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# PS-600TS



13-6

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## TS - 1

### ADSL(PPPoE) ( IP)

```
1. VANET> root
   Password : vanet
2. VANET # config
3. VANET (config)# line-protocol 1 pppoe //
4. VANET (config)# ip-address add 1 negotiate //
5. VANET (config)# ip-address add 0 <IP address> < Subnetmask>
6. VANET (config)# ip-address add 0 <IP address> < Subnetmask> secondary
   // 2 가
7. VANET (config)# pppoe [ ID] [ ]
8. VANET (config)# dhcp-server disable
9. VANET (config)# ip-route add 0.0.0.0 0.0.0.0 < IP> <metric>
10. VANET (config)# write
```

- < >
- 1.
- 2.
- 3. WAN ADSL modem(PPPoE)
- 4. WAN IP .( IP )
- 5. Gateway IP
- 6. 2 가 . (10 가가 )
- 7. ADSL PPPoE .( )
- 8. PC가 IP , DHCP Server가
- 9.
- Metric 2~255
- 10.

## CABLE ( IP)

```

1. VANET > root
   Password : vanet
2. VANET # config
3. VANET (config)# mac-address <aa:bb:cc:dd:ee:ff>
4. VANET (config)# line-protocol 1 ethernet
5. VANET (config)# ip-address add 1 negotiate //
6. VANET (config)# ip-address add 0 <IP address> < Subnetmask>
7. VANET (config)# ip-address add 0 <IP address> < Subnetmask> secondary
   //      2      가
8. VANET (config)# dhcp-server disable
9. VANET (config)# ip-route add 0.0.0.0 0.0.0.0 <      IP> <metric>
10. VANET (config)# write

```

< >

- 1.
- 2.
3. Cable Modem
  - MAC ( )
4. WAN Cable modem
5. WAN IP .( ip )
6. Gateway IP
7. 2 가 . (10 가가 )
8. PC가 IP , DHCP Server가
- 9.
- Metric 2~255
- 10.

## IP

- IP가
1. WAN IP : **211.32.101.2**
  2. : **255.255.255.0**
  3. Gateway : **211.32.101.1**

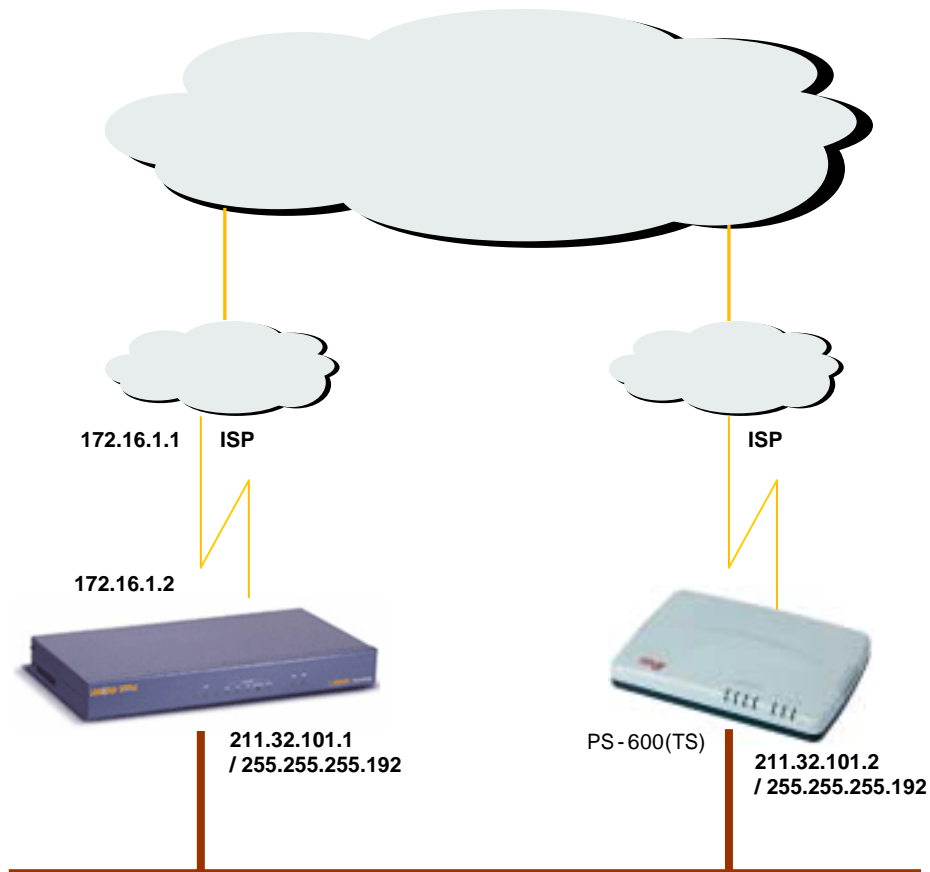
1. VANET > root  
Password : vanet
2. VANET # config
3. VANET (config)# line-protocol 1 ethernet
4. VANET (config)# ip-address add 1 **211.32.101.2 255.255.255.0**
5. VANET (config)# ip-route add 0.0.0.0 0.0.0.0 **211.32.101.1**
6. VANET (config)# ip-address add 0 <IP address> < Subnetmask>
7. VANET (config)# ip-address add 0 <IP address> < Subnetmask> secondary  
// 2 가
8. VANET (config)# dhcp-server disable
9. VANET (config)# ip-route add 0.0.0.0 0.0.0.0 < IP> <metric>
10. VANET (config)# write

- < >
- 1.
- 2.
3. WAN Ethernet
4. WAN ISP IP
5. (Gateway)
6. Gateway IP
7. 2 가 . (10 가가 )
8. PC가 IP , DHCP Server가
- 9.
- Metric 2~255
10. ..
- Cable Modem <CABLE ( IP)> 3
- (mac-address) 가

## TS - 2

&lt; &gt;

1. Ethernet IP : 211.32.101.1
2. Ethernet Subnetmask : 255.255.255.192
3. ISP( ) DNS :203.239.130.1
4. DNS :168.126.63.1
5. ADSL( ip) , ' vanet' , ' vanet'  
, Ethernet IP 211.32.101.0 / 255.255.255.192 IP  
, 211.32.101.2 / 255.255.255.192 가 .



```
1. VANET(config)# ip-traffic filter set deny
2. VANET(config)# ip-traffic filter add permit all all all all < > <number>
3. VANET(config)# ip-traffic gateway add 211.32.101.1 // IP
4. VANET(config)# ip-route add 203.239.130.1 255.255.255.255 211.32.101.1
5. VANET(config)# ip-traffic check add 203.239.130.1
6. VANET(config)#line-check add 1 168.126.63.1 211.32.101.1
7. VANET(config)# write
```

< >

1.

2.

: tcp, udp, ip, icmp

number : 1~65535 , < > < >

3. Ethernet ip gateway .

4. ISP DNS

5. ISP DNS ip .

6. DNS

7.

&lt; &gt;

```

Vanet(config)#ip-traffic filter set deny
//
Vanet(config)#ip-traffic filter add permit all all all all tcp 6112
//
Vanet(config)#ip-traffic filter add permit all all all all udp 6112
//
Vanet(config)#ip-traffic filter add permit all all all all tcp 4000
//
Vanet(config)#ip-traffic filter add permit all all all all tcp 41800 41899
//      :   가   PC   (   )
Vanet(config)#ip-traffic filter add permit all all all all tcp 1950 2002
Vanet(config)#ip-traffic filter add permit all all all all tcp 2004 2200
//      (   ,   )
Vanet(config)#ip-traffic gateway add 211.32.101.1
//      IP
Vanet(config)#ip-route add 0.0.0.0 0.0.0.0 211.32.101.1 10
//      =>
Vanet(config)#write
//

```

- 1.VANET(config)# ip - traffic filter set permit
2. VANET(config)# ip - traffic filter add deny all all all all < > <number>
- 3.VANET(config)# ip - traffic gateway add 211.32.101.1 // IP
- 4.VANET(config)# ip - route add 203.239.130.1 255.255.255.255 211.32.101.1
- 5.VANET(config)# ip - traffic check add 203.239.130.1
6. VANET(config)#line - check add 1 168.126.63.1 211.32.101.1
- 7.VANET(config)# write

&lt; &gt;

1.

2.

: tcp, udp, ip, icmp

number : 1~65535

&lt; &gt; &lt; &gt;

3.

Ethernet ip gateway

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4. ISP DNS

5. ISP DNS ip

6. DNS

7.

< >

```
Vanet(config)#ip-traffic filter set permit
//
Vanet(config)#ip-traffic filter add deny all all all all tcp www
//
Vanet(config)#ip-traffic filter add deny all all all all tcp 8000
//
Vanet(config)#ip-traffic filter add deny all all all all tcp 8080
//
Vanet(config)#ip-traffic filter add deny all all all all tcp ftp
// FTP
Vanet(config)#ip-traffic filter add deny all all all all tcp 1755
//VOD
Vanet(config)#ip-traffic filter add deny all all all all tcp 2003
//
Vanet(config)#ip-traffic filter add deny all all all all tcp 9001 9004
// ( )
Vanet(config)#ip-traffic filter add deny all all all all udp 9002 9999
// ( )

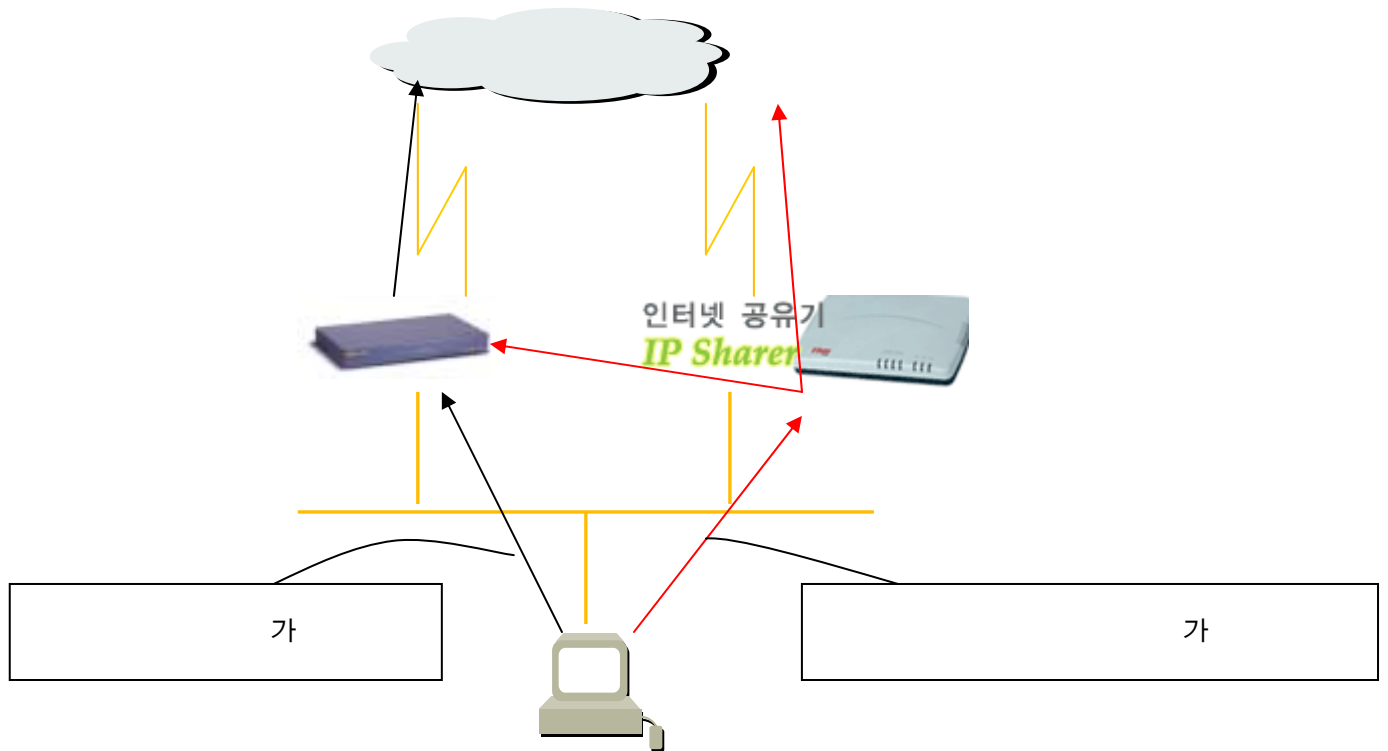
Vanet(config)#ip-traffic gateway add 211.32.101.1
// IP
Vanet(config)#ip-route add 0.0.0.0 0.0.0.0 211.32.101.1 10
// =>
Vanet(config)#write
//
```



## ICMP ROUTER DISCOVERY

PC ICMP Router Discovery Protocol

가 routing



pc가

advertisement packet

### Advertisement packet

- 1.
2. ethernet

## DISCOVERY

1. PC가 routing .
2. pc .
3. pc packet .
4. packet .

## DISCOVERY

1. gateway .  
 PC gateway ,  
 gateway preference  
 default gateway .
2. 가 hello packet , 가 .

<b>Discovery enable</b>	<b>Discovery</b> .
<b>Discovery disable</b>	<b>Discovery</b> .
<b>Discovery lifetime &lt;time&gt;</b>	<b>Hello packet time</b> .
<b>Discovery preference &lt;metric&gt;</b>	<b>Preference</b> .

*<lifetime>* 가 discovery

*<prefernce>* preference

## PS-600(TS)

```
VANET(config)# discovery enable
VANET(config)# discovery lifetime 30
VANET(config)# discovery preference 990
VANET(config)# write
```

1. Discovery .
2. 가 가 lifetime .  
lifetime : 30
3. preference .  
preference : 990
4. .

## pc

- 1.default gateway Ethernet ip metric 100 .  
가 preference .
- 2.router discovery PerformRouterDiscovery .
3. 가 , 가 dead  
gateway detect DeadGWDetect .

## WINDOWS 95, 98

### 1. default gateway metric

Batch

batch

```
c: \> Copy con default_metric.bat
route delete 0.0.0.0
route add 0.0.0.0 mask 0.0.0.0 < gateway ip> metric 100
route add 0.0.0.0 mask 0.0.0.0 < gateway ip> metric 1
ctrl+z
```

```
c: \> default_metric.bat
```

Pc가

### 1. PerformRouterDiscovery

Window 95, 98 PerformRouterDiscovery default

### 2. DeadGWDetect

[HKEY\_LOCAL\_MACHINE \ System \ CurrentControlSet \ Services \ VxD \ mstcp

EnableDeadGWDetect Dword 0

PC registry DWORD

EnableDeadGWDetect

## WINDOWS ME

### 1. default gateway metric

Batch

batch

```
c: \> Copy con default_metric.bat
route delete 0.0.0.0
route add 0.0.0.0 mask 0.0.0.0 < gateway ip> metric 100
route add 0.0.0.0 mask 0.0.0.0 < gateway ip> metric 1
ctrl+z
```

c: \> default\_metric.bat . Pc가

### 2. PerformRouterDiscovery

[HKEY\_LOCAL\_MACHINE\System \ CurrentControlSet \ Services \ Class \ Netrans

Ethernet IP address

PerformRouterDiscovery = " 1"

PC registry

DWORD

PerformRouterDiscovery

### 3. DeadGWDetect

[HKEY\_LOCAL\_MACHINE \ System \ CurrentControlSet \ Services \ VxD \ mstep

EnableDeadGWDetect Dword 0

PC registry

DWORD

EnableDeadGWDetect

## WINDOWS 2000, XP

### 1. default gateway

```
pc tcp/ip default gateway ,  
 , metric 100
```

### 2. PerformRouterDiscovery

```
[HKEY_LOCAL_MACHINE \ SYSTEM \ CurrentControlSet \ Services \ Tcip \  
Parameters \ Interfaces \ Ethernet IP address
```

```
“ PerformRouterDiscovery” = “ 1”
```

```
PC registry DWORD  
PerformRouterDiscovery
```

### 3. DeadGWDetect

```
[HKEY_LOCAL_MACHINE \ SYSTEM \ CurrentControlSet \ Services \ Tcip \  
Parameters \
```

```
“ EnableDeadGwDetect” = “ 0”
```

```
PC registry DWORD  
EnableDeadGWDetect
```

show nat all

WAN

ip - traffic

filter

VaNet# sh nat all

(1/0/0, 438/0/0, 0/0)

Pro	Pri_SIP (A:P)	Pub_SIP (A:P)	Pub_DIP (A:P)	Time
O TCP	192.168.0.254:3164	61.73.128.44:39917	<b>211.233.27.243:1755</b>	3600
O TCP	192.168.0.253:3159	61.73.128.44:39911	<b>211.239.123.233:80</b>	3579
O TCP	192.168.0.254:3158	61.73.128.44:39910	<b>211.239.123.233:80</b>	3579
O TCP	192.168.0.252:3142	61.73.128.44:39894	<b>203.235.121.25:2176</b>	3600
O TCP	192.168.0.254:3138	61.73.128.44:39890	<b>203.235.121.25:21</b>	3526
O TCP	192.168.0.252:3136	61.73.128.251:39821	<b>203.235.121.25:2116</b>	3452
O TCP	192.168.0.254:3135	61.73.128.251:39820	<b>203.235.121.25:21</b>	3326

- : Pro → Protocol
- Pri\_SIP(A:P) → Private\_Source ip(address:port)
- Pub\_SIP(A:P) → Public\_Source ip(address:port)
- Pub - DIP(A:P) → Public\_Destination ip(address:port)

→ : 192.168.0.254 pc가 61.73.128.44 ip  
211.233.27.243 가 TCP 1755

→ : ip port  
가 .

---

1. 5~7 “ ” Console

2. 가

(3 )

3. “ E” “ C”

4. Console “ Erasing Configuration” 가

5.

4.11  
 , “ICMP Router Discovery” Disable

FAQ

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