

连结7000 : 了解和Remediating ARP探测器消息

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概述

本文是帮助与了解和remediating错误消息的原因。

```
2013 Oct 25 15:23:17 N7K %ARP-3-DUP_VADDR_SRC_IP_PROBE: arp [4650] Duplicate address
Detected. Probe packet received from 34bd.c8a3.ce30 on Vlan99(port-channel46) with destination
set to our local Virtual ip, 10.10.10.1
2013 Oct 25 15:23:35 N7K %ARP-3-DUP_SRC_IP_PROBE: arp [4650] Duplicate address Detected.
Probe packet received from 34bd.c8a3.ce30 on Vlan109(port-channel46) with destination set to
our local ip, 10.10.10.2
```

什么是ARP探测器？

ARP探测器是ARP请求修建用全部清零发送方IP地址。用语用于IPv4地址冲突检测规格(RFC 5227)。在开始使用IPv4地址(前是否接收从手动配置、DHCP，或者一些其它方法)，实现此规格的主机必须测试通过广播ARP探测器发现地址是否已经是在使用中的， packets.[8]

排除故障

这些ARP探测器由属于没有在该VLAN的一SVI的交换机的MAC地址发送。

在进一步调查，这些是IOS设备发送的ARP探针信息包运行IP设备跟踪功能。

这是数据包的示例Ethanalyzer捕获：

```
N7K# ethanalyzer local interface inband capture-filter "ether src 34:bd:c8:a3:ce:30 and arp and
host 10.10.10.2" detail
Capturing on inband
Frame 1 (60 bytes on wire, 60 bytes captured)
  Arrival Time: Oct 25, 2013 15:28:59.577664000
  [Time delta from previous captured frame: 0.000000000 seconds]
  [Time delta from previous displayed frame: 0.000000000 seconds]
  [Time since reference or first frame: 0.000000000 seconds]
  Frame Number: 1
  Frame Length: 60 bytes
  Capture Length: 60 bytes
  [Frame is marked: False]
  [Protocols in frame: eth:arp]
Ethernet II, Src: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30), Dst: c0:62:6b:ae:03:c1
(c0:62:6b:ae:03:c1)
```

```

Destination: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
  Address: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
    .... .0 .... = IG bit: Individual address (unicast)
    .... .0. .... = LG bit: Globally unique address (factory default)
Source: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
  Address: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
    .... .0 .... = IG bit: Individual address (unicast)
    .... .0. .... = LG bit: Globally unique address (factory default)
Type: ARP (0x0806)
Trailer: 00000000000000000000000000000000
Address Resolution Protocol (request)
  Hardware type: Ethernet (0x0001)
  Protocol type: IP (0x0800)
  Hardware size: 6
  Protocol size: 4
  Opcode: request (0x0001)
  [Is gratuitous: False]
  Sender MAC address: 34:bd:c8:a3:ce:30 (34:bd:c8:a3:ce:30)
  Sender IP address: 0.0.0.0 (0.0.0.0)
  Target MAC address: c0:62:6b:ae:03:c1 (c0:62:6b:ae:03:c1)
  Target IP address: 10.10.10.2 (10.10.10.2)

```

解决方法

默认情况下IP设备跟踪功能在一些IOS交换机当前启用

对应急方案这您能禁用在去从这些设备的连结的物理接口的IPDT :

注意 : 这不可能禁用全局，它必须每个接口执行。如果这是您应该在Port-Channel逻辑接口配置此的Port-Channel，不是物理接口。

```

IOSswitch(config)# no ip device tracking
% IP device tracking is disabled at the interface level by removing the relevant configs
IOSswitch(config)# interface gil/0/1
IOSswitch(config-if)# ip device tracking maximum 0
IOSswitch(config-if)# end

```

在3850与3.2.3SE下面的配置将禁用功能 :

```

3850(config)# interface gil/0/1
3850(config-if)# ip device tracking maximum 1 3850(config-if)# NMSP attach suppress 3850(config-if)# end 3850# wr mem

```

在3850与3.3.3SE下面的配置将禁用功能(当前跟踪最大0工作的IP设备) :

```

3850(config)# interface gil/0/1
3850(config-if)# ip device tracking maximum 0 3850(config-if)# NMSP attach suppress 3850(config-if)# end 3850# wr mem

```

参考Bug

[CSCud96554](#)抑制Syslog %ARP-3-DUP_VADDR_SRC_IP_PROBE

[CSCu120441](#)抑制Syslog %ARP-3-DUP_VADDR_SRC_IP_PROBE在6.2(2)