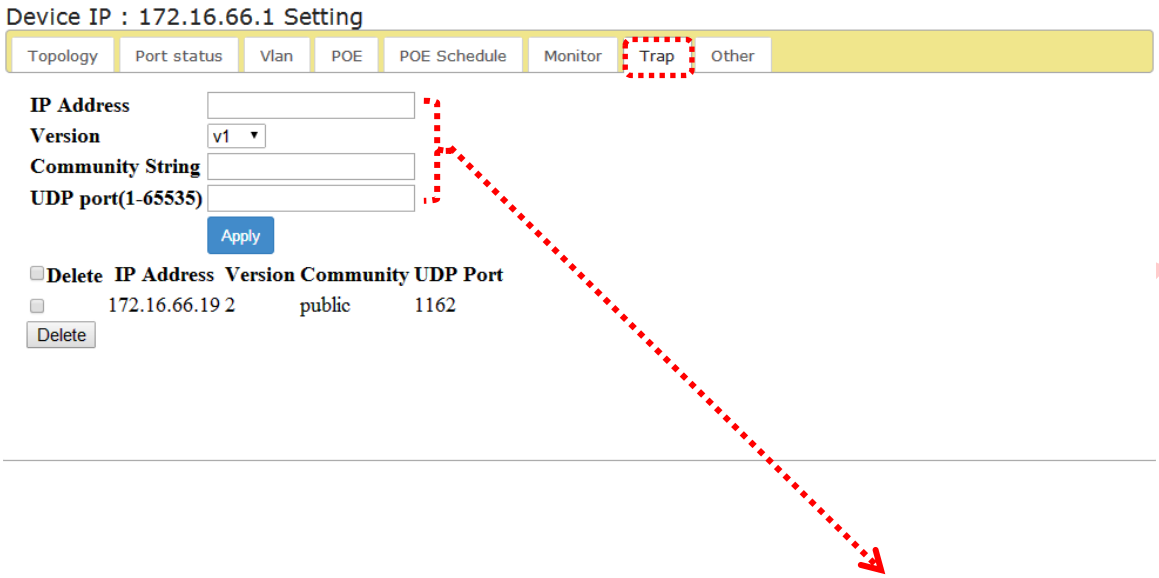
Monitor 設定網頁



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。

VIA CONFIDENTIAL

Trap 設定網頁

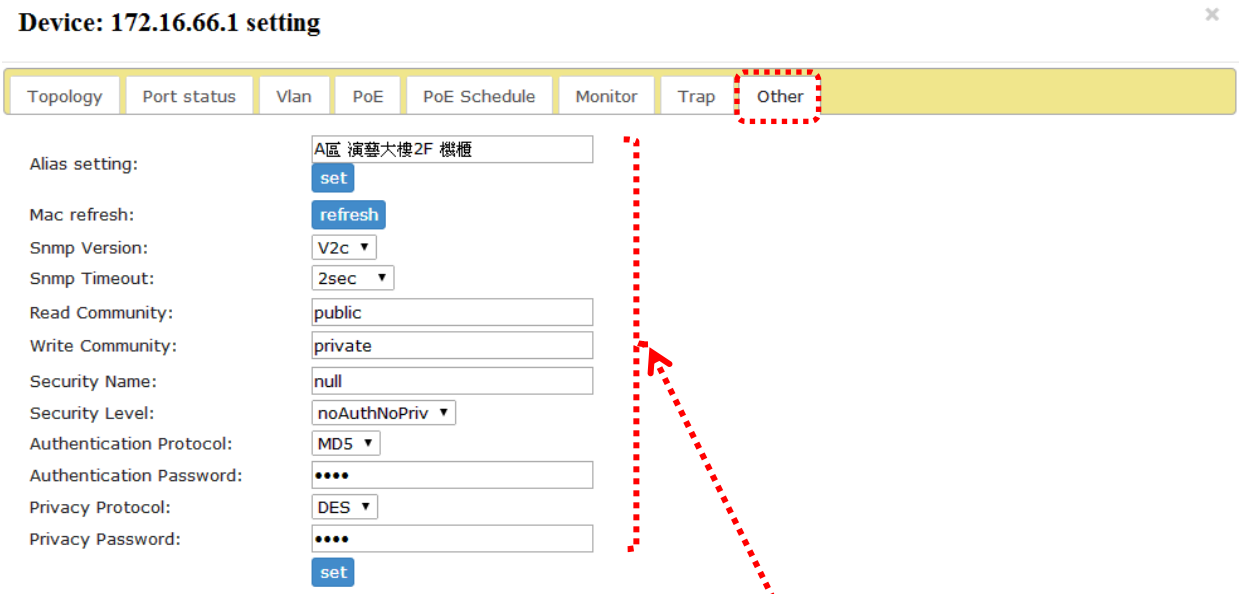


滑鼠點選 Trap 可設定 SNMP Trap Server 狀態，可設定 SNMP Trap 要發送 Server IP、Version、Community String、UDP Port 選完再按 Apply 設定。

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

VIA CONFIDENTIAL

Other 設定網頁

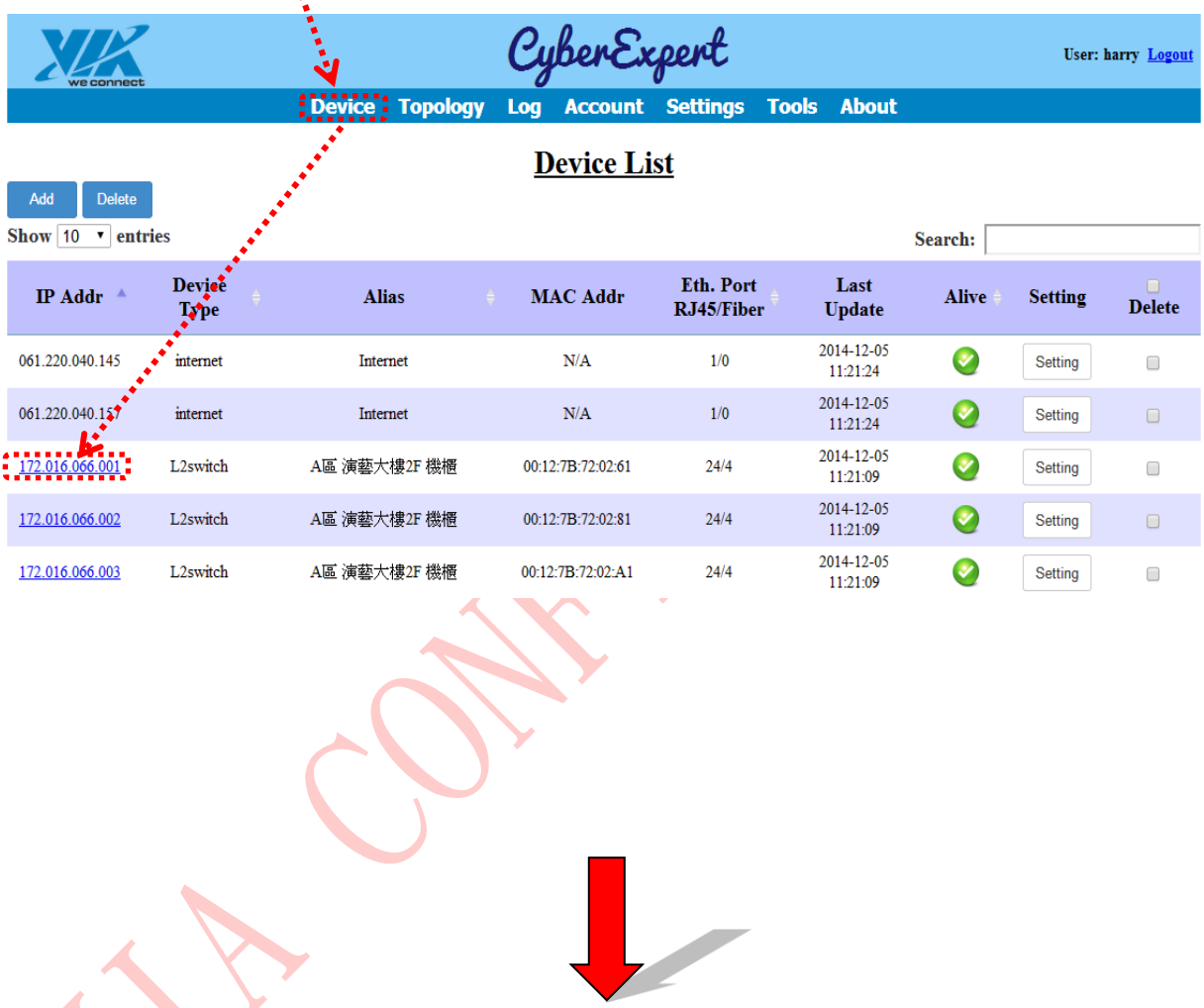


使用者可設定網路設備別名、Read Community、Write Community、SNMP Timeout、及 SNMP V3 參數，設定完再按 Set

VIA CONFIDENTIAL

3-3. 網路設備總結網頁

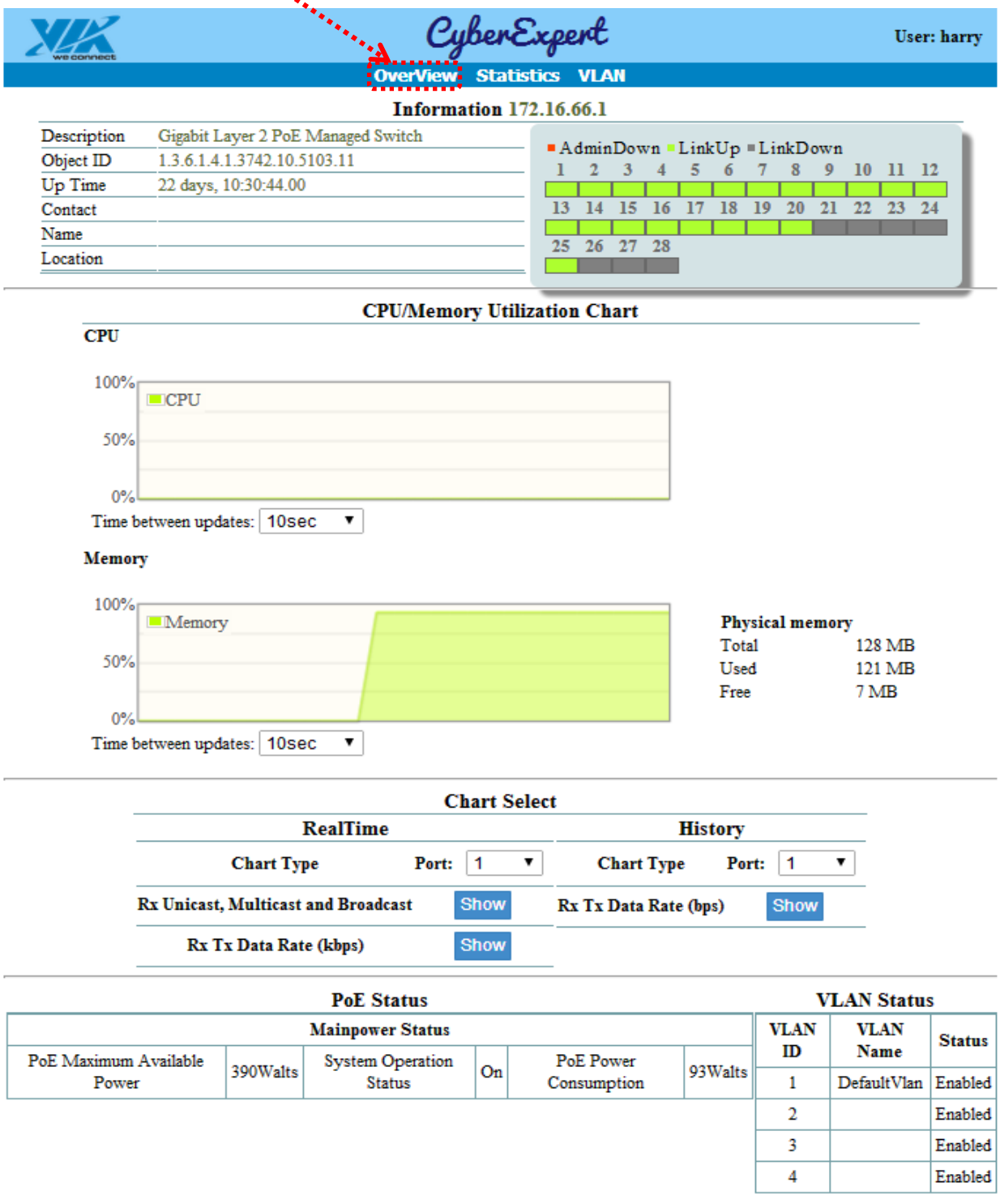
滑鼠點選 Device，再點選 IP Addr 的 172.16.66.1 是進入該台網路設備總結網頁



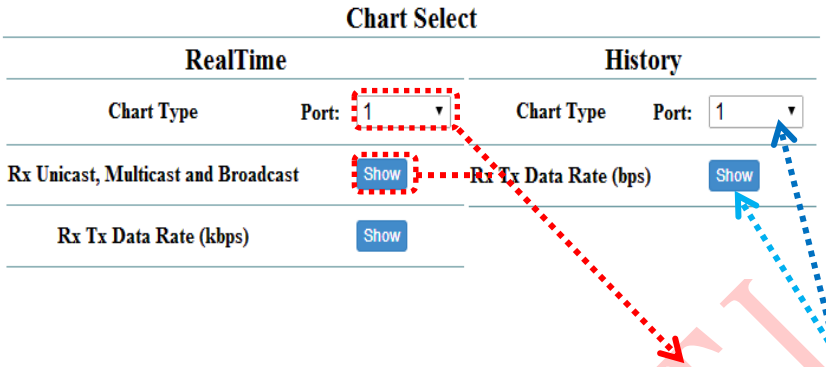
VIA CONF

3-3-1. OverView

滑鼠點選 OverView，是進入該台網路設備總結網頁。

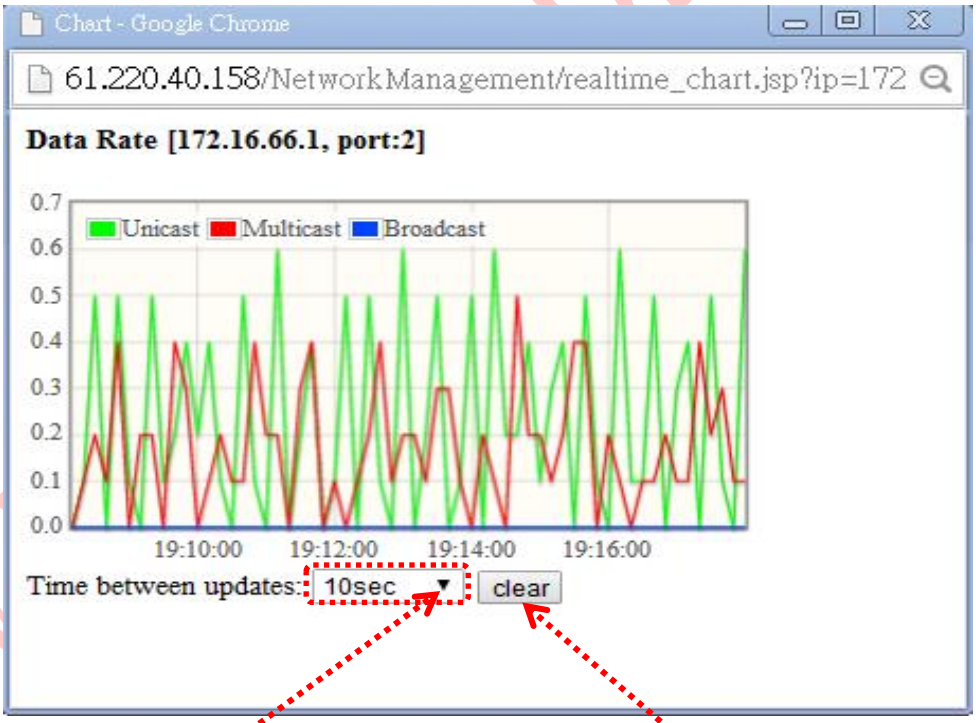


在 Chart Select 中，是進入該台網路設備的圖型分析資料，分爲即時資料圖型和歷史資料圖型。



滑鼠點選下拉選單先選欲觀看的埠，選完再選種類按 Show

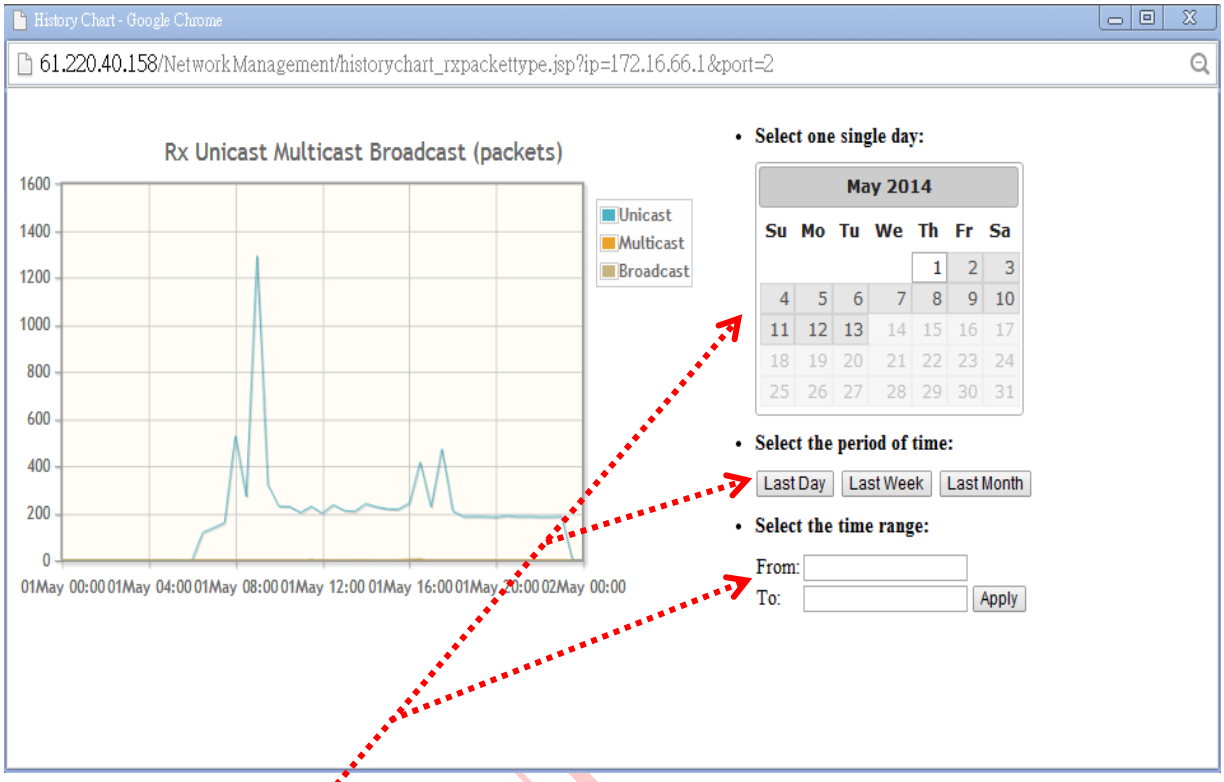
即時資料圖型



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

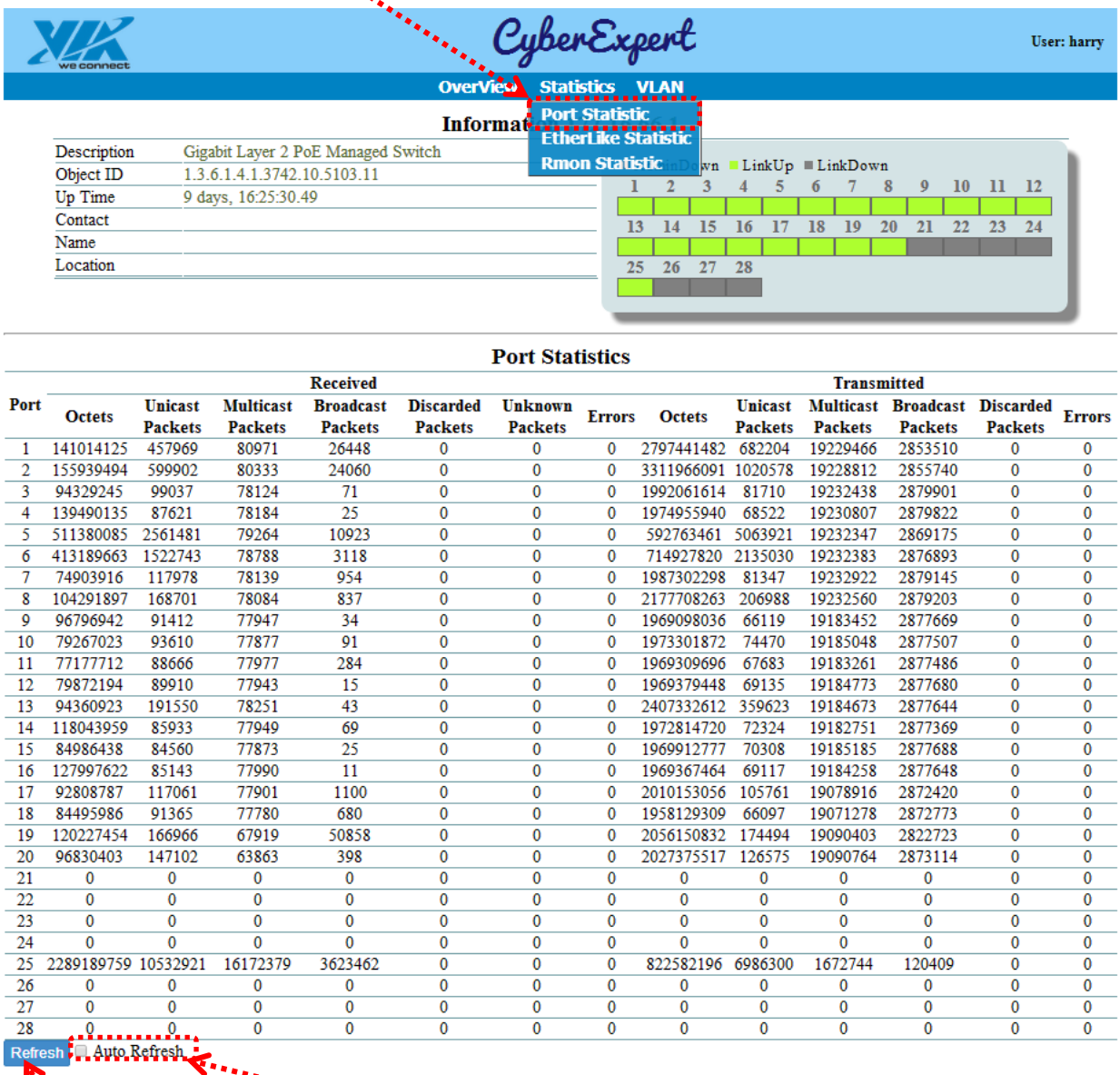


滑鼠可直接點選日期，也可點選:Last Day、Last Week、Last Month，也可完直接設定時間間隔。

VIA CONF

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

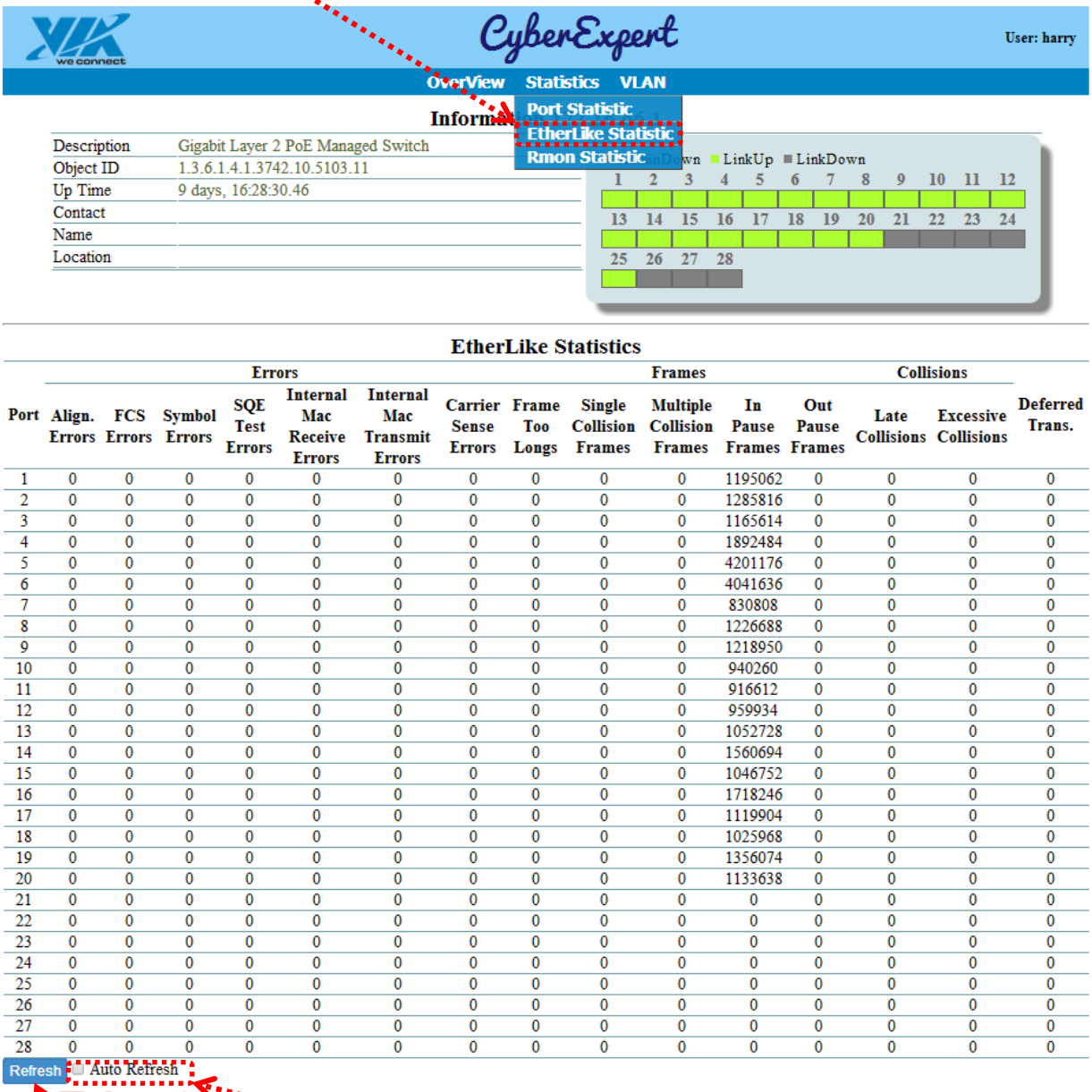


Port	Received							Transmitted					
	Octets	Unicast Packets	Multicast Packets	Broadcast Packets	Discarded Packets	Unknown Packets	Errors	Octets	Unicast Packets	Multicast Packets	Broadcast Packets	Discarded Packets	Errors
1	141014125	457969	80971	26448	0	0	0	2797441482	682204	19229466	2853510	0	0
2	155939494	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

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



EtherLike Statistics

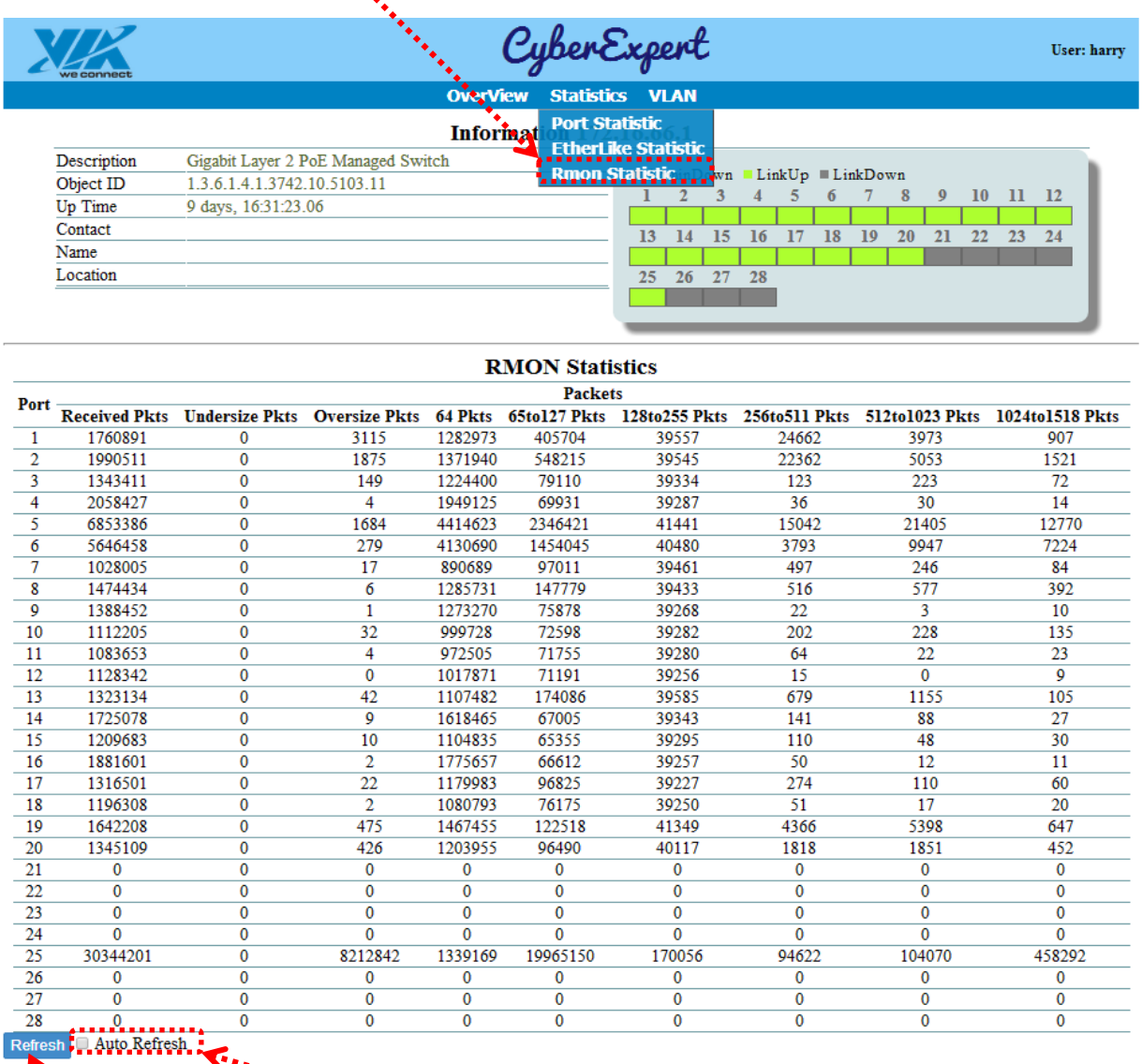
Port	Errors						Frames						Collisions		Deferred Trans.
	Align. Errors	FCS Errors	Symbol Errors	SQE Test Errors	Internal Mac Receive Errors	Internal Mac Transmit Errors	Carrier Sense Errors	Frame Too Longs	Single Collision Frames	Multiple Collision Frames	In Pause Frames	Out Pause Frames	Late Collisions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

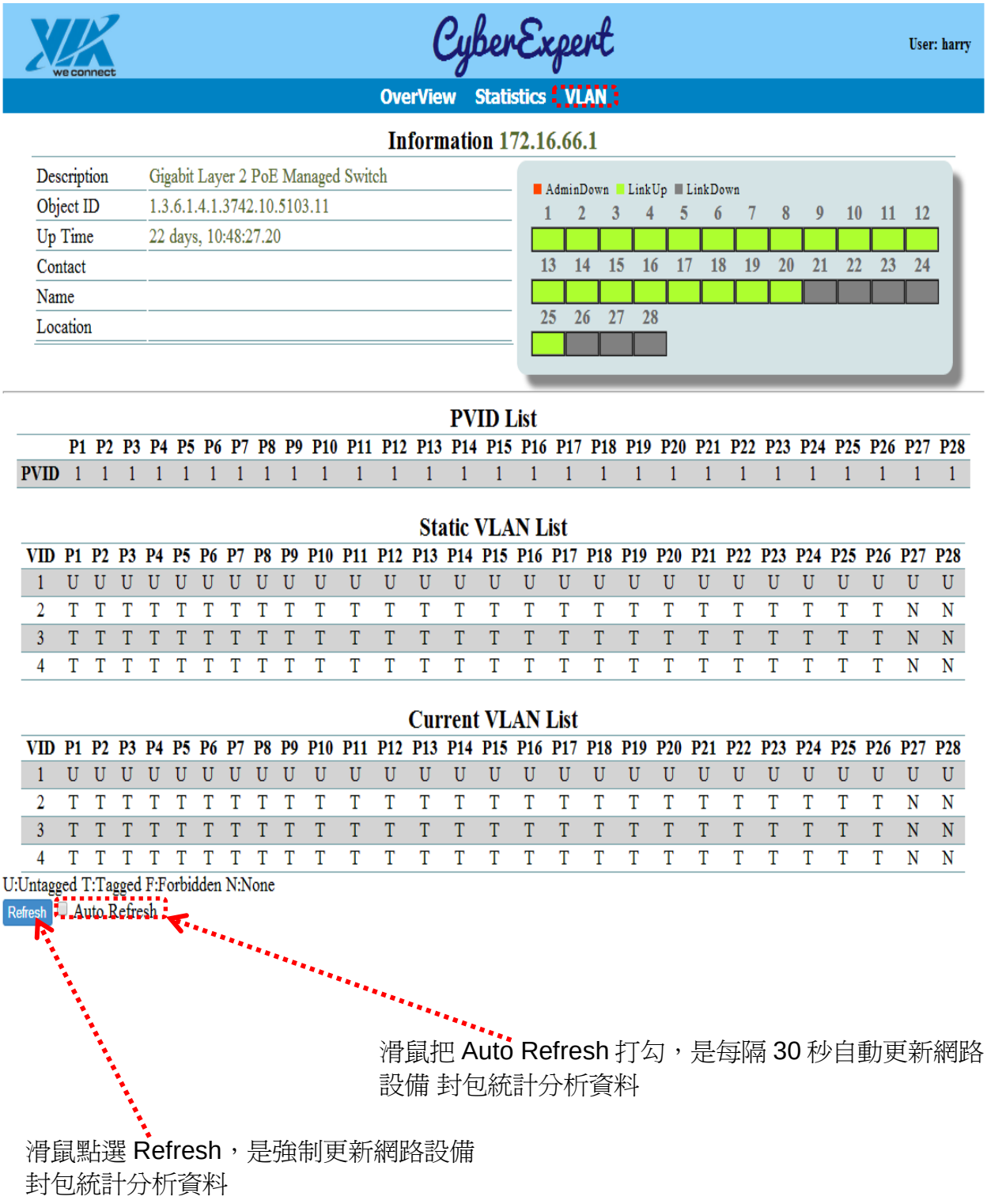


滑鼠把 Auto Refresh 打勾，是每隔 30 秒自動更新網路設備封包統計分析資料

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，分爲靜態虛擬網路列表(Static VLAN List)和即時虛擬網路列表(Current VLAN List)

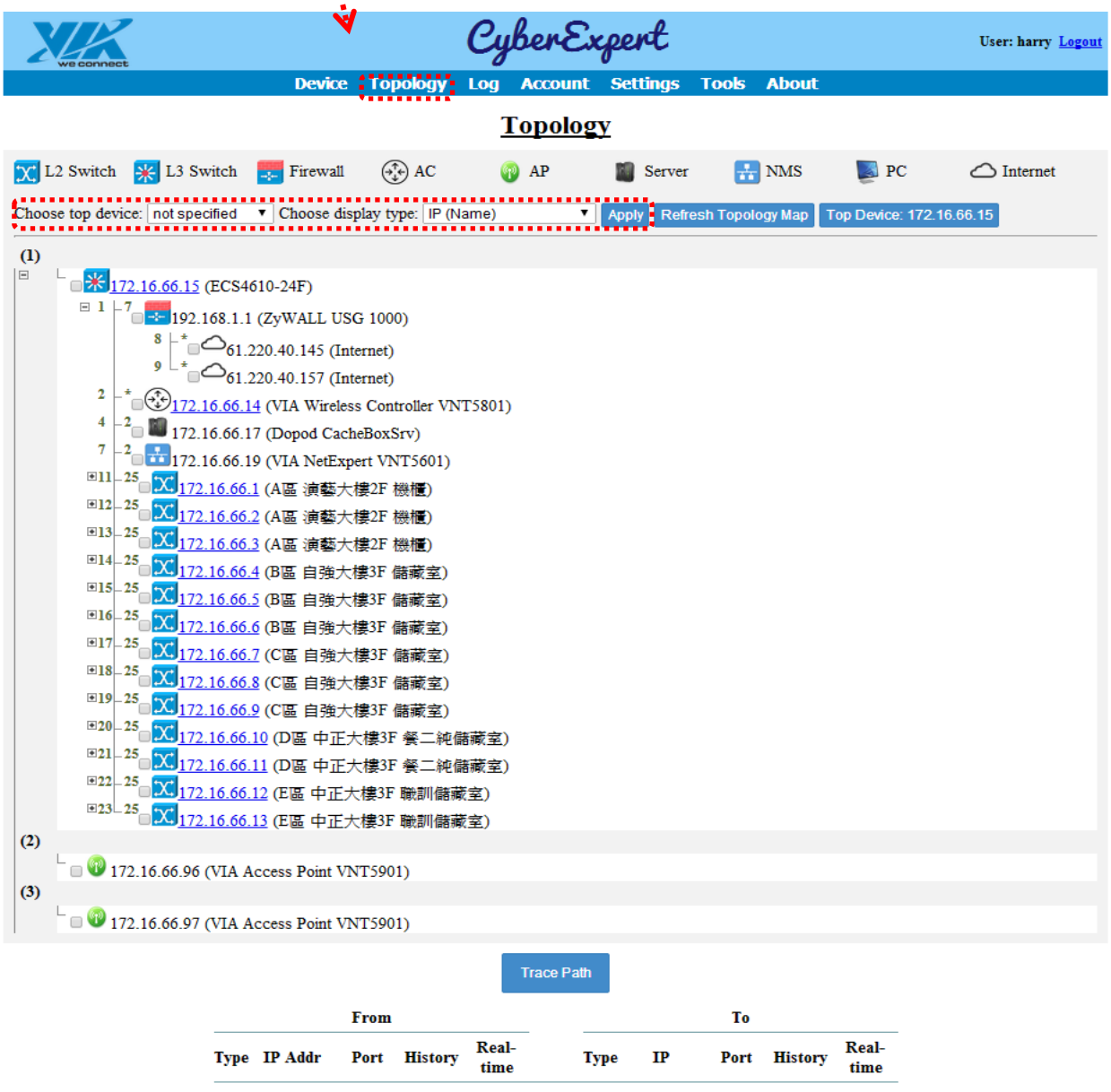


滑鼠把 Auto Refresh 打勾，是每隔 30 秒自動更新網路設備 封包統計分析資料

滑鼠點選 Refresh，是強制更新網路設備 封包統計分析資料

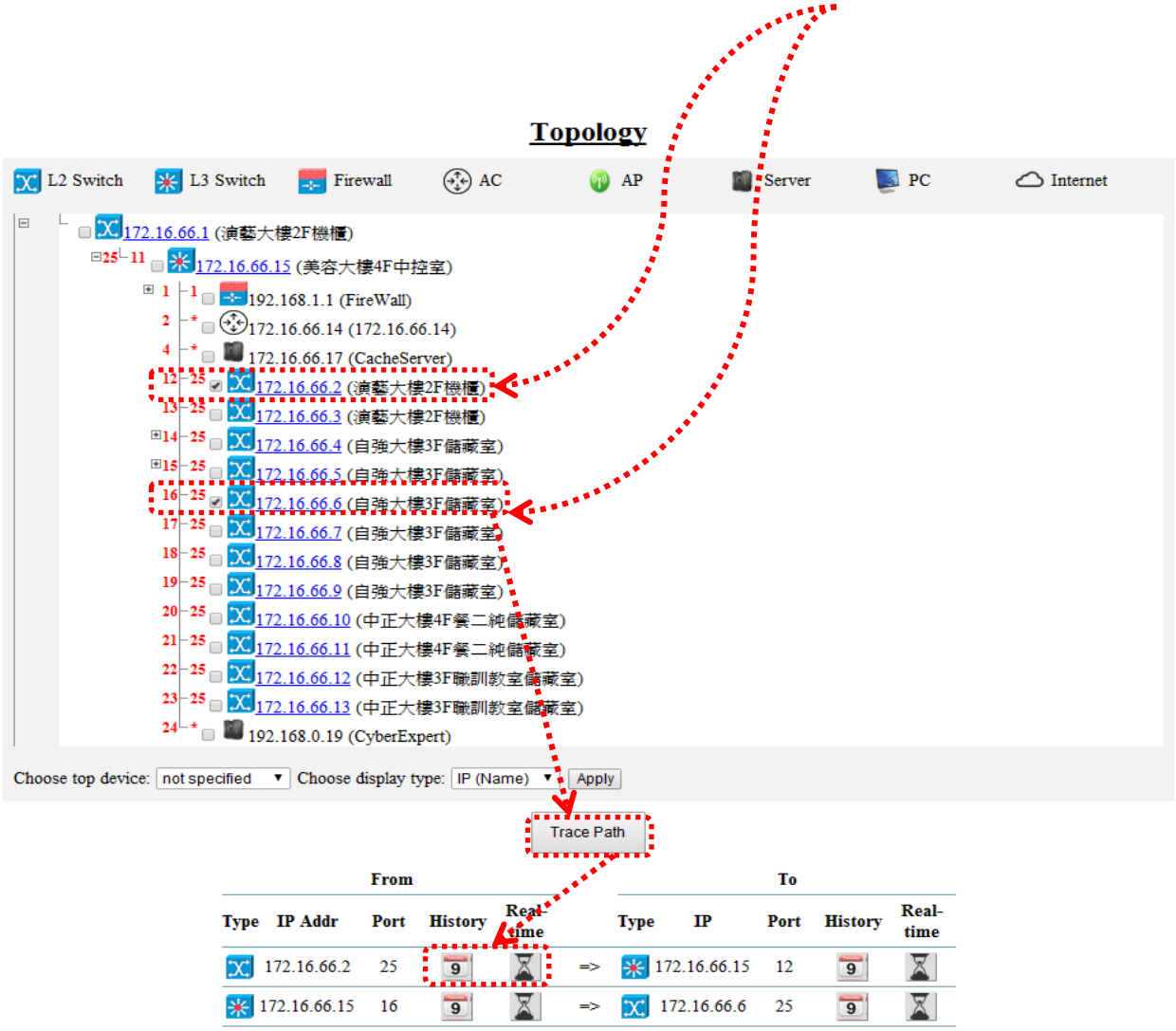
4. “網路管理專家”網路拓譜圖

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。



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)，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。

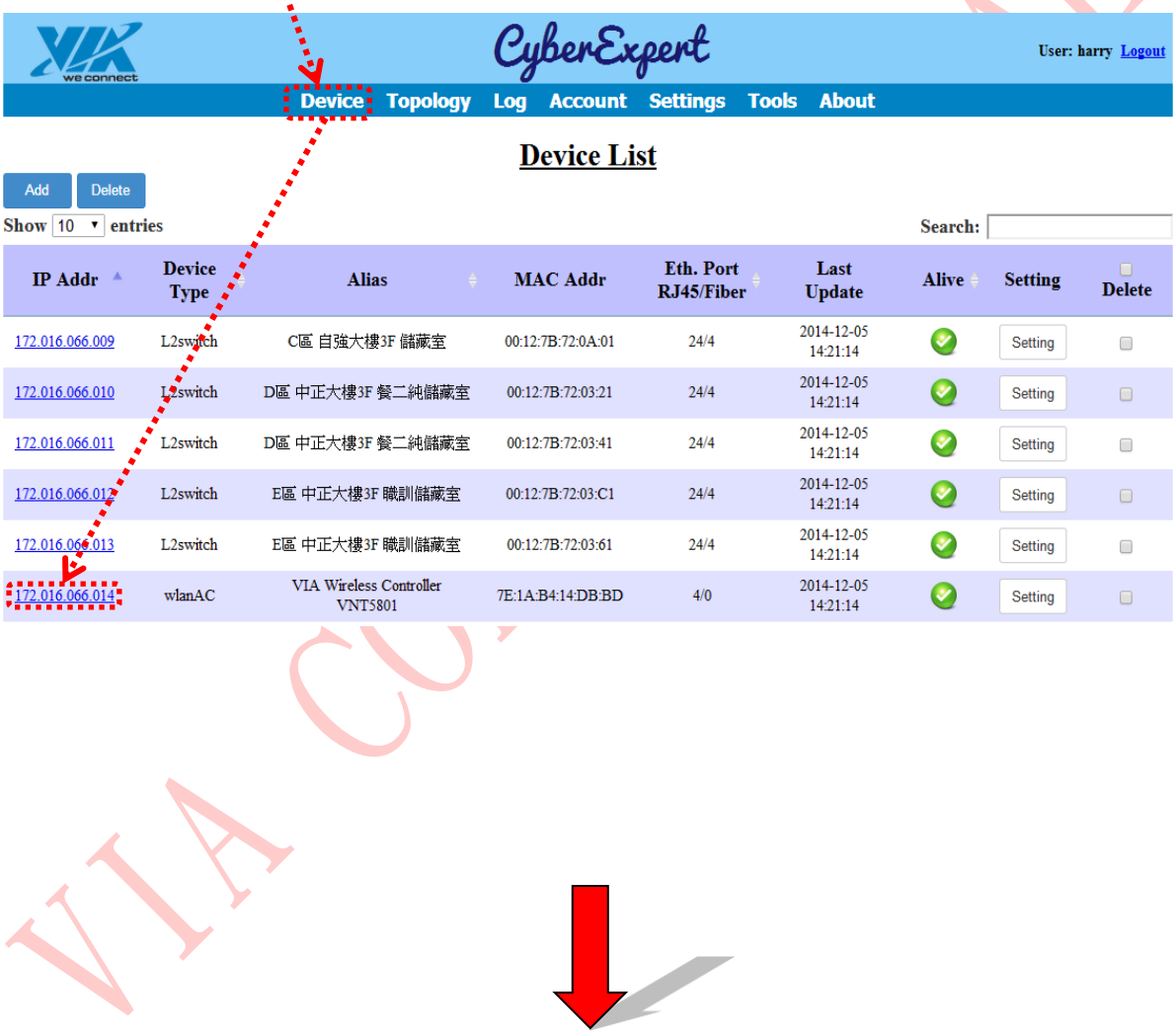


VIA

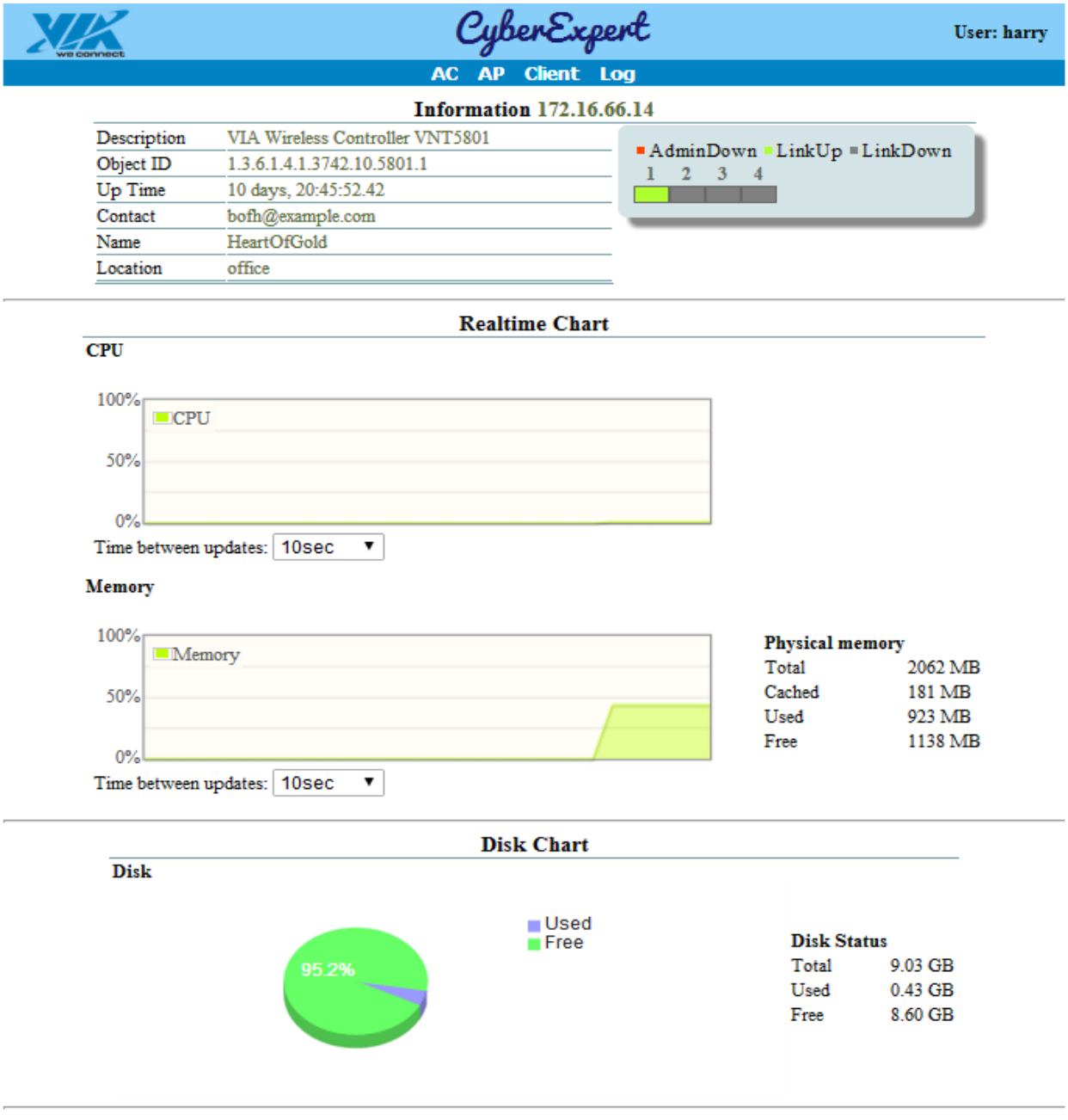
5. “網路管理專家”無線控制器

5-1. AC

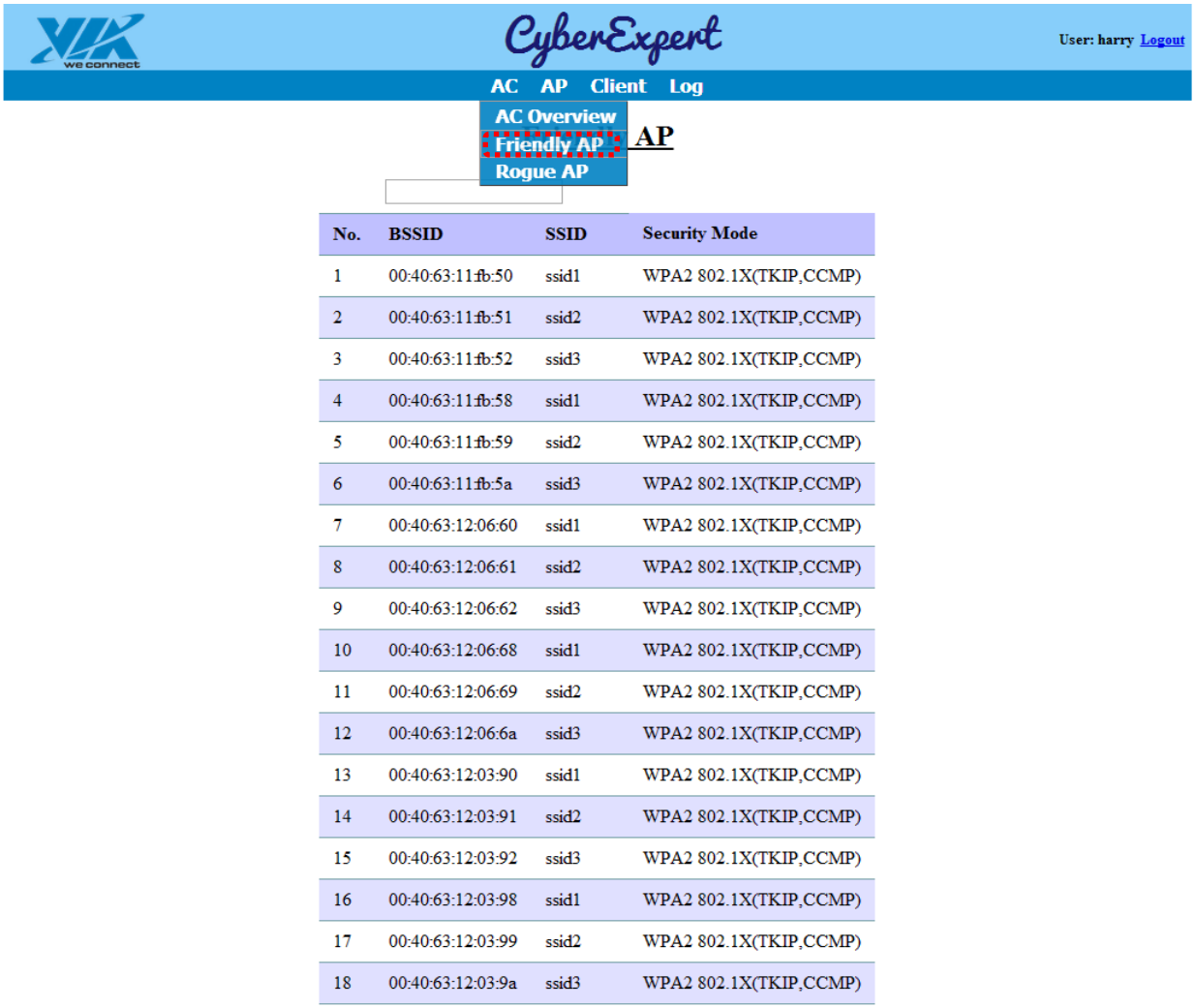
滑鼠點選 Device，再點選 IP Addr 的 172.16.66.14 是進入該台 **AC** 總結網頁 AC Overview，”網路管理專家”能顯示威盛的無線網路控制器總覽。



VIA CONFIDENTIAL


CyberExpert
User: harry
AC AP Client Log
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
100%
50%
0%
CPU
Time between updates: 10sec
Memory
100%
50%
0%
Memory
Time between updates: 10sec
Physical memory
Total 2062 MB
Cached 181 MB
Used 923 MB
Free 1138 MB
Disk Chart
Disk
95.2%
Used
Free
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。



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)

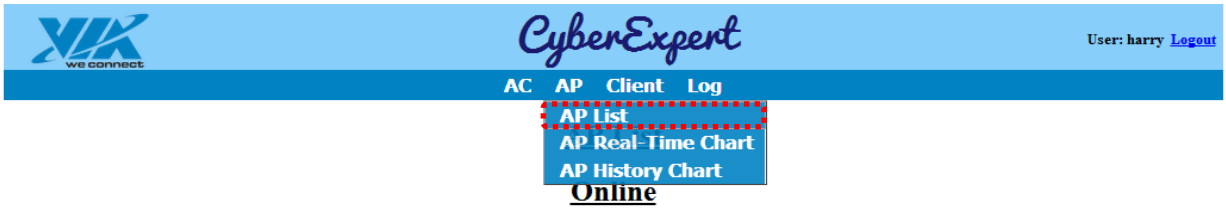
滑鼠點選 Rogue AP，”網路管理專家”能顯示現在網路所有非法無線 AP。

No.	BSSID	SSID	Security Mode
1	94:0c:6d:b2:57:78	"TP-LINK_B25778"	WPA2 PSK (CCMP)
2	00:40:63:10:ff:00	"24"	mixed WPA/WPA2 PSK (TKIP, CCMP)
3	00:40:63:10:ff:01	"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	00:17:3f:40:fc:82	"CSSD_AP"	WPA PSK (CCMP)
18	10:fe:ed:e2:67:98	"greenvity_demo"	mixed WPA/WPA2 PSK (TKIP, CCMP)

VIA

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。



Online

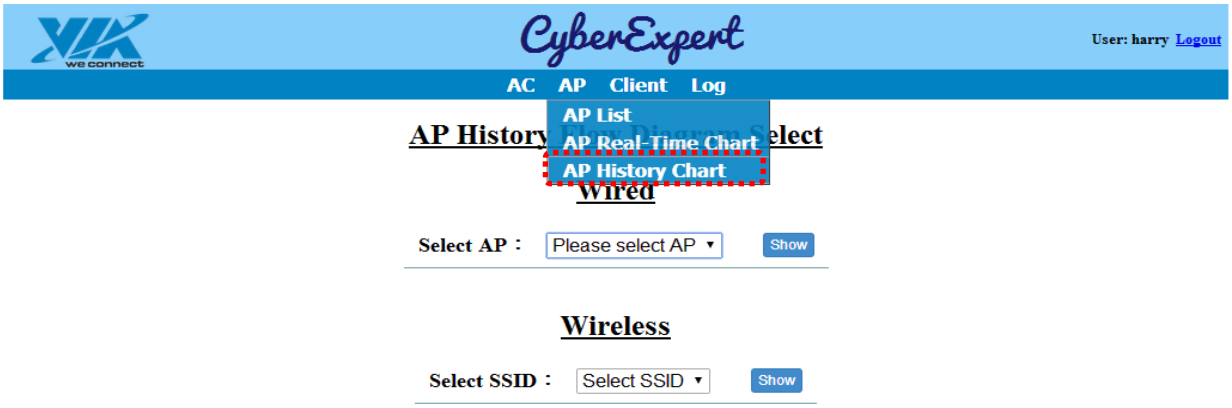
No.	Name	Model	Firmware	IP	MAC	2.4G / 5G Channel	Status	Profile	Group	Alive
1	FORNMS	VN5901	1.03.52.20	192.168.0.251	00:12:7B:81:10:F0	auto/Disable	managed	FORNMS	default	
2	NMS_8F	VN5901	1.03.52.20	192.168.0.252	00:12:7B:81:12:20	11/Disable	managed	NMS_8F	default	
3	VNT5901	VN5901	1.03.52.20	192.168.2.1	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	

VIA

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。

VIA

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

VIA

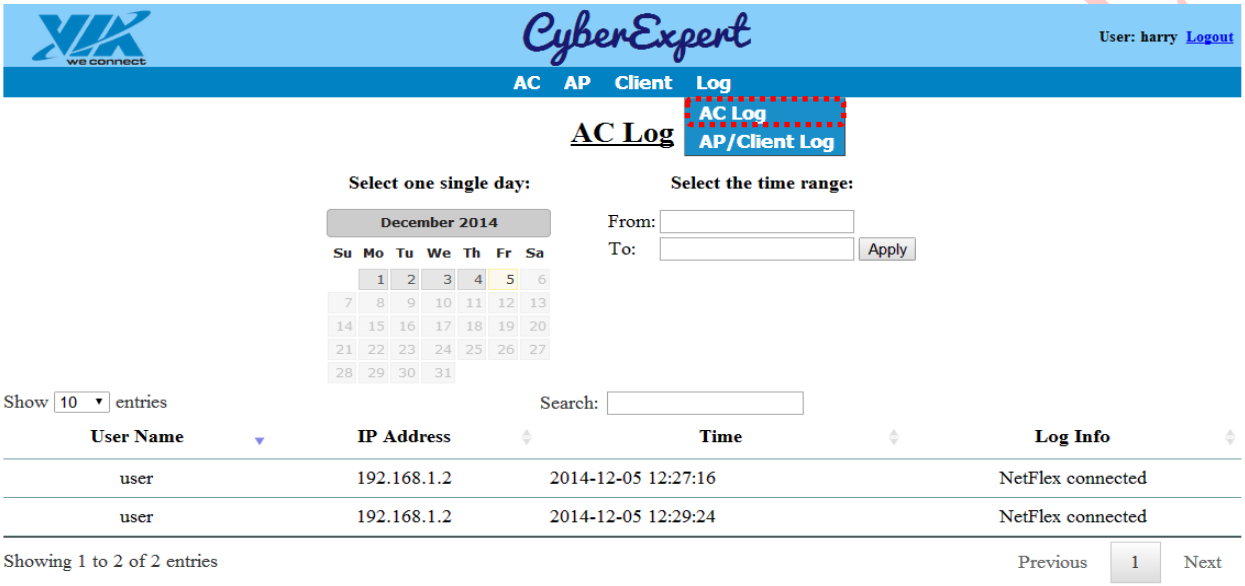
滑鼠點選 Client Device List，“網路管理專家”能匯入網路所有無線使用者名稱及其 Device MAC Address。

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。

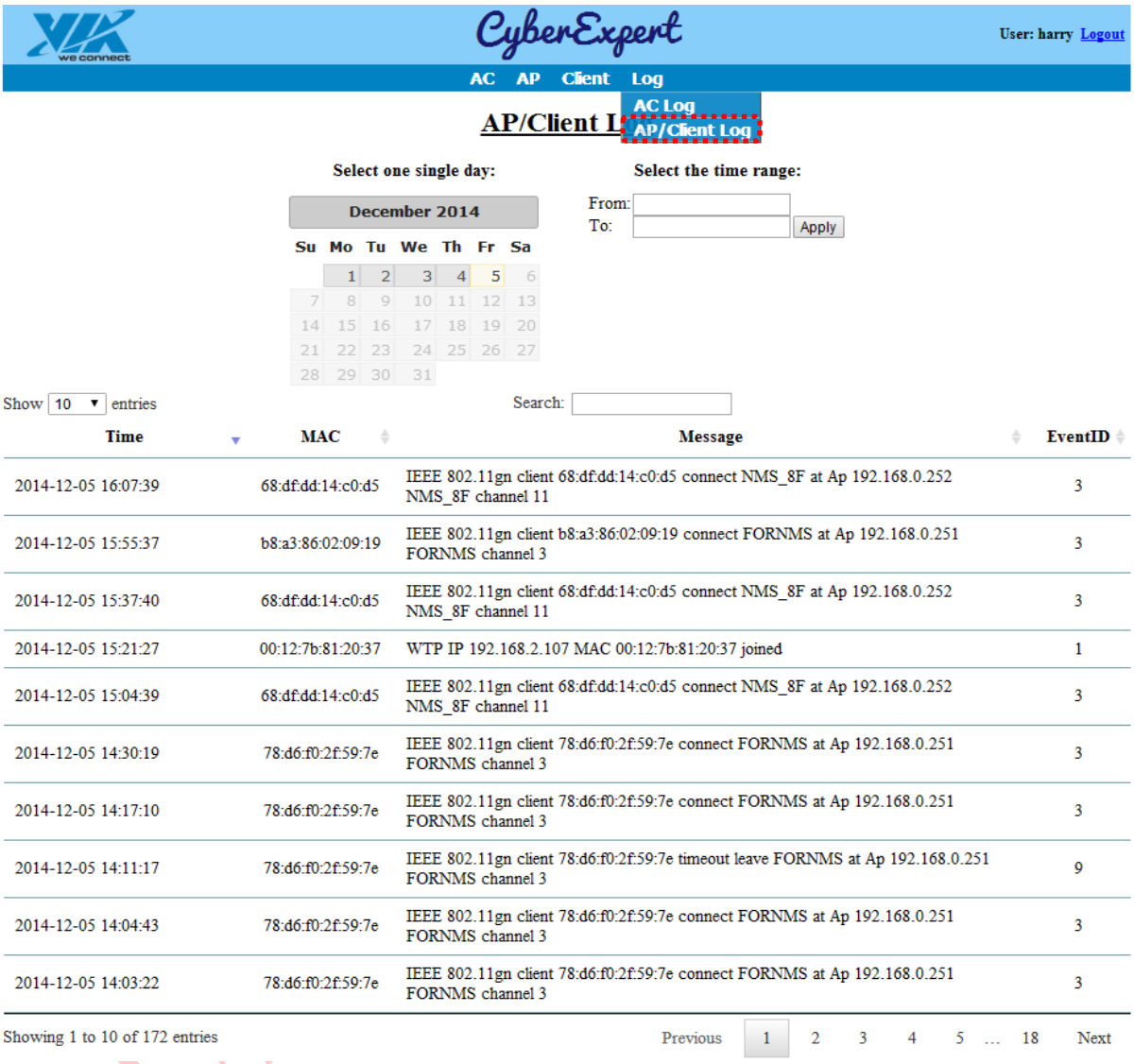
5-4. Log

“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

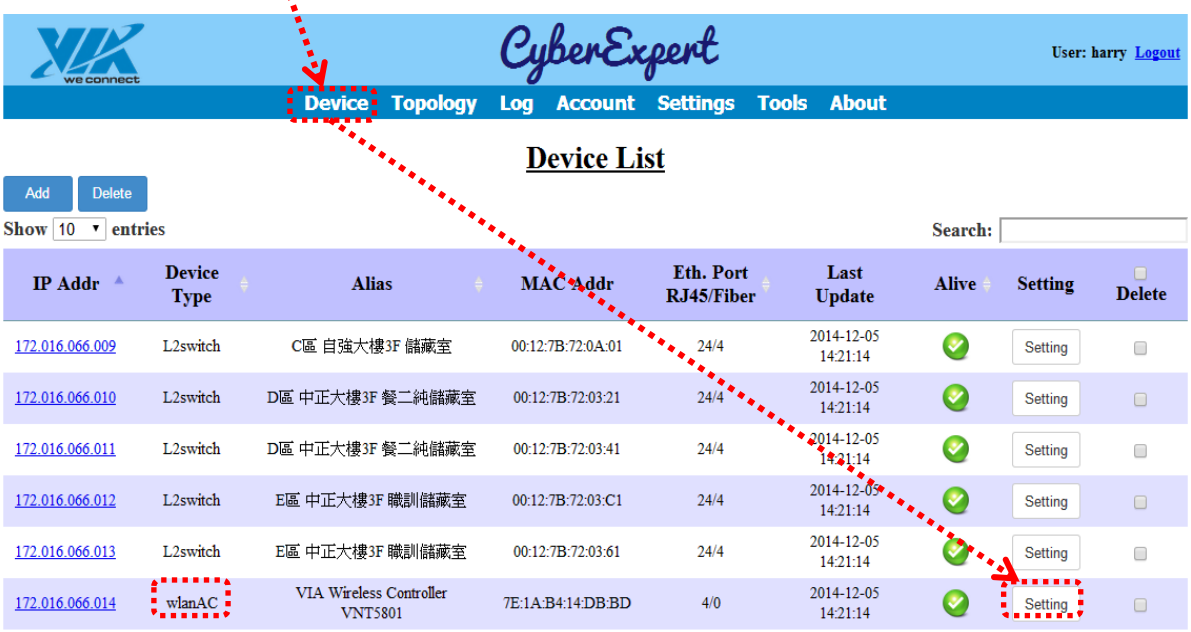


AP/Client 日誌

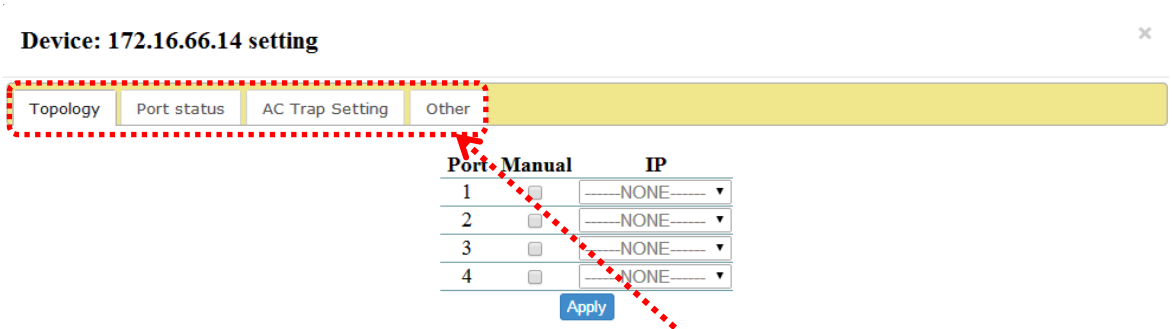

CyberExpert
User: harry Logout
AC AP Client Log
AC Log
AP/Client Log
AP/Client L
Select one single day:
Select the time range:
December 2014
Su Mo Tu We Th Fr Sa
From:
To:
Apply
Show 10 entries
Search:
Time
MAC
Message
EventID
2014-12-05 16:07:39 68:df:dd:14:c0:d5 IEEE 802.11gn client 68:df:dd:14:c0:d5 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。

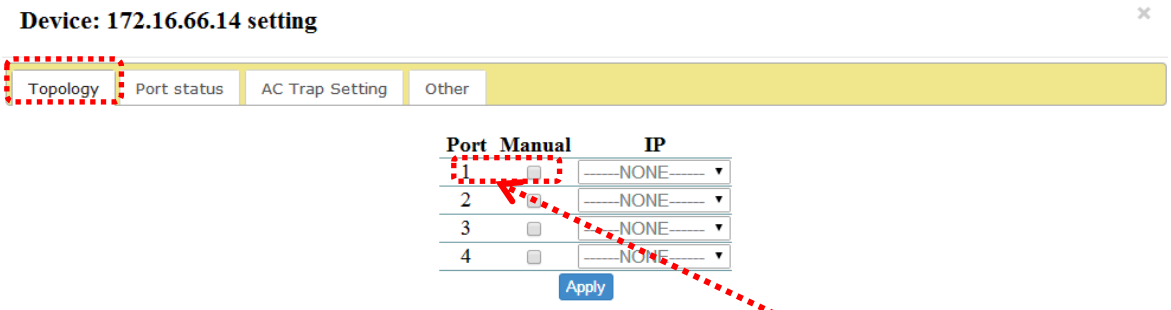


VIA CONFIDENTIAL



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

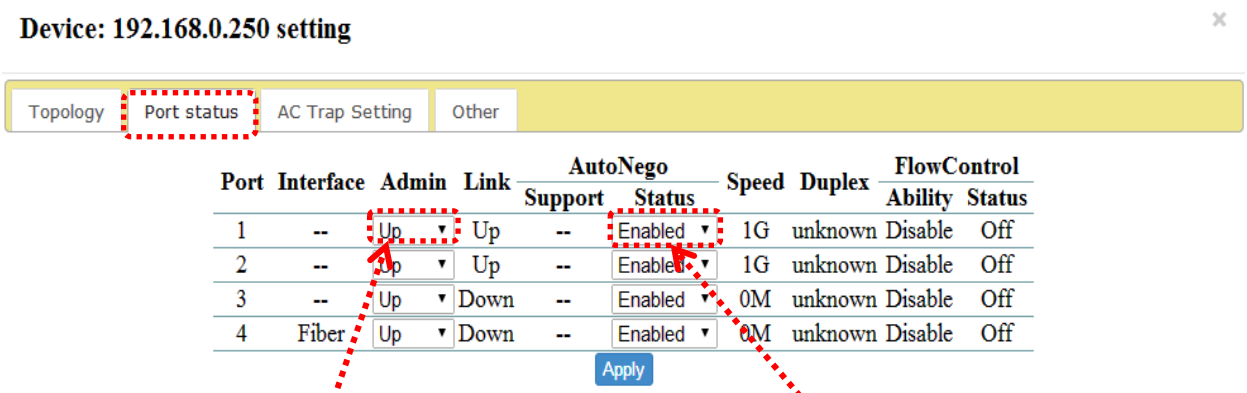


”網路管理專家”可以自動偵測網路線路鏈接方式，並顯示各網口連接設備的 IP。

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。

CONFIDENTIAL

Port status 設定網頁

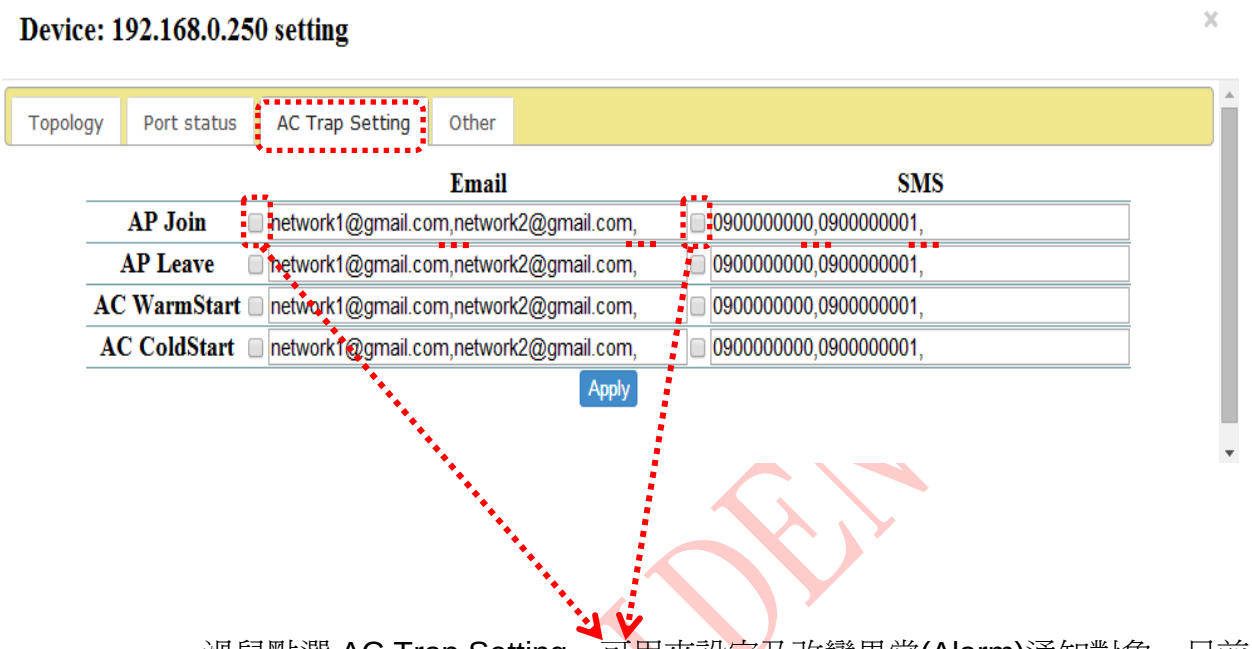


滑鼠點選 Up 下拉選單可設定埠的開關(Up or Down)，選完再按 Set。

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。

VIA CONFIDEN

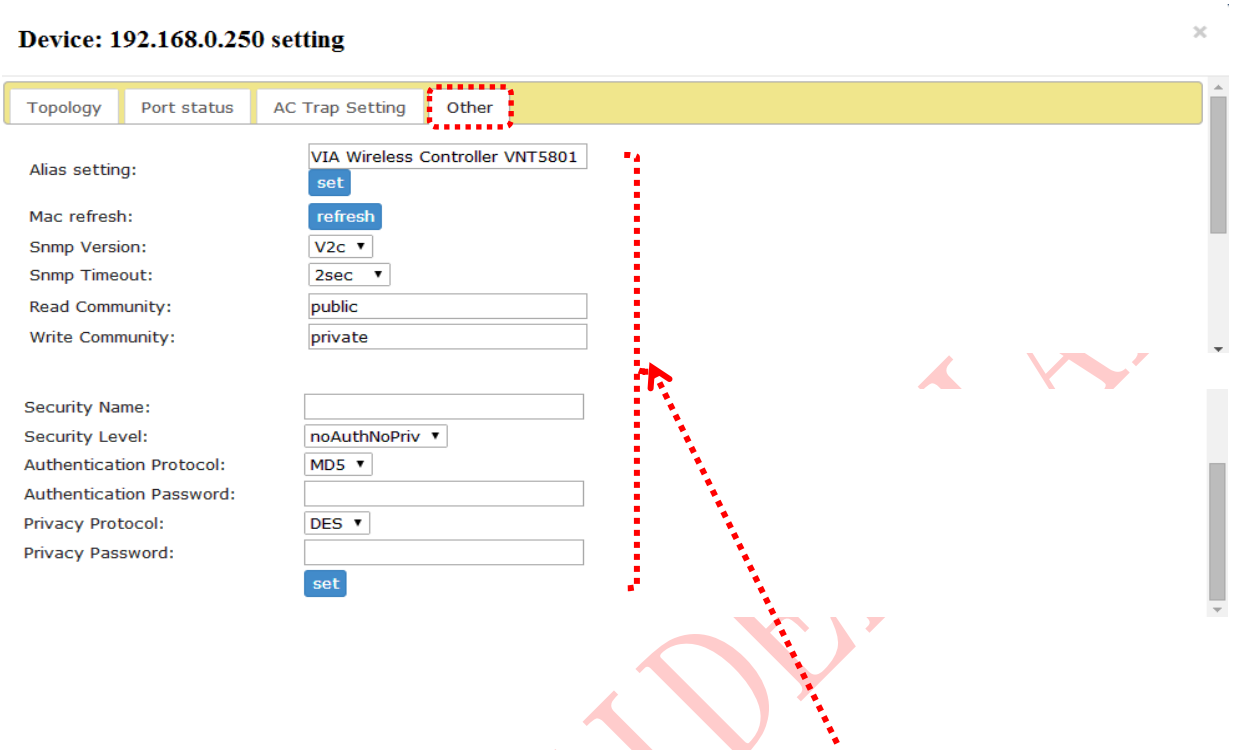
AC Trap Setting 設定網頁



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。

VIA CONFIDEN

Other 設定網頁



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

VIA CONFIDENTIAL

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 10 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 10 entries Search:

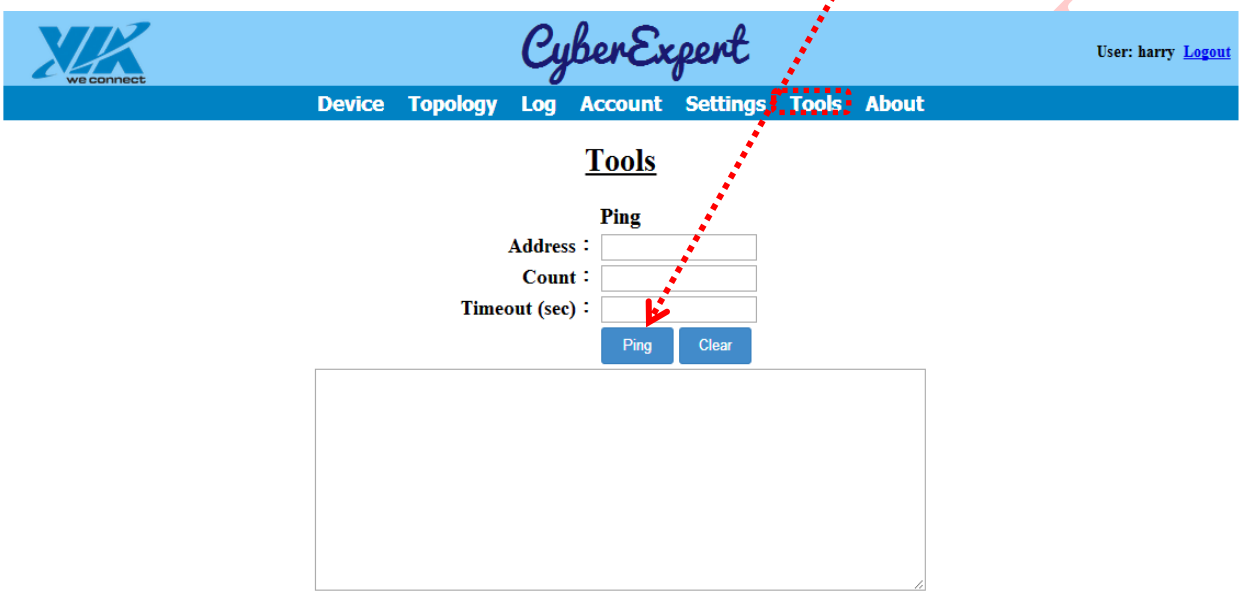
Time	Level	Message
2014-10-16 11:56:15.81	ERROR	VIA CyberExpert Start Up
2014-10-16 11:54:19.408	ERROR	VIA CyberExpert Shut Down
2014-10-15 09:50:05.673	ERROR	Device IP = 172.16.66.9 has disconnected over 30 minutes.
2014-10-15 09:21:51.634	ERROR	VIA CyberExpert Start Up
2014-10-15 09:21:32.946	ERROR	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

VIA CONFIDENTIAL

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。



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。

VIA

9. 全球服務中心據點

原廠服務中心據點

威盛電子 股份有限公司 (台灣總公司)

新北市新店區中正路 531 號 1 樓

TEL: 886-2-22185452

FAX: 886-2-22198461

Web: http://www.via.com.tw

威盛電子 股份有限公司 (深圳公司)

深圳市南山區深南大道 9966 號

TEL: 86-755-66821000

FAX: 86-755-61886510

Web: http://www.viatech.com.cn

VIA CONFIDENTIAL