SPB monitoring CLI commands 1/2

General commands

show running-config

show tech

show autotopology nmm-table

show ip arp vrfids 0-255 | 0-512

show ip vrf

show ip vrf max-routes

show ip interface vrfids 0-255 | 0-512

show ip route vrfids 0-255 | 0-512

show ip route alternative vrfids 0-255 | 0-512

show ip route count-summary vrfids 0-255 | 0-512

show ip rsmlt vrfids 0-255 | 0-512

show ip vrrp vrfids 0-255 | 0-512

show ip vrrp interface vrfids 0-255 | 0-512

show ip vrrp address vrfids 0-255 | 0-512

ISIS core

show sys mgid-usage

show spanning-tree mstp config | port role

show mlt

show isis spbm

show isis interface

show isis adjacencies

show isis spbm unicast-tree 4051 | 4052

show isis spbm unicast-fib

show i-sid

I2 ping vlan 4051 | 4052 routernodename

bswitch>

12 traceroute vlan 4051 | 4052 routernodename

bswitch>

show isis Isdb tlv 3 detail

show isis Isdb tly 22 detail

show isis Isdb tlv 143 detail

IP shortcut

show isis

show ip route

show ip isis redistribute

I2 ping ip-address x.x.x.x

12 traceroute ip-address x.x.x.x

show isis Isdb tly 135 detail

L2VSN

show vlan i-sid

show i-sid mac-address-entry remote

show vlan mac-address-entry spbm-tunnel-as-mac

vlan mac-address-entry vvvv sync (conf t)

show i-sid mac-address-entry remote

show isis spbm i-sid all

show isis spbm multicast-fib i-sid zzzzzzz

12 tracetree 4051 | 4052 zzzzzzz

show vlan mac-address-entry vvvv

show vlan remote-mac-table vvvv

show mac-address-table vid vvvv

show mac-address-table spbm i-sid zzzzzzz

show isis Isdb tlv 144 detail

Integrated Application Hosting (IAH)

show boot config flags insight-port-connect-type

virtual service <NewVM> install package <NewVM.img>

show virtual-service install NewVM

show virtual-service config

show virtual-service config statistics

virtual-service <VM> console

SPB MSTP Multi-Area

show isis [remote]

(designated/non-designated)

show isis area

show isis area-vnode

show isis multi-area I2 redistribute i-sid

show isis multi-area I2 isid-list

show isis multi-area ip redistribute unicast

show isis multi-area ip redistribute unicast vrf [name]

#Physical layer & counters:

show pluggable-optical-modules basic | detail

show alarm database

show interfaces gigabitEthernet error

show interfaces gigabitEthernet error verbose

show interfaces gigabitEthernet error collision show mlt error

show mlt error main

clear-stats <ports>

clear?

clear ssh ?

clear telnet?

show core-file

show debug-file

debug file remove [all]

show sys-info

SPB MSTP Multihoming

show spanning-tree mstp status

show i-sid mac-address-entry 16777003

show spanning-tree mstp port statistics x/y

show spanning-tree mstp port config x/y

Abbreviations:

X.X.X.X VVVV 777777

bbswitch 4051 | 4052 ip addr vlan

i-sid sys-name BVLAN

VLAN-id:

ERS8K max 4000 VSP9K max 4084 VOSS max 4059 VSP4900 max 4000

VRF-id:

ERS8K 0-255 (max 256 VRFs) 0-512 (max 512 VRFs) VSP9K

VOSS 0-512 (max 24 or scaled 256) VSP4450 0-512 (max 24 or scaled 128)

Reserved i-sid:

0-255 -> IEEE reserved (allowed by VOSS) 256-15.999.998 -> User selectable 15.999.999 -> Used by ZTFv2

15.990.000-15.999.095 -> EPT default offset 16.000.001-16.600.000 -> MCoSPB

16.774.744-16.775.744 16.678.217-16.678.472 16 678 216

DVR up to v6.0.1.0 DVR domain from v6.0.1.2 DVR Backbone I-SID

16.776.000-16.776.999 -> RSPAN

16.777.001 FabricAreaNetwork

16.777.003 MSTP Multihoming

16.777.215 ff:ff:ff (max value)



SPB monitoring CLI commands 2/2

#ACLI Logging:

@log start [filename]

@log info

L3VSN

show ip ipvpn

show isis spbm ip-unicast-fib id zzzzzzz

show ip route vrf vrfname

I2 ping ip-address x.x.x.x vrf vrfname

show isis Isdb tly 184 detail

DVR

show dvr

show dvr members

show dvr interfaces?

show dvr host-entries?

clear dvr host-entries?

show dvr routes?

clear ip arp?

show dvr backbone-members

show dvr backbone-entries?

show dvr I3vsn? (same as show ip ipvpn)

show dvr database?

show i-sid mac-address-entry port x/y

(on LEAF) show ip route show ip arp [vlan id] [vrfid id]

Anycast-gateway

show ip anycast-gateway interfaces

show ip anycast-gateway i-sid [all-routers]

show isis Isdb local tlv 187 detail

Multicast

show i-sid

show ip vrf mvpn

show isis spbm multicast

show isis spbm multicast-fib

show ip igmp interface vrf <vrfname>

show ip igmp sender vrf <vrfname> | show ip igmp sender count

show isis spb-mcast-summary

show isis spbm ip-multicast-route all/vlan xxxx detail/vsn-isid yyyy detail

show ip igmp snoop-trace vrf <vrfname>

show ip igmp group/cache vrf <vrfname>

show ip mroute route vrf <vrfname>

12 tracemroute source s.s.s.s group g.g.g.g vlan xxxx vrf <vrfname>

UnspecifiedType (00)

Ether2 ARP Request (10)

Ether2 LLDP

Ether2 SLPP

IPv4 UDP DHCP

IPv4_UDP_Other

IPv4_OSPF_MC

IPv6 UDP IPMC IPv4_ICMP

IPv6_ICMP_ND_MC

IPv6_ICMP_ND_UC IPv4 TCP TELNET

(62)

(66)

(81) <u>S</u> (83) O

IPv4_TCP_SSH

Ether2 Other

IPv4_UDP_SNMP

IPv4 TCP IST

IPv6_Other_MC

IPv4 TCP FTP

Ipv4_TCP_Other

IPv4_GRE_Other

LLC_TDP

IPv4 VRRP

show isis Isdb tlv 185 detail

show isis Isdb tlv 186 detail

Fabric Extend - ONA

show isis logical-interface

show isis int-I1-cntl-pkts

show khi fe-ona status

show khi fe-ona detail

Fabric Attach (ERS/VSP)

show fa

show fa assignment

show fa elements

show fa interface

show fa stats

Fabric Attach (EXOS)

show vlan

show lacp lag

show vlan fabric attach mapping

show fabric attach neighbors

show IIdp ports xx-yy neighbors <detail>

show port vid description

ISIS core

show debug spbm fib summary slot x

Troubleshoot Performance issues

show sys mgid-usage

show gos cosq-stats interface

show gos cosq-stats cpu-port

show gos cosq-stats loopback

show khi performance pthread sort cpu (all CPUs)

show interfaces gigabitEthernet config

show interfaces gigabitEthernet I1-config

show interfaces gigabitEthernet statistics -> 2nd part OUTLOSS PACKETS!!!!

#Logging:

show logging file module clilog

show logging file module snmplog

#Mirror-by-port:

mirror-by-port 10 in-port 2/1 out-port 1/40 mode rx enable

mirror-by-port 10 in-port 1/28 out-port 1/4/4 mode tx enable

#CPU tracing:

trace shutdown

clear trace

trace grep

trace level 93

trace level 14 3 trace level 15 3

trace shutdown

show trace file clear trace

#MAC Flapping: trace level 11 1

trace level 25 2

**** DEBUG ****

show io I2-tables

show io I3-tables

telnet to the line-card in slot s by issuing the following ACLI command:

telnet 127.0.1.s

then issue the following COP shell commands:

ercdDumpRecords "mac".3

ercdDumpRecords "arp".3

ercdDumpRecords "ip",3

leave the COP shell by issuing COP shell command: logout

VSP8600:

show io control

show io I2 slot all show io I3 slot all

show io control

All VSP:

Pkts in Q7 (type): 4(5), 1837(95)

1841 in RxQueue7

50% of the buffer for

4 packets from type (5) -> 1837 packet from type (9 ; can be found in "show khi

#dbg en <-- Enter "priv" password when prompted.

#debug mode

(debug)#process cbcp-main.x

(debug, pname:cbcp-main.x)#module res mgr

(debug, pname:cbcp-main.x, mod:res_mgr)#exec I3_defip_count

(debug, pname:cbcp-main.x, mod:res mgr)#exec I3 entry count

(debug, pname:cbcp-main.x, mod:res_mgr)#exec res_mgr_model_stats

(debug, pname:cbcp-main.x, mod:res_mgr)#exit

(debug)#exit

#debug mode;exec bash

#dbq dis

#reset -coredump

