

# Nexus 7000:了解并补救ARP探测消息

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## 概述

本文档旨在帮助了解错误消息的原因并进行补救。

```
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？

ARP探测是使用全零发送方IP地址构建的ARP请求。该术语用于IPv4地址冲突检测规范(RFC 5227)。在开始使用IPv4地址(无论是通过手动配置、DHCP还是其他方式接收)之前,实施此规范的主机必须通过广播ARP探测数据包来测试该地址是否已在使用。[8]

## 故障排除

这些ARP探测功能由属于该VLAN中没有SVI的交换机的Mac地址发送。

经进一步调查,这些是运行IP设备跟踪功能的IOS设备发送的ARP探测数据包。

以下是数据包的Ethanalyzer捕获示例:

```
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

IP设备跟踪功能现在在某些IOS交换机中默认启用

要解决此问题，您可以在从这些设备到nexus的物理接口上禁用IPDT:

注意：这无法全局禁用，必须按接口完成。如果这是端口通道，则应在端口通道逻辑接口上而不是物理接口上配置。

```

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

```

在带3.2.3SE的3850上，以下配置将禁用该功能：

```

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

```

在带3.3.3SE的3850上，以下配置将禁用该功能(ip device tracking max 0 now works):

```

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

```

## 引用错误

[CSCud96554](#)抑制系统日志%ARP-3-DUP\_VADDR\_SRC\_IP\_PROBE

[CSCu120441](#)抑制6.2(2)中的系统日志%ARP-3-DUP\_VADDR\_SRC\_IP\_PROBE