1. List device types, like: lab-tool list device\_types
2. List DUTs: like:

->lab-tool list devices --device\_type Harker\_SDP

Harker\_SDP\_1    Reserved by Yongtao Li(1680273)

1G: 3, 40G: 1, 56G: 1, 10G: 1

Harker\_SDP\_3    Freed

1G: 3, 40G: 1, 56G: 1, 10G: 1

1. Show DUT details, like:

->lab-tool show\_details --device Harker\_SDP\_1

Name: Harker\_SDP\_1

Current\_user: Yongtao Li(1680273)

Type: Harker\_SDP

Processor: xxx

Processor version: 1.0

Device\_S/N: 12345678

Hardware\_version: A

DDR\_size: 16GB

Harddisk\_size: 1TB

Serial\_0: host: 10.5.142.20, port: 12

Serial\_1: host:10.5.142.20, port: 13

PDU: host: 10.5.142.5, port: 1

JTAG debugger: 10.5.142.100

Ports:

Eth\_1G\_0: Management

    Speed: 1G

Mac\_address: xx:xx:xx:xx:xx:xx

IP\_addr:xx.xx.xx.xx(static IP for management)

Eth\_1G\_1: MCC

    Speed: 1G

Mac\_address: xx:xx:xx:xx:xx:xx

    Eth\_1G\_1<->D01<->MCC1\_1\_26

Eth\_1G\_2: MCC

    Speed: 1G

Mac\_address: xx:xx:xx:xx:xx:xx

    Eth\_1G\_1<->D01<->MCC1\_1\_26<->MCC1\_2\_30<->STC1.p1(the port is linked to STC1.p1, look at item#7)

Eth\_40G\_1: MCC

    Speed: 40G

Mac\_address: xx:xx:xx:xx:xx:xx

   Eth\_1G\_1<->F01<->MCC2\_1\_10

1. Reserve/release DUT, like: lab-tool reserve Harker\_SDP\_1, lab-tool release Harker\_SDP\_1
2. Open DUT console, like: lab-tool connect –serial0 Harker\_SDP\_1, lab-tool connect –serial1 Harker\_SDP\_1
3. Power on/off/reboot DUT, like: lab-tool power –on Harker\_SDP\_1, lab-tool power –off Harker\_SDP\_1
4. Dynamically link/unlink two network ports by Layer1 switch(<http://mrv.com/media-cross/>), like:

->lab-tool link Harker\_SDP\_1.eth\_1G\_1 STC1.p1

->lab-tool unlink Harker\_SDP\_1.eth\_1G\_1 STC1.p1

1. Add/show device history, like:

->lab-tool note Harker\_SDP\_1

2017.6.1, update processor from v1.0 to v2.0

2017.6.10, rework by factory is done

…

->lab-tool note --add Harker\_SDP\_1 “2017.6.1, update processor from v1.0 to v2.0”

10. Create device usage logs in DB for item4-item7 above, like:

Harker\_SDP\_1, 2017.6.1 10:00:00, reserve, Yongtao Li(1680273)

Harker\_SDP\_1, 2017.6.1, 10:00:30, power on, Yongtao Li(1680273)

Harker\_SDP\_1, 2017.6.1, 10:02:05, connect serial, Yongtao Li(1680273)