

DHCP Option 82 SNR

- DHCP Snooping Option 82
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 - Standard
 - Self-defined
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 - Agent Circuit ID
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 - Agent Circuit ID
 - Standard
 - Self-defined
 - Agent Circuit ID
 - Agent Remote ID
 - Standard
 - Self-defined
 - Agent Remote ID
- (Delimiter) IP DHCP Option 82

DHCP Option 82 - DHCP, DHCP- , DHCP- . IP- .

SNR DHCP Option 82 DHCP Snooping (ip dhcp snooping information option), DHCP Relay (ip dhcp relay information option).

 !
DHCP Snooping Information Option DHCP Relay Information Option !

Option 82 suboptions:

- Agent Circuit ID - , ;
- Agent Remote ID - .

DHCP Snooping Option 82

Option 82 DHCP Snooping SNR.

Agent Circuit ID

Standard

Agent Circuit ID. , SNR Agent Circuit ID VLAN + Interface name ASCII:

▼ Option: (82) Agent Information Option

Length: 32

▼ Option 82 Suboption: (1) Agent Circuit ID

Length: 22

Agent Circuit ID: 566c616e3333333332b45746865726e6574312f302f32

▼ Option 82 Suboption: (2) Agent Remote ID

Length: 6

Agent Remote ID: f8f08279069f

0140 2c 2e 2f 1f 21 79 f9 2b 52 20 01 16 56 6c 61 6e , ./!y.+ R ..Vlan

0150 33 33 33 33 2b 45 74 68 65 72 6e 65 74 31 2f 30 3333+Eth ernet1/0

0160 2f 32 02 06 f8 f0 82 79 06 9f ff /2.....y ...

:

```
ip dhcp snooping information option subscriber-id format {ascii | hex | vs-hp | vs-huawei | vs-cisco}
```


▼ Option 82 Suboption: (1) Agent Circuit ID	
Length: 6	
Agent Circuit ID: 0004014d0003	
▼ Option 82 Suboption: (2) Agent Remote ID	
Length: 6	
Agent Remote ID: f8f0827a8e93	
▼ Option: (255) End	
Option End: 255	
Padding: 00	
0120	0a 0a 01 32 04 0a 0a 0a 0a 0c 08 73 6e 72 2d 74 ...2...snr-t
0130	65 61 6d 37 0d 01 1c 02 03 0f 06 77 0c 2c 2f 1a eam7...w./
0140	79 2a 52 10 01 06 00 04 01 4d 00 03 02 06 f8 f0 y*R...M...
0150	82 7a 8e 93 ff 00 .Z...

- :
- 00 - ;
 - 04 - ;
 - 014d - VLAN ID;
 - 0003 -

Self-defined

, Agent Circuit ID Self-defined. Agent Circuit ID Self-defined :

```
ip dhcp snooping information option self-defined subscriber-id {id | port | vlan | string}
```

- :
- port - , Ethernet;
 - id remote-mac - MAC- ;
 - id switch-id ma - VLAN MAC- ;
 - switch-id - hostname, ASCII, - ;
 - vlan - VLAN ID, 'Vlan';
 - string - ASCII.

:

port	-	Ethernet1/0/2
id remote-mac	-	1c-75-08-f4-2d-3b
id switch-id ma	-	f8-f0-82-79-06-9f
switch-id	-	SNR-S2995G-24TX
vlan	-	Vlan3333
string	-	test

,:

```
ip dhcp snooping information option self-defined subscriber-id port vlan id remote-mac
```

Self-defined - ASCII, :

```
ip dhcp snooping information option self-defined subscriber-id format {ASCII | HEX}
```

- HEX, 'port' 'VLAN' :
- vlan - VLAN ID;
 - port - '01' - () + '00' - () + .

, Ethernet1/0/2 '01000002'


!

String/Hostname Self-defined ASCII-!

String . , , :

```
ip dhcp snooping information option subscriber-id 1/0/2
```

Self-defined Agent Circuit ID SNR S2962, S2965, S2982G S2985G

SNR S2962, S2965, S2982G S2985G Self-defined :

```
ip dhcp snooping information option subscriber-id {%h | %v | %M | %m | %R | %r | %S | %p | %i}
```

:

- %h - hostname;
- %v - VLAN ID;
- %M - VLAN MAC- ;
- %m - VLAN MAC- ;
- %R - MAC- ;
- %r - MAC- ;
- %S - ;
- %p - ;
- %i - IP- .

:

```
%h - SNR-S2995G-24TX
%v - 3333
%M - F8-F0-82-79-06-9F
%m - f8-f0-82-79-06-9f
%R - 1C-75-08-F4-2D-3B
%r - 1c-75-08-f4-2d-3b
%S - - 1
%p - 5
%i - DHCP Discover 0.0.0.0
```

```
ip dhcp snooping information option subscriber-id "%v%p"
```



!

subscriber-id , "%v%p".

ASCII, :

```
ip dhcp snooping information option subscriber-id format {ASCII | HEX}
```

Agent Circuit ID

, Information Option Subscriber ID , . Information Option Self-defined Subscriber ID Information Option Subscriber ID, Self-defined . :

1. Information Option Subscriber ID ;
2. Information Option Self-defined Subscriber ID ;
3. Information Option Subscriber ID .

Agent Remote ID

Standard

Agent Remote ID. , SNR Agent Remote ID VLAN MAC- :

- ▼ Option: (82) Agent Information Option
Length: 32
 - ▶ Option 82 Suboption: (1) Agent Circuit ID
 - ▼ Option 82 Suboption: (2) Agent Remote ID
Length: 6

Agent Remote ID: f8f08279069f

:

```
ip dhcp snooping information option remote-id format {'WORD' | vs-cisco | vs-huawei}
```

. VS-Cisco VLAN MAC- :

- ▼ Option: (82) Agent Information Option
Length: 34
 - ▶ Option 82 Suboption: (1) Agent Circuit ID
 - ▼ Option 82 Suboption: (2) Agent Remote ID
Length: 8

Agent Remote ID: 0006f8f08279069f

:

- 00 - ;
- 06 - ;

VS-Cisco HEX-.

VS-Huawei:

- ▼ Option: (82) Agent Information Option
Length: 40
 - ▶ Option 82 Suboption: (1) Agent Circuit ID
 - ▼ Option 82 Suboption: (2) Agent Remote ID
Length: 14
Agent Remote ID: 663866302d383237392d30363966

0150	33 30 30 30 2b 45 74 68 65 72 6e 65 74 31 2f 30	3000+Eth ernet1/0
0160	2f 31 02 0e 66 38 66 30 2d 38 32 37 39 2d 30 36	/1..f8f0 -8279-06
0170	39 66 ff	9f.

VS-Huawei HEX-, MAC-.

Remote ID:

- ▼ Option: (82) Agent Information Option
Length: 30
 - ▶ Option 82 Suboption: (1) Agent Circuit ID
 - ▼ Option 82 Suboption: (2) Agent Remote ID
Length: 4

Agent Remote ID: 74657374

- ▼ Option: (255) End
Option End: 255

0140	2c 2e 2f 1f 21 79 f9 2b 52 1e 01 16 56 6c 61 6e	,./..!y.+ R...Vlan
0150	33 30 30 30 2b 45 74 68 65 72 6e 65 74 31 2f 30	3000+Eth ernet1/0
0160	2f 31 02 04 74 65 73 74 ff	/1..test .

Self-defined

, Agent Remote ID Self-defined. Agent Remote ID Self-defined :

```
ip dhcp snooping information option self-defined remote-id {hostname | mac | string}
```

:

- mac - VLAN MAC- ;
- hostname - ASCII, -;
- string - ASCII.

:

```
ma      -      f8-f0-82-79-06-9f
hostname -      SNR-S2995G-24TX
string  -      test
```

,:

```
ip dhcp snooping information option self-defined remote-id port hostname mac string
```

Self-defined ASCII, :

```
ip dhcp snooping information option self-defined subscriber-id format {ASCII | HEX}
```



!

String/Hostname Self-defined ASCII-!

Self-defined Agent Remote ID SNR S2962, S2965, S2982G S2985G

SNR S2962, S2965, S2982G S2985G Self-defined :

```
ip dhcp snooping information option self-defined remote-id {%h | %v | %M | %m | %R | %r | %s | %p | %i}
```

:

- %h - hostname;
- %v - VLAN ID;
- %M - VLAN MAC- ;
- %m - VLAN MAC- ;
- %R - MAC- ;
- %r - MAC- ;
- %s - ;
- %p - ;
- %i - IP- .

:

```
%h      -      SNR-S2985G-24T
%v      -      3333
%M      -      F8-F0-82-79-06-9F
%m      -      f8-f0-82-79-06-9f
%R      -      1C-75-08-F4-2D-3B
%r      -      1c-75-08-f4-2d-3b
%s      -      - 1
%p      -      5
%i      -      DHCP Discover 0.0.0.0
```



!

remote-id , "%v%r".

. , , 2, "-" ("/"):

```
ip dhcp snooping information option self-defined remote-id "-%p"
```

Agent Remote ID

Information Option Self-defined Remote ID Information Option Remote ID, Self-defined . :

1. Information Option Self-defined Remote ID;
2. Information Option Remote ID.

IP DHCP Snooping Information Option allow-untrusted

DHCP Snooping SNR DHCP- Discover Request , Option 82. , DHCP Snooping, Trust- - , , DHCP- Discover Request Option 82.

```
ip dhcp snooping information option allow-untrusted
```

82 , :

```
ip dhcp snooping information option allow-untrusted replace
```

IP DHCP Snooping Information Option reply keep

, DHCP- Offer Ack Option 82, . :

```
ip dhcp snooping information option reply keep
```

DHCP Relay Option 82

Option 82 DHCP Relay SNR.

Agent Circuit ID

Standard

Agent Circuit ID. , SNR Agent Circuit ID VLAN + Interface name ASCII:

```
▼ Option: (82) Agent Information Option
  Length: 32
  ▼ Option 82 Suboption: (1) Agent Circuit ID
    Length: 22
    Agent Circuit ID: 566c616e3333333332b45746865726e6574312f302f32
  ▼ Option 82 Suboption: (2) Agent Remote ID
    Length: 6
    Agent Remote ID: f8f08279069f
```

0140	2c 2e 2f 1f 21 79 f9 2b 52 20 01 16 56 6c 61 6e	,./.!y.+ R ..Vlan
0150	33 33 33 33 2b 45 74 68 65 72 6e 65 74 31 2f 30	3333+Eth ernet1/0
0160	2f 32 02 06 f8 f0 82 79 06 9f ff	/2.....y ...

:

```
ip dhcp relay information option subscriber-id format {ascii | hex | vs-hp | vs-cisco}
```



!

Subscriber ID = Circuit ID

. HEX:

▼ Option: (82) Agent Information Option		
Length: 18		
▼ Option 82 Suboption: (1) Agent Circuit ID		
Length: 8		
Agent Circuit ID: 00060d0501000002		
▼ Option 82 Suboption: (2) Agent Remote ID		
Length: 6		
Agent Remote ID: f8f08279069f		
0120	1c 75 08 f4 2d 3b 0c 08 4b 61 74 79 61 2d 8f 8a	·u···;·· Katya··
0130	3c 08 4d 53 46 54 20 35 2e 30 37 0c 01 0f 03 06	<·MSFT 5 .07····
0140	2c 2e 2f 1f 21 79 f9 2b 52 12 01 08 00 06 0d 05	,./·!y·+ R····
0150	01 00 00 02 02 06 f8 f0 82 79 06 9f ff	·······y··

:

- 00 - ;
- 06 - ;
- 0d05 - VLAN ID;
- 01 - ();
- 00 - ();
- 0002 - .

VS-HP:

▼ Option 82 Suboption: (1) Agent Circuit ID		
Length: 2		
Agent Circuit ID: 0002		
▼ Option 82 Suboption: (2) Agent Remote ID		
Length: 6		
Agent Remote ID: f8f08279069f		
0130	3c 08 4d 53 46 54 20 35 2e 30 37 0c 01 0f 03 06	<·MSFT 5 .07····
0140	2c 2e 2f 1f 21 79 f9 2b 52 0c 01 02 00 02 02 06	,./·!y·+ R····
0150	f8 f0 82 79 06 9f ff	··y··

:

- 0002 - .

VS-Cisco:

▼ Option 82 Suboption: (1) Agent Circuit ID		
Length: 6		
Agent Circuit ID: 0004014d0003		
▶ Option 82 Suboption: (2) Agent Remote ID		
▶ Option: (255) End		
Padding: 00000000000000		
0130	1c 02 03 0f 06 77 0c 2c 2f 1a 79 2a 52 10 01 06	·····w·, /·y·R··
0140	00 04 01 4d 00 03 02 06 f8 f0 82 7a 8e 93 ff 00	···M·····Z····
0150	00 00 00 00 00 00	·····

:

- 00 - ;
- 04 - ;
- 014d - VLAN ID;
- 0003 -

SNR S2962, S2965, S2982G S2985G Agent Circuit ID SVI- :

```
ip dhcp relay information option subscriber-id {%h | %v | %M | %m | %R | %r | %s | %p | %i}
```

:

- %h - hostname;
- %v - VLAN ID;
- %M - VLAN MAC- ;

- %m - VLAN MAC- ;
- %R - MAC- ;
- %r - MAC- ;
- %s - ;
- %p - ;
- %i - IP- .

:

```
%h - SNR-S2985G-24T
%v - 3333
%M - F8-F0-82-79-06-9F
%m - f8-f0-82-79-06-9f
%R - 1C-75-08-F4-2D-3B
%r - 1c-75-08-f4-2d-3b
%S - - 1
%p - 5
%i - DHCP Discover 0.0.0.0
```

Self-defined

, Agent Circuit ID Self-defined. Agent Circuit ID Self-defined :

```
ip dhcp relay information option self-defined subscriber-id {id | port | vlan | string}
```

:

- port - , Ethernet;
- id remote-mac - MAC- ;
- id switch-id ma - VLAN MAC- ;
- switch-id - hostname, ASCII, - ;
- vlan - VLAN ID, 'Vlan';
- string - ASCII.

:

```
port - Ethernet1/0/2
id remote-mac - 1c-75-08-f4-2d-3b
id switch-id ma - f8-f0-82-79-06-9f
switch-id - SNR-S2995G-24TX
vlan - Vlan3333
string - test
```

,:

```
ip dhcp relay option self-defined subscriber-id port vlan id remote-mac
```

Self-defined - ASCII, :

```
ip dhcp relay information option self-defined subscriber-id format {ASCII | HEX}
```

HEX, 'port' 'VLAN' :

- vlan - VLAN ID;
- port - '01' - () + '00' - () + .

, Ethernet1/0/2 '01000002'



!

String/Hostname Self-defined ASCII-

Agent Circuit ID

, Information Option Self-defined Subscriber ID Information Option Subscriber ID, Self-defined . :

1. Information Option Self-defined Subscriber ID;
2. Information Option Subscriber ID.

Agent Remote ID

Standard

Agent Remote ID. , SNR Agent Remote ID VLAN MAC- :

```

▼ Option: (82) Agent Information Option
  Length: 32
  ▶ Option 82 Suboption: (1) Agent Circuit ID
  ▼ Option 82 Suboption: (2) Agent Remote ID
    Length: 6
    Agent Remote ID: f8f08279069f

```

:

```
ip dhcp relay information option remote-id format {default | vs-hp}
```

VS-HP Remote ID IP- , Helper-address (10.10.10.10):

```

▼ Option: (82) Agent Information Option
  Length: 30
  ▶ Option 82 Suboption: (1) Agent Circuit ID
  ▼ Option 82 Suboption: (2) Agent Remote ID
    Length: 4
    Agent Remote ID: 0a0a0a0a
- Option: (255) End

```

Self-defined

, Agent Remote ID Self-defined. Agent Remote ID Self-defined :

```
ip dhcp relay information option self-defined remote-id {hostname | mac | string}
```

:

- mac - VLAN MAC- ;
- hostname - ASCII, - ;
- string - ASCII.

:

```

ma      -      f8-f0-82-79-06-9f
hostname -      SNR-S2995G-24TX
string  -      test

```

,:

```
ip dhcp snooping information option self-defined remote-id port hostname mac string
```

Self-defined ASCII, :

```
ip dhcp snooping information option self-defined subscriber-id format {ASCII | HEX}
```



!

String/Hostname Self-defined ASCII-!

Agent Remote ID

Information Option Self-defined Remote ID Information Option Remote ID, Self-defined . :

1. Information Option Self-defined Remote ID;

2. Information Option Remote ID.

(Delimiter) IP DHCP Option 82

Self-defined, () "/":

▼ Option: (82) Agent Information Option
Length: 84

▼ Option 82 Suboption: (1) Agent Circuit ID
Length: 40

Agent Circuit ID: 566c616e333030302f45746865726e6574312f302f312f31...

▼ Option 82 Suboption: (2) Agent Remote ID
Length: 40

Agent Remote ID: 66382d66302d38322d37392d30362d39662f534e522d5332...

0140	2c 2e 2f 1f 21 79 f9 2b 52 54 01 28 56 6c 61 6e	, ./ .!y + RT (Vlan
0150	33 30 30 30 2f 45 74 68 65 72 6e 65 74 31 2f 30	3000/Eth ernet1/0
0160	2f 31 2f 31 63 2d 37 35 2d 30 38 2d 66 34 2d 32	/1/1c-75 -08-f4-2
0170	64 2d 33 62 02 28 66 38 2d 66 30 2d 38 32 2d 37	d-3b (f8 -f0-82-7
0180	39 2d 30 36 2d 39 66 2f 53 4e 52 2d 53 32 39 39	9-06-9f/ SNR-S299
0190	35 47 2d 32 34 54 58 2f 22 74 65 73 74 22 ff	5G-24TX/ "test".

, :

```
ip dhcp {snooping | relay} information option delimiter <>
```

:

- colon(':');
- dot('.');
- none;
- slash('/');
- space(' ').



!

'none' SNR S2962, S2965, S2982G S2985G.