Instruction to load ONL

Pre-install connectivity

1.Connect the console port of the switch to a PC. Most switches come with a RJ45 console port. Use a RJ45-to-serial cable or an RJ45-to- USB cable to connect to a PC.

2. Use a terminal application; such as “Tera Term” to terminal connect. Configure the console port. Use these settings for the console port:

- 115200 baud
- No flow control
- 1 stop bit
- No parity bits
- 8 data bits

3. Connect MGMT port of the switch to the same segment as TFTP server.

In this example we are assuming IP address for management port is 192.x.x.x.

Installing the ONL

1. 1. **Install ONL image from ONI:**
   Before installation, users can download the ONL images of all models from GitHub.
   https://github.com/DeltaProducts

For example: ONL images for ag9032v1.
https://github.com/DeltaProducts/ag9032v1/tree/master/onl_image

Boot up the switch and press “Del” key.
Enter ONI menu.
Choose “ONIE” -> “ONIE: Install OS”.

We install the image on Delta switch model AG8032v1.
Issue the following commands to install ONL image.

NOTE: our assumption is that you have loaded ONL image to an ftp server at ip address of 192.62.2.102 in tftptoot path

ONIE:/ # onie-discovery-stop
ONIE:/ # onie-nos-install
tftp://192.62.2.102/ONL-2.0.0_ONL-OS_2017-02-06.1958-5cfaeca_AMD64_INSTALLED_INSTALLER

The switch will reboot after it installs the image.

2. **Run ONL image.**
   Boot up the switch and press “Del” key.
   Choose “Open Network Linux”.

   Default login username/password: root/onl

3. **Run onlpd to show platform information.**
   root@ localhost:~# onlpd -h
   Usage: onlpd [OPTIONS]
   -d Use dump(). This is the default.

```
-s      Use show() instead of dump().
-r      Recursive show(). Implies -s
-e      Extended show(). Implies -s
-y      Yaml show(). Implies -s
-o      Dump ONIE data only.
-x      Dump Platform Info only.
-j      Dump ONIE data in JSON format.
-m      Run platform manager.
-M      Run as platform manager daemon.
-i      Iterate OIDs.
-p      Show SFP presence.
-t      <file>    Decode TlvInfo data.
-O      <oid> Dump OID.
-S      Decode SFP Inventory
-b      Decode SFP Inventory into SFF database entries.
-l      API Lock test.


root@ localhost:~# onlpd -d
    System Information: = {
        Product Name: AG9032v1
        Serial Number: A904F1DG171900015
        MAC: 00:18:23:30:e6:4e
        MAC Range: 4
        Manufacturer: DNI
        Manufacture Date: 01/17/2017 16:46:52
        Platform Name: x86_64-ag9032v1-r0
        Country Code: TW
        Diag Version: 1.17
```

```
        ONIE Version: 2016.6.6-V1.1
    }
    thermal @ 1 = {
        Description: CPU Core
        Status: 0x00000001 [ PRESENT ]
        Caps:     0x0000000f [
GET_TEMPERATURE,GET_WARNING_THRESHOLD,GET_ERROR_TH
RESHOLD,GET_SHUTDOWN_THRESHOLD ]
        Temperature: 17000
        thresholds = {
            Warning: 45000
            Error: 55000
            Shutdown: 60000
        }
    }
……
……
```

Resource link:

Open Network Linux:
https://opennetlinux.org/

Delta products GitHub link:
https://github.com/DeltaProducts