how to disable misc packets from tester

This is the summary about how to disable misc packet on ORL7.1

If met unexpected packets from tester, please use tcpdump check the packet type first.

1. ICMPv6 packet

Root cause: These packets were sent out by dhclient, which started by network manager.

When port links status changed, network manage will auto start dhclient to request ip address.

Solution: Disable Network manager and kill dhclient

*systemctl stop NetworkManager.service*

*systemctl disable NetworkManager.service*

*systemctl disable dhclient*

$ sudo sh -c ‘echo 1 》 /proc/sys/net/ipv6/conf/all/disable\_ipv6’

永久禁用IPv6

1. 方法一

　　第一种方法是通过 /etc/sysctl.conf 文件对 /proc 进行永久修改。

　　换句话说，就是用文本编辑器打开 /etc/sysctl.conf 然后添加以下内容：

　　# 禁用整个系统所有接口的IPv6

　　net.ipv6.conf.all.disable\_ipv6 = 1

　　# 禁用某一个指定接口的IPv6（例如：eth0， lo）

　　net.ipv6.conf.lo.disable\_ipv6 = 1

　　net.ipv6.conf.eth0.disable\_ipv6 = 1

　　在 /etc/sysctl.conf 使这些更改生效，运行以下命令：

　　$ sudo sysctl -p /etc/sysctl.conf

　　或者直接重启。

Tcpdump packet :

07:14:59.906213 IP6 :: > ff02::16: HBH ICMP6, multicast listener report v2, 1 group record(s), length 28

07:14:59.948247 IP6 :: > ff02::1:ff22:2221: ICMP6, neighbor solicitation, who has fe80::6a05:caff:fe22:2221, length 24

07:15:00.951269 IP6 fe80::6a05:caff:fe22:2221 > ff02::2: ICMP6, router solicitation, length 16

1. Dhcp6 packet

Root cause: These packets were sent out by kernel driver. When link status changed from down to up, Kernel will send out icmp packet to discovery network.

Solution: disable ipv6 (Has been applied into DTS)

*sysctl net/ipv6/conf/* *ens160f0 /disable\_ipv6=1*

Tcpdump packet:

07:34:59.475532 IP 0.0.0.0.bootpc > 255.255.255.255.bootps: BOOTP/DHCP, Request from 68:05:ca:22:22:21 (oui Unknown), length 300

07:35:04.035776 IP 0.0.0.0.bootpc > 255.255.255.255.bootps: BOOTP/DHCP, Request from 68:05:ca:22:22:21 (oui Unknown), length 300

07:35:16.374232 IP 0.0.0.0.bootpc > 255.255.255.255.bootps: BOOTP/DHCP, Request from 68:05:ca:22:22:21 (oui Unknown), length 300

1. LLDP packet

Root cause: i40e driver default will enable LLDP. After interface up, LLDP packet will be sent out.

Soluction: Update i40e driver to latest version and disable LLDP agent in i40e driver

Add i40e\_aq\_stop\_lldp(hw, true, NULL) in i40e\_main.c