

如何應用Thin AP的無線 資料轉送模式

ZyXEL Communications

Jones Chen

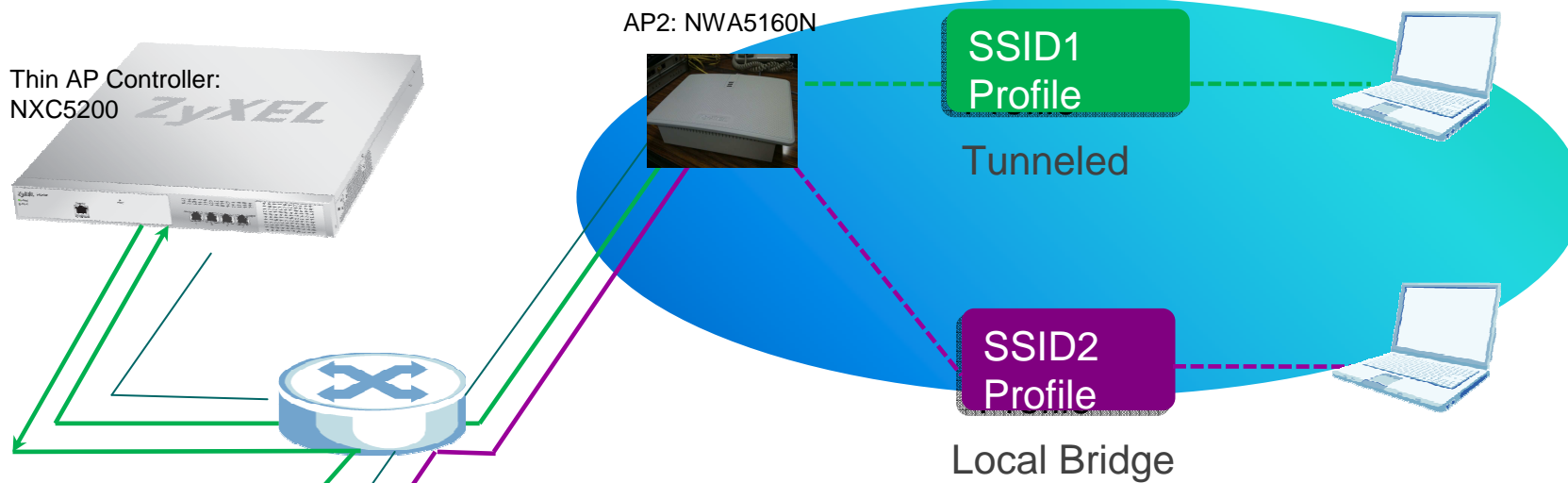




Thin AP兩類型無線資料轉送模式

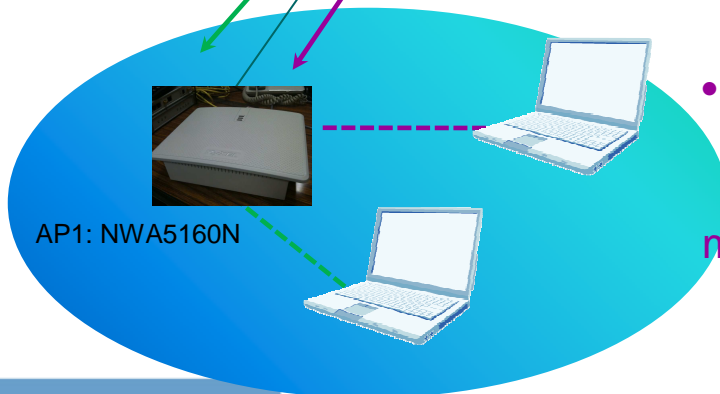
• (1) Tunneled Mode:

- Traffic goes back to controller and then to the destination
- Able to enforcement some security check



• (2) Local Bridge Mode:

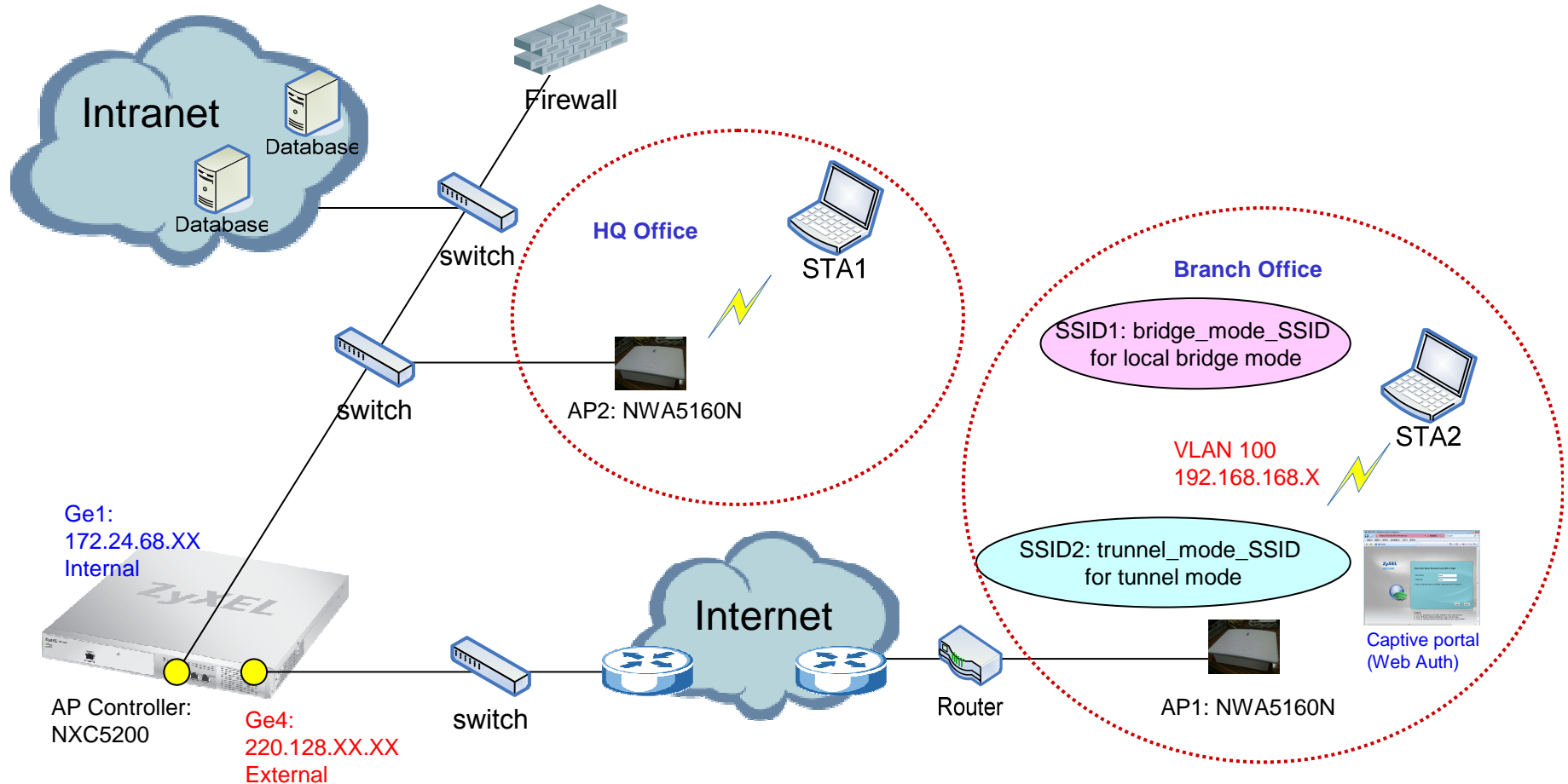
- Traffic is forwarded at switch level.
- Enhance the efficiency such as for secured & massive communications





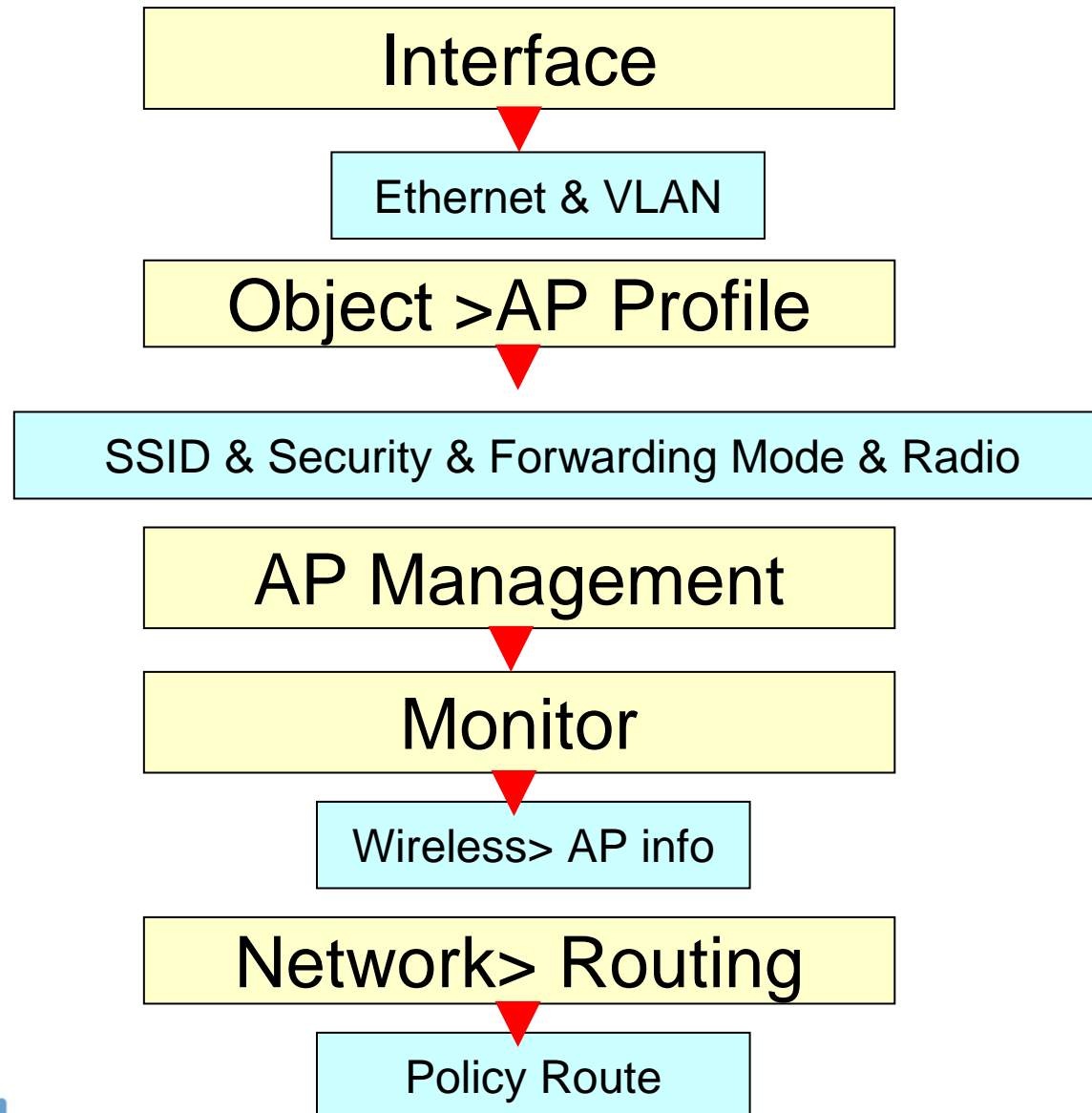
Local Bridge & Tunnelled 應用架構範例

- (1) 訪客SSID: bridge_mode_SSID, 僅具備存取外部網路的權限
- (2) 員工SSID: trunnel_mode_SSID 具備存取內部及外部網路權限





NXC5200設定觀念及建議步驟





NXC5200 Dashboard

[NXC5200] (172.24.68.230) - Welcome to NXC5200 ... - Mozilla Firefox

172.24.68.230 https://172.24.68.230/ext-js/web-pages/index/index.html

ZyXEL NXC5200

Welcome admin | Logout | Help | About | Site Map | Object Reference | Console | CLI

DASHBOARD

Virtual Device

Ge1 Ge4

Device Information

System Name:	NXC5200
Model Name:	NXC5200
Serial Number:	S102C20100003 90-005-300001B
MAC Address Range:	00:23:F8:42:68:9C ~ 00:23:F8:42:68:A3
Firmware Version:	2.20(AAT.1) / 1.3 / 2010-07-13 09:57:31

System Status

System Uptime:	1 days, 16:21:37
Current Date/Time:	2010-11-06 / 08:58:12 GMT+08:00
DHCP Table:	2
Current Login User:	admin (unlimited / 00:29:59)
Number of Login Users:	2



Interface > Ethernet

ZyXEL NXC5200

Welcome admin | ? Help Z About Site Map Object Reference Console CLI

CONFIGURATION

- Network
 - Interface**
 - Routing
 - Zone
 - NAT
 - ALG
 - IP/MAC Binding
 - Captive Portal
 - Firewall
 - App Patrol
- Anti-X
 - Anti-Virus
 - IDP
 - ADP
- Device HA
- Object
 - User/Group

Ethernet | VLAN

Configuration

Edit Activate Inactivate Object Reference

#	Stat..	Name	IP Address	Mask	PVID
1	🔆	ge1 Internal	STATIC -- 172.24.68.230	255.255.255.0	1
2	🔆	ge2	STATIC -- 0.0.0.0	0.0.0.0	1
3	🔆	ge3	STATIC -- 0.0.0.0	0.0.0.0	1
4	🔆	ge4 External	STATIC -- 220.128.160.44	255.255.255.240	1
5	🔆	ge5	STATIC -- 0.0.0.0	0.0.0.0	1
6	🔆	ge6	STATIC -- 0.0.0.0	0.0.0.0	1
7	🔆	ge7	STATIC -- 0.0.0.0	0.0.0.0	1
8	🔆	ge8	STATIC -- 0.0.0.0	0.0.0.0	100

Apply Reset



Interface > VLAN

ZyXEL NXC5200

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CONFIGURATION

- MON Mode
- Load Balancing
- DCS
- Network
 - Interface**
 - Routing
 - Zone
 - NAT
 - ALG
 - IP/MAC Binding

Ethernet | **VLAN**

Configuration

[Add](#) [Edit](#) [Remove](#) [Activate](#) [Inactivate](#) [Object Reference](#)

#	Status	Name	IP Address	VID	Member
1		vlan0	STATIC -- 192.168.1.1	1	ge3,ge5,ge6,ge7
2		vlan100	STATIC -- 192.168.168.254	100	ge2

Page 1 of 1 | Show 50 items





Interface > VLAN (Edit)

Edit Vlan vlan100

Hide Advanced Settings

General Settings

Enable Interface

Interface Properties

Interface Name: vlan100

VID: (1~4094)

Zone: LAN

Description: (Optional)

Member Configuration

Edit

#	Port Name	Member	Tx Tagging
1	ge1	no	no
2	ge2	yes	no
3	ge3	no	no
4	ge4	no	no
5	ge5	no	no
6	ge6	no	no
7	ge7	no	no
8	ge8	no	no

IP Address Assignment

Get Automatically

Use Fixed IP Address

IP Address:

Subnet Mask:

Gateway: (Optional)

Metric: (0-15)

Related Setting

Configure [Policy Route](#)

Interface Parameters

Egress Bandwidth: Kbps

Ingress Bandwidth: Kbps

MTU: Bytes

DHCP Setting

DHCP: DHCP Server

IP Pool Start Address (Optional): Pool Size:

First DNS Server (Optional): Custom Defined

Second DNS server (Optional): Custom Defined

Third DNS Server (Optional): Custom Defined

First WINS Server (Optional):

Second WINS Server (Optional):

Lease time: infinite

3 days 0 hours (Optional) 0 minutes (Optional)

Enable IP/MAC Binding

Enable Logs for IP/MAC Binding Violation

Static DHCP Table

Add Edit Remove

#	IP Address	MAC	Description
---	------------	-----	-------------

Page 1 of 1 | Show 50 items | No data to display





AP Profile > SSID List

ZyXEL NXC5200

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CONFIGURATION

- Captive Portal
- Firewall
- App Patrol
- Anti-X
 - Anti-Virus
 - IDP
 - ADP
- Device HA
- Object
 - User/Group
 - AP Profile
 - MON Profile

Radio | **SSID**

SSID List | Security List | MAC Filter List

SSID Summary

Add Edit Remove Object Reference

#	Profile Name	SSID	Security Profile	QoS	Forwarding Mode	MAC Filter Profile	VLAN ID
1	default	bridge_mode_SSID	default	WMM	localbridge	disable	1
2	tunnel_profile1	tunnel_mode_SSID	security1	WMM	tunnel	disable	100

Page 1 of 1 | Show 50 items | Displaying 1 - 2 of 2

Edit SSID Profile default

Create new Object

Profile Name: default

SSID:

Security Profile:

MAC Filtering Profile:

QoS:

Forwarding Mode:

VLAN ID: (1~4094)

Hidden SSID

Enable Intra-BSS Traffic blocking

OK Cancel

Edit SSID Profile tunnel_profile1

Create new Object

Profile Name:

SSID:

Security Profile:

MAC Filtering Profile:

QoS:

Forwarding Mode:

VLAN Interface: VID: 100

Hidden SSID

Enable Intra-BSS Traffic blocking



AP Profile > Security List

The screenshot shows the ZyXEL NXC5200 configuration interface. The left sidebar lists various configuration categories, with 'AP Profile' selected. The main area is titled 'Security List' and contains a table with the following data:

#	Profile Name	Security Mode
1	default	wpa2-mix
2	security1	wpa2-mix

Below the table, there are navigation controls: Page 1 of 1, Show 50 items, and Displaying 1 - 2 of 2.

訪客使用

The 'Edit Security Profile default' dialog box shows the following configuration:

- Profile Name: default
- Security Mode: wpa2-mix
- 802.1X: (selected)
- Radius Server Type: Internal
- Authentication Method: default
- PSK: (selected)
- Pre-Shared Key: 12345678
- Cipher Type: aes
- ReAuthentication Timer: 0 (30~30000 seconds, 0 is unlimited)
- Idle Timeout: 3000 (30~30000 seconds)
- Group Key Update Timer: 1800 (30~30000 seconds)

員工使用

The 'Edit Security Profile security1' dialog box shows the following configuration:

- Profile Name: security1
- Security Mode: wpa2-mix
- 802.1X: (selected)
- Radius Server Type: Internal
- Authentication Method: default
- PSK: (selected)
- Pre-Shared Key: zytpwireless
- Cipher Type: aes
- ReAuthentication Timer: 0 (30~30000 seconds, 0 is unlimited)
- Idle Timeout: 3000 (30~30000 seconds)
- Group Key Update Timer: 1800 (30~30000 seconds)



AP Profile > Radio

ZyXEL NXC5200

CONFIGURATION

- Zone
- NAT
- ALG
- IP/MAC Binding
- Captive Portal
- Firewall
- App Patrol
- Anti-X
 - Anti-Virus
 - IDP
 - ADP
- Device HA
- Object
 - User/Group
 - AP Profile

Radio Summary

Table:

#	Profile Name	Frequency Band	Channel ID
1	default	2.4G	7

Page 1 of 1 | Show 50 items | Displaying 1 - 1 of 1

Edit Radio Profile default

General Settings

- Activate
- Profile Name: default
- 802.11 Band: 2.4G
- Channel: 7

MBSSID Settings

#	SSID Profile
1	tunnel_profile1
2	default
3	disable
4	disable
5	disable
6	disable
7	disable
8	disable

OK Cancel



AP Management

ZyXEL NXC5200

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CONFIGURATION

- Wireless
 - Controller
 - AP Management**
 - MON Mode
 - Load Balancing
 - DCS
- Network
 - Interface
 - Routing
 - Zone
 - NAT
 - ALG
 - IP/MAC Binding

Mgmt. AP List

Managed AP List

Edit Remove Reboot

#	IP Address	MAC Address	Model	R1 Mode / Profile	Description
1	220.132.185.10	40:4A:03:05:82:42	NWA5160N	AP / default	AP-404A03058242
2	172.24.68.189	40:4A:03:05:82:46	NWA5160N	AP / default	AP-404A03058246

Page 1 of 1 | Show 50 items | Displaying 1 - 2 of 2

Edit AP List

Create new Object

General Settings

MAC Address: 40:4A:03:05:82:42

Model: NWA5160N

Description: AP-404A03058242

Radio 1 OP Mode: AP Mode MON Mode

Radio 1 Profile: default

VLAN Settings

Management VLAN ID: 1 (1~4094)

As Native VLAN

OK Cancel





MONITOR > Wireless > AP info

ZyXEL NXC5200

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MONITOR

- System Status
 - Port Statistics
 - Interface Status
 - Traffic Statistics
 - Session Monitor
 - IP/MAC Binding
 - Login Users
- Wireless
 - AP Info**
 - Station Info
 - Rogue AP
 - AppPatrol Statistics
- Anti-X Statistics
 - Anti-Virus
 - IDP
- Log

AP List | Radio List

AP List

[Add to Mgmt AP List](#) | [More Information](#)

#	Status	Loading	Registration	Description ^	Model	IP Address	MAC Address	Station
1		-	Mgmt AP	AP-404A03058...	NWA5160N	220.132.185.10	40:4A:03:05:82:42	1
2			Mgmt AP	AP-404A03058...	NWA5160N	172.24.68.189	40:4A:03:05:82:46	0

Page 1 of 1 | Show 50 items | Displaying 1 - 2 of 2

Note: A red box highlights the first two rows of the table, and a tooltip 'On-Line AP' is visible over the status icon of the second row.





MONITOR > Log

ZyXEL NXC5200

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MONITOR

- System Status
 - Port Statistics
 - Interface Status
 - Traffic Statistics
 - Session Monitor
 - IP/MAC Binding
 - Login Users
- Wireless
 - AP Info
 - Station Info
 - Rogue AP
 - AppPatrol Statistics
- Anti-X Statistics
 - Anti-Virus
 - IDP
 - Log**

View Log View AP Log

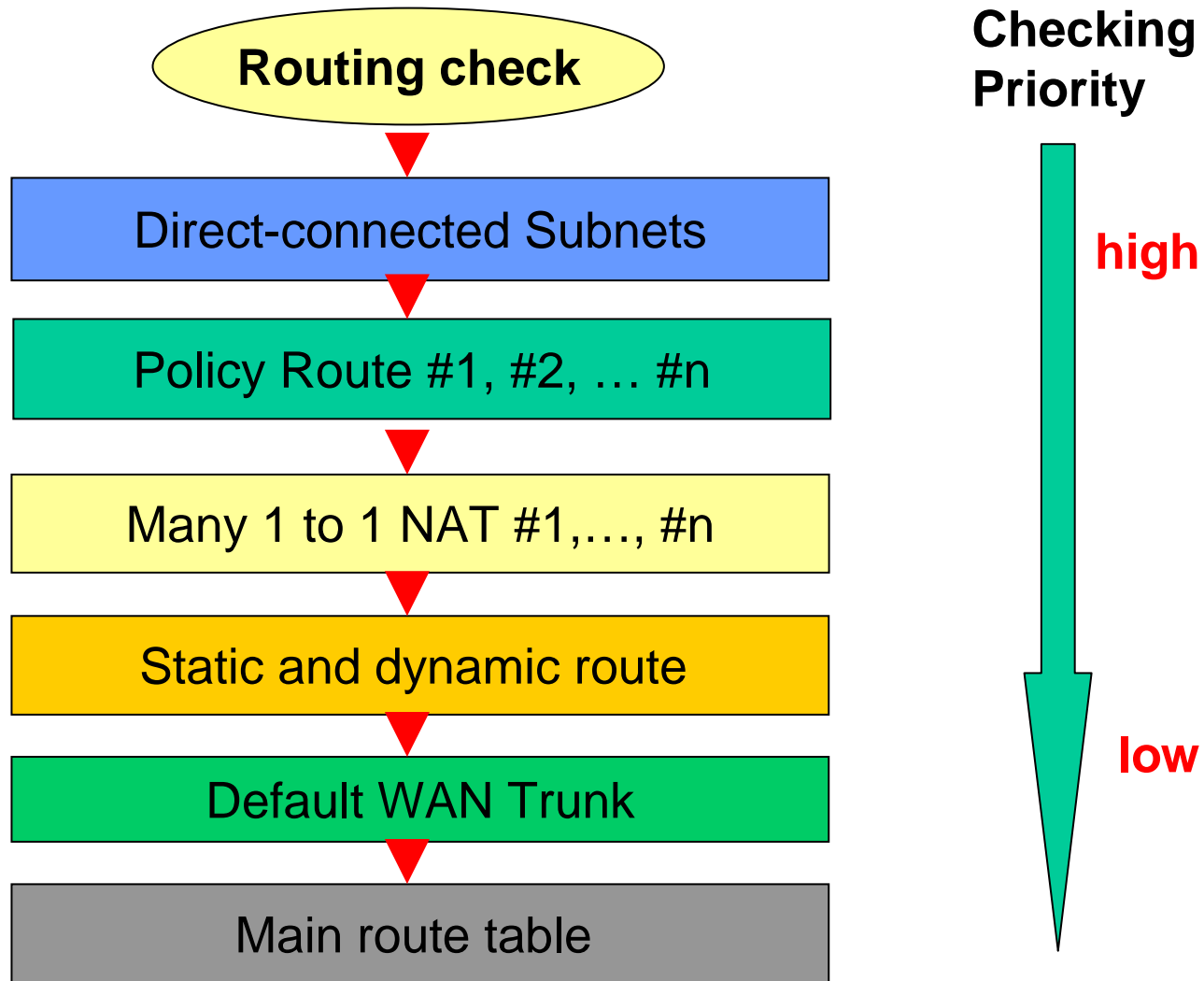
Show Filter

Email Log Now Refresh Clear Log

#	Time	Priority	Category	Message	Source	Destination	Note
1	2010-07-...	info	Daily Report	Email Daily Report has been activated.			CONFIG CHANGE
2	2010-07-...	info	Daily Report	Email Daily Report has been deactivated.			CONFIG CHANGE
3	2010-07-...	warn	ADP	from Any to EnterpriseWLAN, [ftype=Scan-Detection...	192.168.168.34:...	192.168.168.255:138	ACCESS FORWARD
4	2010-07-...	warn	ADP	from Any to EnterpriseWLAN, [ftype=Scan-Detection...	192.168.168.34:...	192.168.168.255:137	ACCESS FORWARD
5	2010-07-...	warn	ADP	from Any to EnterpriseWLAN, [ftype=Scan-Detection...	192.168.168.34:...	192.168.168.255:137	ACCESS FORWARD
6	2010-07-...	warn	ADP	from Any to EnterpriseWLAN, [ftype=Scan-Detection...	192.168.168.34:...	192.168.168.255:137	ACCESS FORWARD
7	2010-07-...	warn	ADP	from Any to EnterpriseWLAN, [ftype=Scan-Detection...	192.168.168.34:...	192.168.168.255:137	ACCESS FORWARD
8	2010-07-...	info	DHCP	Sending ACK to 192.168.168.34			DHCP ACK
9	2010-07-...	info	DHCP	DHCP server assigned 192.168.168.34 to Jones-PC(...			DHCP ACK
10	2010-07-...	info	DHCP	Requested 192.168.168.34 from Jones-PC(00:1B:77...			DHCP Request
11	2010-07-...	info	DHCP	DHCP server offered 192.168.168.34 to Jones-PC(0...			DHCP Offer
12	2010-07-...	notice	Captive Portal	Traffic from any to any, REJECT [count=9]	192.168.1.71:138	192.168.1.255:138	ACCESS BLOCK
13	2010-07-...	notice	Captive Portal	Traffic from any to any, REJECT [count=9]	192.168.1.71:137	192.168.1.255:137	ACCESS BLOCK
15	2010-07-...	notice	Captive Portal	Traffic from any to any, REJECT [count=39]	192.168.1.71:137	192.168.1.255:137	ACCESS BLOCK
14	2010-07-...	notice	Captive Portal	Traffic from any to any, REJECT [count=18]	192.168.1.71:138	192.168.1.255:138	ACCESS BLOCK
16	2010-07-...	info	CAPWAP	STA AssociationMACAddr:001b77eb28f6, AP=AP-4...			
17	2010-07-...	info	CAPWAP	Success Send Configuration to Managed AP. MACAd...			
18	2010-07-...	info	CAPWAP	Start Send Configuration to Managed AP. MACAddr:...			
19	2010-07-...	info	CAPWAP	Managed AP Connect. MACAddr:404a03058242, Mo...	220.132.185.10:...		
20	2010-07-...	alert	CAPWAP	Managed AP Disconnect. MACAddr:404a03058242, ...	220.132.185.10:...		



NXC5200 Routing Priority設定觀念





Object > Address

ZyXEL NXC5200

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CONFIGURATION

- + Routing
- + Zone
- + NAT
- + ALG
- + IP/MAC Binding
- + Captive Portal
- + Firewall
- + App Patrol
- [-] Anti-X
 - + Anti-Virus
 - + IDP
 - + ADP
- + Device HA
- [-] Object
 - + User/Group
 - + AP Profile
 - + MON Profile
 - + **Address**
 - + Service

Address | Address Group

Configuration

[Add](#) [Edit](#) [Remove](#) [Object Reference](#)

#	Name	Type	Address
1	LAN_SUBNET	INTERFACE SUBNET	vlan0-192.168.1.0/24
2	Local_68GW	HOST	172.24.68.254
3	VLAN100_subnet	SUBNET	192.168.168.0/24
4	ZyTP_10_1_subnet	SUBNET	10.1.1.0/24
5	ZyTP_172_16_subnet	SUBNET	172.16.0.0/12

Page 1 of 1 | Show 50 items | Displaying 1 - 5 of 5

ZyXEL Network > Policy Route

Welcome admin | Logout ? Help Z About Site Map Object Reference Console

ZyXEL NXC5200

CONFIGURATION

- Network
 - Interface
 - Routing**
 - Zone
 - NAT
 - ALG
 - IP/MAC Binding
 - Captive Portal
 - Firewall
 - IDP
 - ADP

Policy Route | Static Route

Show Advanced Settings

BWM Global Setting

Enable BWM

Configuration

ZyTP_172_and_10_subnet_Group

Description:

Members:
 ZyTP_172_16_subnet
 ZyTP_10_1_subnet

local_gw

IP Address: 172.24.68.254

#	Status	User	Schedule	Incoming	Source	Destination	DSCP Cod	Service	Next-Hop	DSCP Mar	SNAT	BWM
1		any	none	vlan100	VLAN100_subnet	ZyTP_172_and_10_subnet_Group	any	any	Local_68GW	preserve	outgoing-inter	0
2		any	none	vlan100	VLAN100_subnet	any	any	any	ge4	preserve	outgoing-inter	0

Page 1 of 1 | Show 50 items | Displaying 1 - 2 of 2

vlan100

IP Assignment: Static
 IP Address: 192.168.168.254
 Mask: 255.255.255.0

VLAN100_subnet

Subnet: 192.168.168.0/24

ge4

IP Assignment: Static
 IP Address: 220.128.160.44
 Mask: 255.255.255.240
 Status: 100M/Full

Priority 1 for 員工用
 Priority 2 for 訪客用



Policy Route #1 (連至內部網路用)

Edit Policy Route

Show Advanced Settings Create new Object

Configuration

Enable
Description: (Optional)

Criteria

User: any
Incoming: Interface
Please select one member: vlan100
Source Address: VLAN100_subnet
Destination Address: ZyTP_172_and_10_subnet_0
DSCP Code: any
Schedule: none
Service: any

Next-Hop

Type: Gateway
Gateway: Lodal_GW

DSCP Marking

DSCP Marking: preserve

Address Translation

Source Network Address Translation: outgoing-interface
Port Triggering

#	Incoming Service
---	------------------

OK Cancel



Policy Route #2 (連至外部網路用)

Edit Policy Route

Show Advanced Settings Create new Object

Configuration

Enable

Description: (Optional)

Criteria

User: any

Incoming: Interface

Please select one member: vlan100

Source Address: VLAN100_subnet

Destination Address: any

DSCP Code: any

Schedule: none

Service: any

Type: Interface

Interface: ge4

Auto-Disable

DSCP Marking

DSCP Marking: preserve

Address Translation

Source Network Address Translation: outgoing-interface



Object > Auth Method

ZyXEL NXC5200

CONFIGURATION

- Routing
- Zone
- NAT
- ALG
- IP/MAC Binding
- Captive Portal
- Firewall
- App Patrol
- Anti-X
 - Anti-Virus
 - IDP
 - ADP
- Device HA
- Object
 - User/Group
 - AP Profile
 - MON Profile
 - Address
 - Service
 - Schedule
 - AAA Server
 - Auth. Method**
 - Certificate

Authentication Method

Configuration

Add Edit Remove Object Reference

#	Method Name	Method List
1	default	local

Page 1 of 1 Show 50 items

Method List add radius-user





Captive portal (網頁認證)

General Settings

Enable Captive Portal
Authentication Method: default

Exceptional Services

1 BOOTP_CLIENT
2 DNS

Page 1 of 1 | Show 50 items

Authentication Policy Summary

Status	Priority	SSID Profile	Source	Destination	Schedule	Authentication	Description
💡	1	any	VLAN100_subnet	any	none	force	CSO_test
		Default	any	any	none	unnecessary	n/a

Page 1 of 1 | Show 50 items



Object > User/ Group

The screenshot shows the ZyXEL NXC5200 configuration interface. The left sidebar contains a 'CONFIGURATION' menu with 'Object' expanded to 'User/Group'. The main area shows a 'Configuration' table with columns for '#', 'User Name', and 'Description'. The table lists five users: 'admin', 'ldap-users', 'radius-users', 'ad-users', and 'jones'. The 'jones' user is highlighted with a red box. Below the table are navigation controls for 'Page 1 of 1' and 'Show 50 items'. A blue arrow points from the 'jones' row to the 'Edit User jones' dialog box.

#	User Name	Description
1	admin	Administration account
2	ldap-users	External LDAP Users
3	radius-users	External RADIUS Users
4	ad-users	External AD Users
5	jones	Local User

The 'Edit User jones' dialog box shows the following configuration details:

- User Name: jones
- User Type: user
- Password: [masked]
- Retype: [masked]
- Description: Local User
- Authentication Timeout Settings: Use Default Settings, Use Manual Settings
- Lease Time: 1440 minutes
- Reauthentication Time: 1440 minutes

Buttons: OK, Cancel



設定範例1: 如何將Thin AP(NWA5160N)設定為固定IP位址

```
Welcome to NWA5160N
Username: admin
Password:

Router> enable
Router#
Router# show version
ZyXEL Communications Corp.
model       : NWA5160N
firmware version: 2.17(AAS.1)
BM version  : 1.13
build date  : 2010-07-13 08:58:05
```

```
Router# configure terminal
Router(config)# capwap ap vlan ip
address
gateway
Router(config)# capwap ap vlan ip address
<W.X.Y.Z>
dhcp
Router(config)# capwap ap vlan ip address 192.168.1.198
<W.X.Y.Z>
Router(config)# capwap ap vlan ip address 192.168.1.198
255.255.255.0
Router(config)# capwap ap vlan ip gateway 192.168.1.254
Router(config)# write
Router(config)# exit
Router#
```

```
Router#
Router# show interface all
No. Name      Status      IP Address      Mask      IP
Assignment
=====
1 lan1        1000M/Full   0.0.0.0          0.0.0.0      Static
2 vlan1       Up           0.0.0.0          0.0.0.0      Static
3 br0         Up           192.168.1.198    255.255.255.0 Static
4 wlan-1      n/a         n/a              n/a          n/a
5 wlan-1-1    Up           0.0.0.0          0.0.0.0      static
6 wlan-1-2    Up           0.0.0.0          0.0.0.0      static
7 wlan-1-3    Up           0.0.0.0          0.0.0.0      static
```

```
Router# ping 192.168.1.254
PING 192.168.1.254 (192.168.1.254) 56(84) bytes of data.
64 bytes from 192.168.1.254: icmp_seq=1 ttl=64 time=1.42 ms
64 bytes from 192.168.1.254: icmp_seq=2 ttl=64 time=0.710 ms
64 bytes from 192.168.1.254: icmp_seq=3 ttl=64 time=0.736 ms-----
```



設定範例2: 遠端Thin AP NWA5160N指定至NXC5200 Controller 設定範例

```
Router# show version
ZyXEL Communications Corp.
model       : NWA5160N
firmware version: nwa5160n-2010-04-07
BM version  : 1.07
build date  : 2010-04-07 01:48:04
Router# configure terminal
Router(config)# capwap ap ac-ip 220.128.xx.xx 255.255.255.240
Router(config)# write
Router(config)# exit
Router# show capwap ap ac-ip
AC IP: 220.128.xx.xx 255.255.255.240
Router# ping 220.128.xx.xx
PING 220.128.xx.xx (220.128.xx.xx) 56(84) bytes of data.
64 bytes from 220.128.xx.xx: icmp_seq=1 ttl=57 time=193 ms
64 bytes from 220.128.xx.xx: icmp_seq=2 ttl=57 time=388 ms
64 bytes from 220.128.xx.xx: icmp_seq=3 ttl=57 time=453 ms

--- 220.128.xx.xx ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2020ms
rtt min/avg/max/mdev = 193.442/345.353/453.655/110.616 ms
Router# Generating a 512 bit RSA private key
.....+++++
....+++++
writing new private key to '/tmp/dtlsCA.pem'
-----
```

```
Router#
Router#
Router# show capwap ap info
SM-State          RUN(8)
msg-buf-usage     0/10 (Usage/Max)
capwap-version    10000
Radio Number      1/4 (Usage/Max)
BSS Number        8/8 (Usage/Max)
IANA ID           037a
Description        AP-404A03058242
Router#
Router#
Router#
Router#
Router# ping 168.95.1.1
PING 168.95.1.1 (168.95.1.1) 56(84) bytes of data.
64 bytes from 168.95.1.1: icmp_seq=1 ttl=247 time=86.1 ms
64 bytes from 168.95.1.1: icmp_seq=2 ttl=247 time=182 ms
64 bytes from 168.95.1.1: icmp_seq=3 ttl=247 time=240 ms
```



Remote site 筆電選取無線SSID

連線到網路

選取要連線的網路

顯示 無線

	tunnel_mode_SSID	具有安全性的網路	
	bridge_mode_SSID	具有安全性的網路	
	3205	具有安全性的網路	
	ZyXEL11	具有安全性的網路	

設定連線或網路
開啟網路和共用中心

連線(O)

連線到網路

輸入 tunnel_mode_SSID 的網路安全性金鑰或複雜密碼

設定網路的人員可以提供您金鑰或複雜密碼。

安全性金鑰或複雜密碼(S):
●●●●●●●●

顯示字元(D)

如果您有 [USB 快閃磁碟機](#)，且其具有 tunnel_mode_SSID 的網路設定，請立即將它插入。

連線 取消



Remote site 筆電可先取得IP位址 但還未授權故不可連至內網及外網

```
C:\Windows\system32\cmd.exe

無線區域網路介面卡 無線網路連線:

          連線特定 DNS 尾碼 . . . . . :
          連結-本機 IPv6 位址 . . . . . : fe80::dc10:d58f:bf5:
          IPv4 位址 . . . . . : 192.168.168.34
          子網路遮罩 . . . . . : 255.255.255.0
          預設閘道 . . . . . : 192.168.168.254

通道介面卡 區域連線* 6:
```

VLAN100

```
C:\Windows\system32\cmd.exe

Microsoft Windows [版本 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

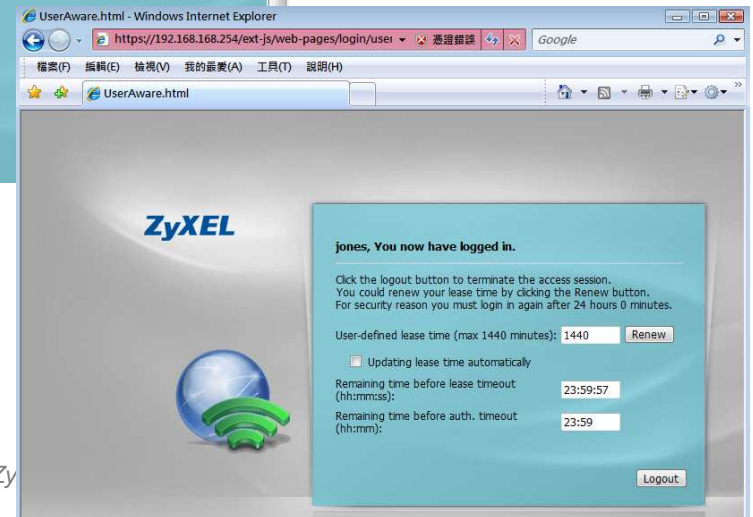
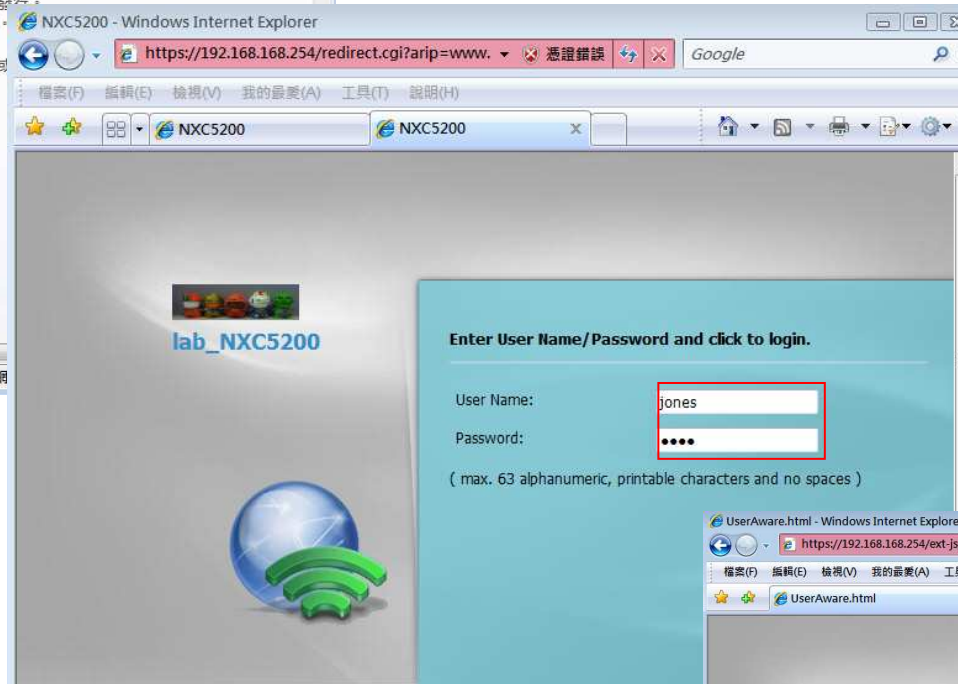
C:\Users\Jones>ping 168.95.1.1 -t

Ping 168.95.1.1 具有 32 位元組的資料:
回覆自 192.168.168.254: 目的地主機無法連線。
回覆自 192.168.168.254: 目的地主機無法連線。
回覆自 192.168.168.254: 目的地主機無法連線。
回覆自 192.168.168.254: 目的地主機無法連線。

168.95.1.1 的 Ping 統計資料:
    封包: 已傳送 = 4, 已收到 = 4, 已遺失 = 0 (0% 遺失),
Control-C
^C
C:\Users\Jones>
```



Captive portal (網頁認證)





Remote site 筆電可正常連至公司內網

無線網路連線狀態

一般

連線

IPv4 連線能力: 網路
IPv6 連線能力:
媒體狀態: E
SSID: tunnel_mode
連線時間: 1 天 16
速度: 54 C

訊號品質:

詳細資料(E)... 無線內容(W)

活動

已傳送 已收到
位元組: 747,430 6,920,045

內容(P) 停用(D) 診斷(G)

關閉(C)

```
C:\Windows\system32\cmd.exe - ping 172.24.68.254 -t
回 覆 自 172.24.68.254: 位元組=32 時間=38ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=62ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=55ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=49ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=48ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=37ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=51ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=37ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=36ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=39ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=34ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=35ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=38ms TTL=253
回 覆 自 172.24.68.254: 位元組=32 時間=37ms TTL=253
```

內網FTP

```
C:\Windows\system32\cmd.exe - ping 172.24.78.254 -t
回 覆 自 172.24.78.254: 位元組=32 時間=124ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=56ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=36ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=42ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=39ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=38ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=35ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=37ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=36ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=50ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=110ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=35ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=38ms TTL=253
回 覆 自 172.24.78.254: 位元組=32 時間=43ms TTL=253
```

FTP //public/driver/ 172.24.78.5 - Windows Internet Explorer

ftp://172.24.78.5/public/driver/

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

ZyXEL ENC FTP //publ...

FTP //public/driver/ 172.24.78.5

若要在 Windows 檔案總管中檢視此 FTP，請按一下 [頁面]，然後按一下 [在 Windows 檔案總管中開啟 FTP]。

09/02/2010 02:55 939,956 7 Zip.exe
11/05/2010 09:53
07/06/2009 12:00
08/11/2008 12:00 AR-MX_DRV_PCL6-Win2k-2k3-XP-Vista-ver0712
01/25/2010 12:00 36,742,379 EAV_V4_64bit.exe
02/22/2010 12:00 8,223,348 EPSON V300 Photo.EXE
09/30/2009 12:00 HP_2230s_Backup_20090930
10/30/2009 12:00 HP_ZyXP_20091029
04/10/2007 12:00 IBM ThinkPad X31 driver
09/26/2008 12:00 Lex6100
01/22/2010 12:00 33,711,210 NOD32 V4.exe

外網Internet

```
C:\Windows\system32\cmd.exe
最小值 = 47ms , 最大值 = 47ms , 平均 = 47ms
Control-C
C:\Users\Jones>ping 168.95.1.1 -t
Ping 168.95.1.1 具有 32 位元組的資料:
回 覆 自 168.95.1.1: 位元組=32 時間=36ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=45ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=36ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=62ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=44ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=39ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=83ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=108ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=63ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=60ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=45ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=48ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=57ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=102ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=116ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=217ms TTL=248
回 覆 自 168.95.1.1: 位元組=32 時間=36ms TTL=248
```

Google - Windows Internet Explorer

http://www.google.com.tw/

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

UserAware.html Google

所有網頁 圖片 影片 地圖 新聞 翻譯 Gmail 更多

Google 台灣

Google 搜尋 好手氣

把 Google 設為我的首頁

廣告服務 Google 完全手冊 Google.com in English

ZyXEL

Thank You

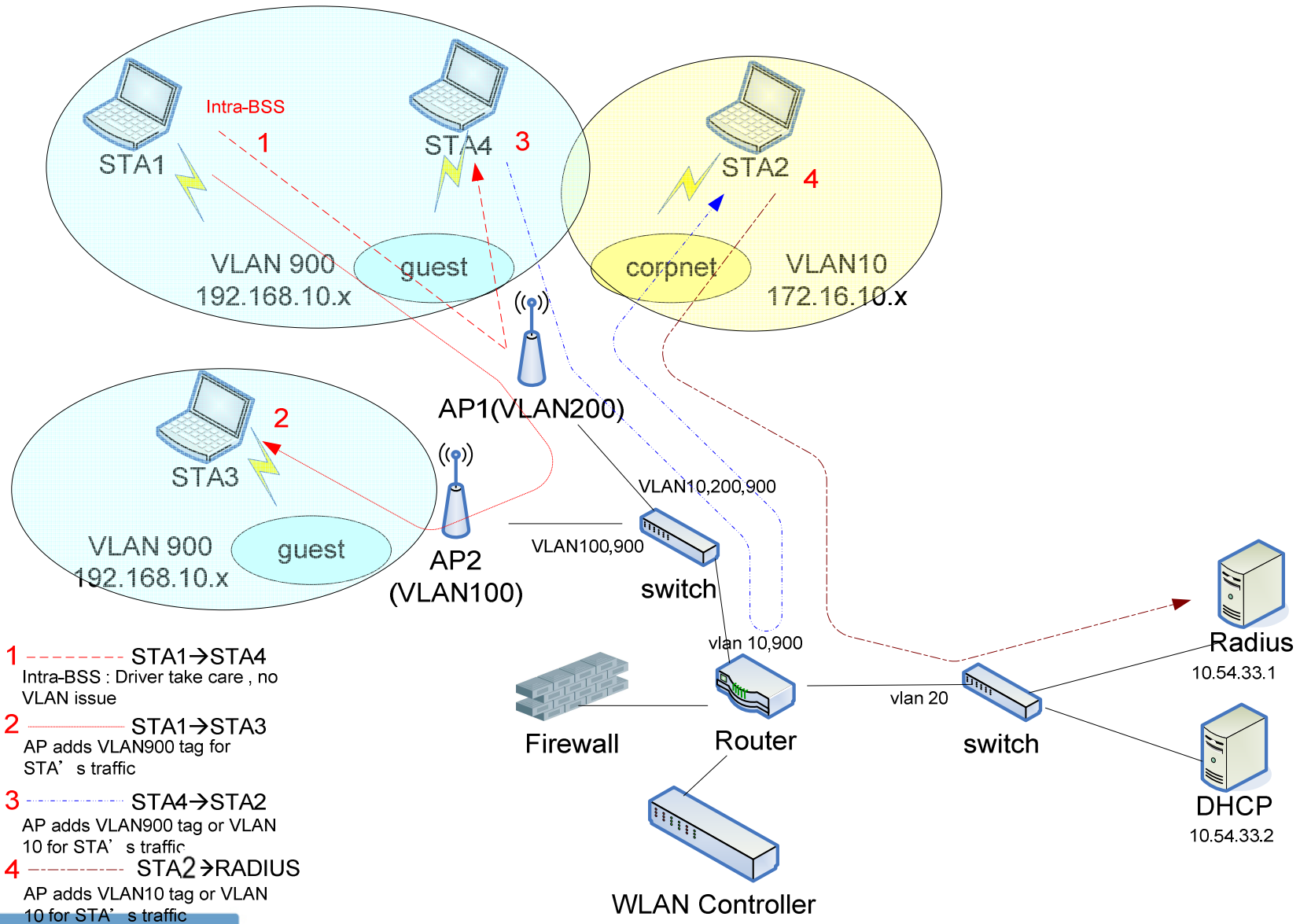


從·此·完·整

無線自由，大獲安全感

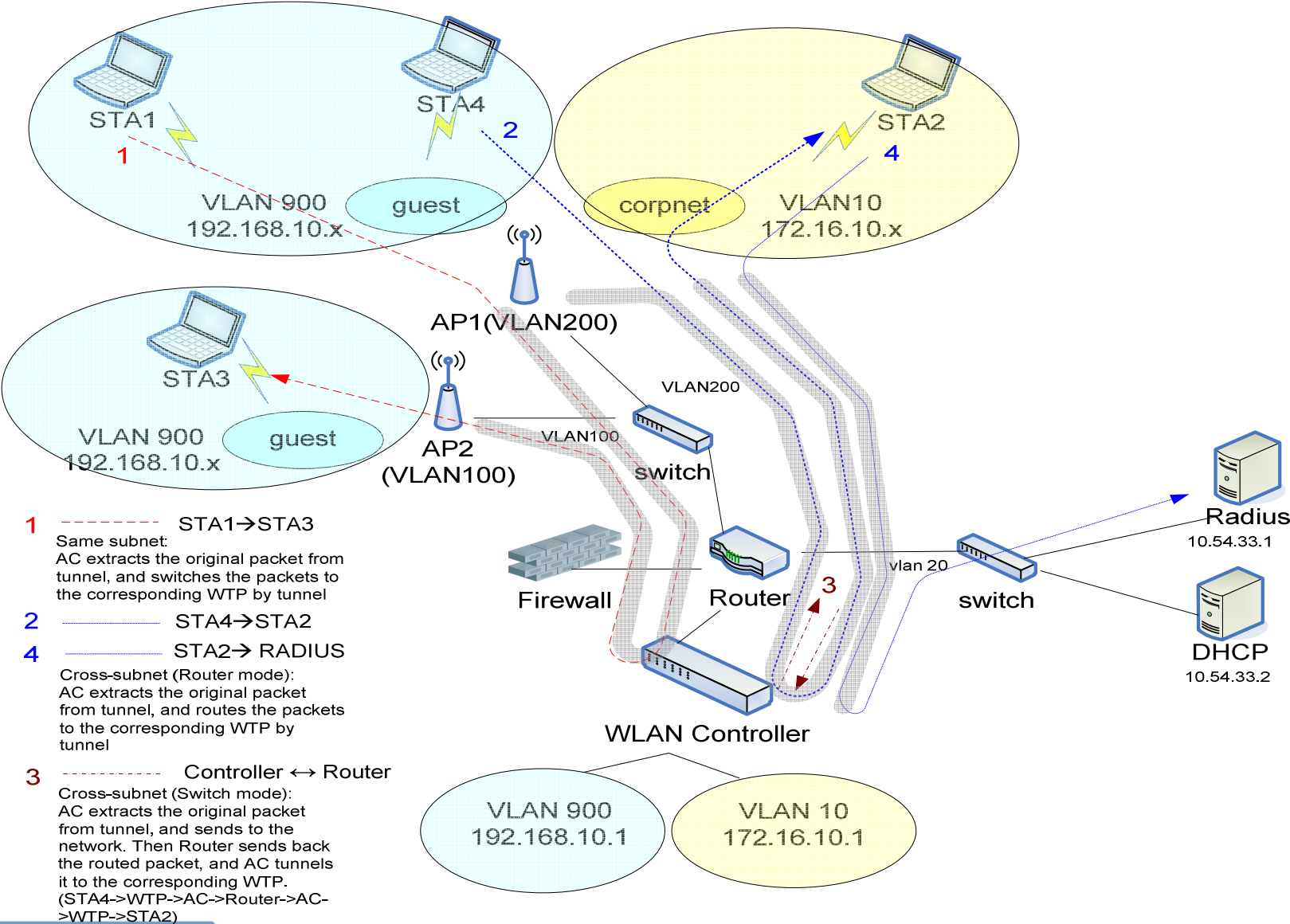


Local Bridge Mode





Tunnel Mode



Data Tunnel