LLDP-MED Capability Now Available

The latest AND firmware releases (2017 or later) enable communication via "LLDP-MED" on our devices. As a result, AND device behavior could change when interacting with any LLDP-MED-enabled network switches. For devices with an earlier firmware release, you can upgrade the firmware at http://www.anetd.com/portal.

LLDP-MED BENEFITS

Link Layer Discovery Protocol – Media Endpoint Discovery (LLDP-MED), based on the IEEE802.1AB LLDP standard, allows endpoints and infrastructure (such as Ethernet switches) to share configuration and operation information. This feature, in turn, simplifies the deployment and troubleshooting of VoIP endpoint devices.

Consider the configuration of both the network switch and the AND device for correct Voice VLAN detection and operation.

DEVICE CONFIGURATION

By default, AND devices with firmware released in 2017 or later will work with LLDP-MED out of the box. To disable LLDP-MED, refer to AND App Note #46: LLDP-MED Configuration (see http://www.anetdsupport.com/AppNotes).

Upon boot-up, the enabled AND device sends an LLDP-MED packet to the switch to request the current Voice VLAN setting on the port. If the AND device receives an LLDP-MED packet from the switch, it will use the settings received in that packet for Voice VLAN operation. If the AND device does not receive an LLDP-MED packet from the switch within 45 seconds, the device will revert to LLDP operation and send untagged packets.

SWITCH CONFIGURATION

Make sure to properly configure the switch for Voice VLAN, LLDP-MED operation. Standard configuration involves the following parameters:

1) **PoE**
   Use an Ethernet port configured to provide power to an IEEE Class 4 device.
2) **LLDP-MED**
   Activate the switch for LLDP-MED.
3) **Voice VLAN**
   Define the Voice VLAN network policy and assign it to the Voice VLAN port(s), which will include:
   - VLAN tagging
   - Layer 2 COS (Class of Service)
   - DSCP (Differentiated Services Code Point)

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SWITCH CONFIGURATION

Make sure to properly configure the switch for Voice VLAN, LLDP-MED operation. Standard configuration involves the following parameters:

4) **PoE**
   Use an Ethernet port configured to provide power to an IEEE Class 4 device.
5) **LLDP-MED**
   Activate the switch for LLDP-MED.
6) **Voice VLAN**
   Define the Voice VLAN network policy and assign it to the Voice VLAN port(s), which will include:
   - VLAN tagging
   - Layer 2 COS (Class of Service)
   - DSCP (Differentiated Services Code Point)