

POWER (remove plug) OFF/ON

+++++

BEFORE POWER DOWN

=====

(voltha) devices

Devices:

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+
|      id |      type | root |   parent_id | serial_number | admin_state |
oper_status | connect_status | parent_port_no |   host_and_port |      reason |
proxy_address.device_id | proxy_address.onu_id | proxy_address.onu_session_id |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+
| 00013f134a67000f |      openolt | True | 000100000ac014ce |
EC1838000853 |  ENABLED |  ACTIVE |  REACHABLE |
10.192.20.206:9191 |      |      |      |
| 0001d0322be27e57 | brcm_openomci_onu | | 00013f134a67000f |
ALPHe3d1cfa7 |  ENABLED |  ACTIVE |  REACHABLE | 536870912 |
| omci-flows-pushed | 00013f134a67000f |      1 |      1 |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+

```

(voltha)

Device 00013f134a67000f (type: openolt)

Flows (6):

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+
| table_id | priority |  cookie |  in_port | vlan_vid | eth_type | ip_proto | udp_src |
udp_dst |  metadata | set_vlan_vid | pop_vlan | push_vlan |  output | goto-table |
|
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+
|      0 | 10000 | ~203231e2 |      16 | 4091 | 888E |      |      |
|      |      | | CONTROLLER |      |

```

0	10000	~203231e2	CONTROLLER	4090			
			16				
0	10000	~52d6e3e8	16	800	17	68	67
		CONTROLLER					
0	1000	~59e43e09	65536	111			
4290672328720		Yes			1		
1	1000	~95498d06	16	999			
111		8100	65536				
0	10000	~203231e2	16	999	888E		
		CONTROLLER					

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

(device 00013f134a67000f) ports

Device ports:

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| port_no | label | type | admin_state | oper_status | device_id |
peers |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| 536870912 | pon0 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 65536 | nni-65536 | ETHERNET_NNI | ENABLED | ACTIVE |
00013f134a67000f |
| 536870913 | pon1 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870914 | pon2 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870915 | pon3 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870916 | pon4 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870917 | pon5 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870918 | pon6 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870919 | pon7 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870920 | pon8 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+

```

```

| 536870921 | pon9 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870922 | pon10 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870923 | pon11 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870924 | pon12 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870925 | pon13 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870926 | pon14 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870927 | pon15 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 16 | uni-16 | ETHERNET_UNI | ENABLED | ACTIVE |
00013f134a67000f | [{'port_no': 100, 'device_id': u'0001d0322be27e57'}] |

```

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+

```

```

(device 00013f134a67000f)
(voltha) logical_device 000100000ac014ce
(logical device 000100000ac014ce) flows
Logical Device 000100000ac014ce (type: n/a)
Flows (8):

```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| table_id | priority | cookie | in_port | vlan_vid | eth_type | ip_proto | udp_src |
udp_dst | metadata | set_vlan_vid | pop_vlan | push_vlan | output | goto-table
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 0 | 10000 | ~09c7aee4 | 65536 | | 88CC | | | |
| | | | CONTROLLER | |
| 0 | 10000 | ~ea2d38c2 | 65536 | | 800 | 17 | 67 | 68 |
| | | | CONTROLLER | |
| 0 | 10000 | ~2aedf8c3 | 16 | | 888E | | | |
| | | | CONTROLLER | |
| 0 | 10000 | ~f2bf14e7 | 16 | | 800 | 17 | 68 | 67 |
| | | | CONTROLLER | |
| 1 | 1000 | ~f29cdaf0 | 65536 | 999 | | | | |
| | Yes | | 16 | |
| 0 | 1000 | ~9139074e | 65536 | 111 | | | | |

```

```

4290672328720 |          | Yes |          |          | 1 |
| 1 | 1000 | ~fc1dd6d0 | 16 | 999 |          |          |          |          |
111 |          | 8100 | 65536 |          |          |          |          |          |
| 0 | 1000 | ~fad03e91 | 16 | 0 |          |          |          |          |
999 |          |          |          | 1 |          |          |          |          |

```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

(logical device 000100000ac014ce) ports

Logical device ports:

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

id	device_id	device_port_no	root_port	ofp_port.port_no	ofp_port.hw_addr	ofp_port.name	ofp_port.state	ofp_port.curr	ofp_port.curr_speed	ofp_port_stats.port_no
nni-65536	00013f134a67000f	65536	True	65536	[0L, 0L, 0L, 1L, 0L, 0L]	nni-65536	4	4128	32	
uni-16	0001d0322be27e57	16		16	[8L, 0L, 0L, 0L, 0L, 16L]	ALPHe3d1cfa7	4	4160	64	

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

(logical device 000100000ac014ce)

onos> ports

```

id=of:000000000ac014ce, available=true, local-status=connected 34m15s ago,
role=MASTER, type=SWITCH, mfr=VOLTHA Project, hw=, sw=,
serial=EC1838000853, chassis=ac014ce, driver=voltha,
channelId=10.233.102.165:59606, locType=none,
managementAddress=10.233.102.165, name=olt-1, protocol=OF_13
  port=16, state=enabled, type=fiber, speed=0 , adminState=enabled,
portMac=08:00:00:00:00:10, portName=ALPHe3d1cfa7
  port=65536, state=enabled, type=fiber, speed=0 , adminState=enabled,
portMac=00:00:00:01:00:00, portName=nni-65536
id=of:0000cc37ab5b6da8, available=true, local-status=connected 1h47m ago,
role=MASTER, type=SWITCH, mfr=Accton Corp., hw=x86-64-accton-
as6712-32x-r0, sw=ofdpa 3.0.5.5+accton1.7-1, serial=671232X1534021,
chassis=cc37ab5b6da8, driver=ofdpa3, channelId=10.192.20.45:59775,
locType=none, managementAddress=10.192

```

```

onos> flows -s
deviceId=of:000000000ac014ce, flowRuleCount=8
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:lldp], treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:16,
ETH_TYPE:eapol], treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:67, UDP_DST:68],
treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:16,
ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:68, UDP_DST:67],
treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:65536,
METADATA:3e700000010, VLAN_VID:111], treatment=[immediate=[VLAN_POP],
transition=TABLE:1]
  ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:16,
VLAN_VID:0], treatment=[immediate=[VLAN_ID:999], transition=TABLE:1]
  ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:65536,
VLAN_VID:999], treatment=[immediate=[VLAN_POP, OUTPUT:16]]
  ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:16,
VLAN_VID:999], treatment=[immediate=[VLAN_PUSH:vlan, VLAN_ID:111,
OUTPUT:65536]]

```

```

+++++
AFTER POWER OFF
+++++

```

voltha) devices

Devices:

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+
|      id |      type | root |   parent_id | serial_number | admin_state |
oper_status | connect_status | parent_port_no |   host_and_port |      reason |
proxy_address.device_id | proxy_address.onu_id | proxy_address.onu_session_id |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+
| 00013f134a67000f |      openolt | True | 000100000ac014ce |
EC1838000853 |  ENABLED |  ACTIVE |  REACHABLE |
10.192.20.206:9191 |      |      |      |

```

```

| 0001d0322be27e57 | brcm_openomci_onu | | 00013f134a67000f |
ALPHe3d1cfa7 | ENABLED | DISCOVERED | UNREACHABLE | 536870912 |
| stopping-openomci | 00013f134a67000f | 1 | 1 |

```

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

```

(voltha)
(device 00013f134a67000f) flows
Device 00013f134a67000f (type: openolt)
Flows (3):

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
| table_id | priority | cookie | in_port | vlan_vid | eth_type | ip_proto | udp_src |
udp_dst | metadata | set_vlan_vid | pop_vlan | push_vlan | output | goto-table
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
| 0 | 10000 | ~52d6e3e8 | 16 | | 800 | 17 | 68 | 67 |
| | | | CONTROLLER | |
| 0 | 1000 | ~59e43e09 | 65536 | 111 | | | |
4290672328720 | | Yes | | | 1 |
| 1 | 1000 | ~95498d06 | 16 | 999 | | | |
111 | | 8100 | 65536 | |

```

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

(device 00013f134a67000f) ports
Device ports:

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| port_no | label | type | admin_state | oper_status | device_id |
peers |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
| 536870912 | pon0 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 65536 | nni-65536 | ETHERNET_NNI | ENABLED | ACTIVE |
00013f134a67000f |
| 536870913 | pon1 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |

```

536870914	pon2	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870915	pon3	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870916	pon4	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870917	pon5	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870918	pon6	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870919	pon7	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870920	pon8	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

```

536870921	pon9	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870922	pon10	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870923	pon11	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870924	pon12	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870925	pon13	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870926	pon14	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				
536870927	pon15	PON_OLT	ENABLED	ACTIVE
00013f134a67000f				

16	uni-16	ETHERNET_UNI	ENABLED	ACTIVE
00013f134a67000f	[{'port_no': 100, 'device_id': u'0001d0322be27e57'}]			

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

```

(device 00013f134a67000f)
(logical device 000100000ac014ce) flows
Logical Device 000100000ac014ce (type: n/a)
Flows (7):

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+

```

table_id	priority	cookie	in_port	vlan_vid	eth_type	ip_proto	udp_src
udp_dst	metadata	set_vlan_vid	pop_vlan	push_vlan	output	goto-table	

```

|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
|   0 | 10000 | ~09c7aee4 | 65536 |   | 88CC |   |   |   |
|   |   |   | CONTROLLER |   |   |   |   |   |
|   0 | 10000 | ~ea2d38c2 | 65536 |   | 800 | 17 | 67 | 68 |
|   |   |   | CONTROLLER |   |   |   |   |   |
|   0 | 10000 | ~f2bf14e7 | 16 |   | 800 | 17 | 68 | 67 |
|   |   |   | CONTROLLER |   |   |   |   |   |
|   1 | 1000 | ~f29cdaf0 | 65536 | 999 |   |   |   |   |
|   | Yes |   | 16 |   |   |   |   |   |
|   0 | 1000 | ~9139074e | 65536 | 111 |   |   |   |   |
4290672328720 |   | Yes |   |   |   | 1 |   |
|   1 | 1000 | ~fc1dd6d0 | 16 | 999 |   |   |   |   |
111 |   | 8100 | 65536 |   |   |   |   |   |
|   0 | 1000 | ~fad03e91 | 16 | 0 |   |   |   |   |
999 |   |   |   | 1 |   |   |   |   |

```

(logical device 000100000ac014ce) ports

Logical device ports:

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+
|   id |   device_id | device_port_no | root_port | ofp_port.port_no |
ofp_port.hw_addr | ofp_port.name | ofp_port.state | ofp_port.curr |
ofp_port.curr_speed | ofp_port_stats.port_no |
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| nni-65536 | 00013f134a67000f | 65536 | True | 65536 | [0L, 0L,
0L, 1L, 0L, 0L] | nni-65536 | 4 | 4128 | 32 |
65536 |
| uni-16 | 0001d0322be27e57 | 16 |   | 16 | [8L, 0L, 0L, 0L,
0L, 16L] | ALPHe3d1cfa7 | 1 | 4160 | 64 |   |

```

(logical device 000100000ac014ce)

onos> ports

id=of:000000000ac014ce, available=true, local-status=connected 1h9m ago,


```
role=MASTER, type=SWITCH, mfr=VOLTHA Project, hw=, sw=,
serial=EC1838000853, chassis=ac014ce, driver=voltha,
channelId=10.233.102.165:59606, locType=none,
managementAddress=10.233.102.165, name=olt-1, protocol=OF_13
  port=16, state=disabled, type=fiber, speed=0 , adminState=enabled,
portMac=08:00:00:00:00:10, portName=ALPHe3d1cfa7
  port=65536, state=enabled, type=fiber, speed=0 , adminState=enabled,
portMac=00:00:00:01:00:00, portName=nni-65536
onos> flows -s
deviceId=of:000000000ac014ce, flowRuleCount=7
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:lldp], treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:67, UDP_DST:68],
treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:16,
ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:68, UDP_DST:67],
treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:65536,
METADATA:3e700000010, VLAN_ID:111], treatment=[immediate=[VLAN_POP],
transition=TABLE:1]
  ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:16,
VLAN_ID:0], treatment=[immediate=[VLAN_ID:999], transition=TABLE:1]
  ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:65536,
VLAN_ID:999], treatment=[immediate=[VLAN_POP, OUTPUT:16]]
  ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:16,
VLAN_ID:999], treatment=[immediate=[VLAN_PUSH:vlan, VLAN_ID:111,
OUTPUT:65536]]
=====
2019-03-08 23:37:51,769 | INFO | onos-of-worker-5 | OFChannelHandler
| 165 - org.onosproject.onos-protocols-openflow-ctl - 1.13.5 | Received port
status message from 00:00:00:00:0a:c0:14:ce/16: OFPortStatusVer13(xid=54,
reason=MODIFY, desc=OFPortDescVer13(portNo=16, hwAddr=08:00:00:00:00:10,
name=ALPHe3d1cfa7, config=[], state=[LINK_DOWN], curr=[PF_10GB_FD,
PF_FIBER], advertised=[PF_10GB_FD, PF_FIBER], supported=[], peer=[PF_10GB_FD,
PF_FIBER], currSpeed=64, maxSpeed=64))
2019-03-08 23:37:51,771 | INFO | onos-of-worker-5 | DeviceManager
| 130 - org.onosproject.onos-core-net - 1.13.5 | Device of:000000000ac014ce
port 16 status changed
2019-03-08 23:37:51,772 | INFO | sr-event-main-0 | SegmentRoutingManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | ** PORT
UPDATED DefaultDevice{id=of:000000000ac014ce, type=SWITCH,
manufacturer=VOLTHA Project, hwVersion=, swVersion=,
```

serialNumber=EC1838000853, driver=voltha}/DefaultPort{element=of:
000000000ac014ce, number=16, isEnabled=false, type=FIBER, portSpeed=0,
annotations={adminState=enabled, portName=ALPHe3d1cfa7,
portMac=08:00:00:00:00:10}} -> PORT_UPDATED
2019-03-08 23:37:51,772 | WARN | sr-event-main-0 | SegmentRoutingManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Device
configuration uploading. Not handling port event fordev: of:000000000ac014ce
port: 16
2019-03-08 23:37:51,772 | INFO | ispatch-default0 |
AccessDeviceKafkaIntegration | 189 - org.opencord.kafka - 1.0.0 | Got
AccessDeviceEvent: UNI_REMOVED
2019-03-08 23:37:51,776 | WARN | ect-host-event-0 | XconnectManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Unsupported
host event type: HOST_REMOVED received. Ignoring.
2019-03-08 23:37:51,776 | INFO | sr-event-host-0 | HostHandler |
177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Host B4:96:91:0C:
4F:E5/999 is removed from [of:000000000ac014ce/16]
2019-03-08 23:37:51,776 | INFO | sr-event-host-0 | HostHandler |
177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Revoking bridging
entry for host B4:96:91:0C:4F:E5/999 at of:000000000ac014ce:16
2019-03-08 23:37:51,777 | WARN | sr-event-host-0 | RoutingRulePopulator
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Tagged host
B4:96:91:0C:4F:E5/999 is not allowed on of:000000000ac014ce/16 without VLAN
listed in tagged vlan
2019-03-08 23:37:51,777 | WARN | sr-event-host-0 | RoutingRulePopulator
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Fail to build fwd
obj for host B4:96:91:0C:4F:E5/999. Abort.
2019-03-08 23:37:51,782 | INFO | ce-operations-17 | Olt | 187 -
org.opencord.olt-app - 2.1.0.SNAPSHOT | Eapol filter for of:000000000ac014ce
on 16 removed.

=====

ATT-SI:

"authentication_state": "APPROVED",
"onu_state": "ENABLED",

ATT-WHITELIST:

"serial_number": "ALPHe3d1cfa7",

Subscriber:

"status": "enabled",

OLT:

"admin_state": "ENABLED",
"oper_status": "ACTIVE",

ONU:

"oper_status": "DISCOVERED",

```
"admin_state": "ENABLED",
+++++
```

```
POWER ON
```

```
+++++
```

```
(voltha) devices
```

```
Devices:
```

```

+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
|      id |      type | root |   parent_id | serial_number | admin_state |
oper_status | connect_status | parent_port_no |   host_and_port |      reason |
proxy_address.device_id | proxy_address.onu_id | proxy_address.onu_session_id |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
| 00013f134a67000f |      openolt | True | 000100000ac014ce |
EC1838000853 |  ENABLED |  ACTIVE |  REACHABLE |
10.192.20.206:9191 |      |      |      |
| 0001d0322be27e57 | brcm_openomci_onu | | 00013f134a67000f |
ALPHe3d1cfa7 |  ENABLED |  ACTIVE |  REACHABLE | 536870912 |
| omci-flows-pushed | 00013f134a67000f | 1 | 1 |
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+
+-----+-----+-----+-----+

```

```
(voltha)
```

```
Device 00013f134a67000f (type: openolt)
```

```
Flows (6):
```

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
| table_id | priority |  cookie |  in_port | vlan_vid | eth_type | ip_proto | udp_src |
udp_dst |  metadata | set_vlan_vid | pop_vlan | push_vlan |  output | goto-table |
|
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+
| 0 | 10000 | ~52d6e3e8 | 16 | | 800 | 17 | 68 | 67 |
| | | | CONTROLLER | |

```

0	1000	~59e43e09	65536	111				
4290672328720		Yes			1			
1	1000	~95498d06	16	999				
111		8100	65536					
0	10000	~203231e2	16	4091	888E			
		CONTROLLER						
0	10000	~203231e2	CONTROLLER	4090				
			16					
0	10000	~203231e2	16	999	888E			
		CONTROLLER						

```

+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

(device 00013f134a67000f) ports

Device ports:

```

+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+
| port_no | label | type | admin_state | oper_status | device_id |
peers |
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+
| 536870912 | pon0 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 65536 | nni-65536 | ETHERNET_NNI | ENABLED | ACTIVE |
00013f134a67000f |
| 536870913 | pon1 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870914 | pon2 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870915 | pon3 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870916 | pon4 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870917 | pon5 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870918 | pon6 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870919 | pon7 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870920 | pon8 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+

```

```

| 536870921 | pon9 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870922 | pon10 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870923 | pon11 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870924 | pon12 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870925 | pon13 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870926 | pon14 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 536870927 | pon15 | PON_OLT | ENABLED | ACTIVE |
00013f134a67000f |
| 16 | uni-16 | ETHERNET_UNI | ENABLED | ACTIVE |
00013f134a67000f | [{'port_no': 100, 'device_id': u'0001d0322be27e57'}] |

```

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+

```

```

(device 00013f134a67000f)
(logical device 000100000ac014ce) flows
Logical Device 000100000ac014ce (type: n/a)
Flows (8):

```

```

+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+
| table_id | priority | cookie | in_port | vlan_vid | eth_type | ip_proto | udp_src |
udp_dst | metadata | set_vlan_vid | pop_vlan | push_vlan | output | goto-table
|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
+-----+-----+
| 0 | 10000 | ~09c7aee4 | 65536 | | 88CC | | | |
| | | | CONTROLLER | |
| 0 | 10000 | ~ea2d38c2 | 65536 | | 800 | 17 | 67 | 68 |
| | | | CONTROLLER | |
| 0 | 10000 | ~f2bf14e7 | 16 | | 800 | 17 | 68 | 67 |
| | | | CONTROLLER | |
| 1 | 1000 | ~f29cdaf0 | 65536 | 999 | | | | |
| | Yes | | 16 | |
| 0 | 1000 | ~9139074e | 65536 | 111 | | | | |
4290672328720 | | Yes | | | 1 |
| 1 | 1000 | ~fc1dd6d0 | 16 | 999 | | | | |
111 | | 8100 | 65536 | |

```

```

| 0 | 1000 | ~fad03e91 | 16 | 0 | | | | |
999 | | | | 1 |
| 0 | 10000 | ~2aedf8c3 | 16 | | 888E | | | |
| | | | CONTROLLER | |

```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

(logical device 000100000ac014ce) ports

Logical device ports:

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

```

| id | device_id | device_port_no | root_port | ofp_port.port_no |
ofp_port.hw_addr | ofp_port.name | ofp_port.state | ofp_port.curr |
ofp_port.curr_speed | ofp_port_stats.port_no |

```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

```

| nni-65536 | 00013f134a67000f | 65536 | True | 65536 | [0L, 0L,
0L, 1L, 0L, 0L] | nni-65536 | 4 | 4128 | 32 |
65536 |

```

```

| uni-16 | 0001d0322be27e57 | 16 | | 16 | [8L, 0L, 0L, 0L,
0L, 16L] | ALPHe3d1cfa7 | 4 | 4160 | 64 | |

```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+

```

(logical device 000100000ac014ce)

onos> ports

```

id=of:000000000ac014ce, available=true, local-status=connected 1h13m ago,
role=MASTER, type=SWITCH, mfr=VOLTHA Project, hw=, sw=,
serial=EC1838000853, chassis=ac014ce, driver=voltha,
channelId=10.233.102.165:59606, locType=none,
managementAddress=10.233.102.165, name=olt-1, protocol=OF_13
  port=16, state=enabled, type=fiber, speed=0 , adminState=enabled,
portMac=08:00:00:00:00:10, portName=ALPHe3d1cfa7
  port=65536, state=enabled, type=fiber, speed=0 , adminState=enabled,
portMac=00:00:00:01:00:00, portName=nni-65536

```

onos> flows -s

```

deviceId=of:000000000ac014ce, flowRuleCount=8
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:Ildp], treatment=[immediate=[OUTPUT:CONTROLLER]]
  ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:16,

```

ETH_TYPE:epol], treatment=[immediate=[OUTPUT:CONTROLLER]]
ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:
65536, ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:67, UDP_DST:68],
treatment=[immediate=[OUTPUT:CONTROLLER]]
ADDED, bytes=0, packets=0, table=0, priority=10000, selector=[IN_PORT:16,
ETH_TYPE:ipv4, IP_PROTO:17, UDP_SRC:68, UDP_DST:67],
treatment=[immediate=[OUTPUT:CONTROLLER]]
ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:65536,
METADATA:3e700000010, VLAN_VID:111], treatment=[immediate=[VLAN_POP],
transition=TABLE:1]
ADDED, bytes=0, packets=0, table=0, priority=1000, selector=[IN_PORT:16,
VLAN_VID:0], treatment=[immediate=[VLAN_ID:999], transition=TABLE:1]
ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:65536,
VLAN_VID:999], treatment=[immediate=[VLAN_POP, OUTPUT:16]]
ADDED, bytes=0, packets=0, table=1, priority=1000, selector=[IN_PORT:16,
VLAN_VID:999], treatment=[immediate=[VLAN_PUSH:vlan, VLAN_ID:111,
OUTPUT:65536]]

=====

2019-03-08 23:43:05,521 | INFO | onos-of-worker-5 | OFChannelHandler
| 165 - org.onosproject.onos-protocols-openflow-ctl - 1.13.5 | Received port
status message from 00:00:00:00:0a:c0:14:ce/16: OFPortStatusVer13(xid=56,
reason=MODIFY, desc=OFPortDescVer13(portNo=16, hwAddr=08:00:00:00:00:10,
name=ALPHe3d1cfa7, config=[], state=[LIVE], curr=[PF_10GB_FD, PF_FIBER],
advertised=[PF_10GB_FD, PF_FIBER], supported=[], peer=[PF_10GB_FD, PF_FIBER],
currSpeed=64, maxSpeed=64))

2019-03-08 23:43:05,523 | INFO | onos-of-worker-5 | DeviceManager
| 130 - org.onosproject.onos-core-net - 1.13.5 | Device of:000000000ac014ce
port 16 status changed

2019-03-08 23:43:05,524 | INFO | sr-event-main-0 | SegmentRoutingManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | ** PORT
UPDATED DefaultDevice{id=of:000000000ac014ce, type=SWITCH,
manufacturer=VOLTHA Project, hwVersion=, swVersion=,
serialNumber=EC1838000853, driver=voltha}/DefaultPort{element=of:
000000000ac014ce, number=16, isEnabled=true, type=FIBER, portSpeed=0,
annotations={adminState=enabled, portName=ALPHe3d1cfa7,
portMac=08:00:00:00:00:10}} -> PORT_UPDATED

2019-03-08 23:43:05,524 | WARN | sr-event-main-0 | SegmentRoutingManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Device
configuration uploading. Not handling port event fordev: of:000000000ac014ce
port: 16

2019-03-08 23:43:07,339 | INFO | ispatch-default0 |
AccessDeviceKafkaIntegration | 189 - org.opencord.kafka - 1.0.0 | Got
AccessDeviceEvent: UNI_ADDED

2019-03-08 23:43:07,348 | INFO | ce-operations-30 | Olt | 187
- org.opencord.olt-app - 2.1.0.SNAPSHOT | Eapol filter for of:000000000ac014ce
on 16 installed.

2019-03-08 23:43:18,928 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Received DHCP Packet of
type DHCPREQUEST from of:000000000ac014ce/16

2019-03-08 23:43:18,932 | WARN | ect-host-event-0 | XconnectManager
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Unsupported
host event type: HOST_ADDED received. Ignoring.

2019-03-08 23:43:18,932 | INFO | sr-event-host-0 | HostHandler |
177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Host B4:96:91:0C:
4F:E5/999 is added at [of:000000000ac014ce/16]

2019-03-08 23:43:18,932 | INFO | sr-event-host-0 | HostHandler |
177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Populating
bridging entry for host B4:96:91:0C:4F:E5/999 at of:000000000ac014ce:16

2019-03-08 23:43:18,932 | WARN | sr-event-host-0 | RoutingRulePopulator
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Tagged host
B4:96:91:0C:4F:E5/999 is not allowed on of:000000000ac014ce/16 without VLAN
listed in tagged vlan

2019-03-08 23:43:18,933 | WARN | sr-event-host-0 | RoutingRulePopulator
| 177 - org.onosproject.onos-apps-segmentrouting-app - 1.13.5 | Fail to build fwd
obj for host B4:96:91:0C:4F:E5/999. Abort.

2019-03-08 23:43:18,974 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Finished processing packet..
relaying to dhcpServer

2019-03-08 23:44:59,711 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Received DHCP Packet of
type DHCPDISCOVER from of:000000000ac014ce/16

2019-03-08 23:44:59,712 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Finished processing packet..
relaying to dhcpServer

2019-03-08 23:45:01,742 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Received DHCP Packet of
type DHCPDISCOVER from of:000000000ac014ce/16

2019-03-08 23:45:01,743 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Finished processing packet..
relaying to dhcpServer

2019-03-08 23:45:03,709 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Received DHCP Packet of
type DHCPDISCOVER from of:000000000ac014ce/16

2019-03-08 23:45:03,710 | INFO | 33.102.165:59606 | DhcpL2Relay
| 188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Finished processing packet..
relaying to dhcpServer

2019-03-08 23:45:07,710 | INFO | 33.102.165:59606 | DhcpL2Relay |
188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Received DHCP Packet of
type DHCPDISCOVER from of:000000000ac014ce/16

2019-03-08 23:45:07,714 | INFO | 33.102.165:59606 | DhcpL2Relay |
188 - org.opencord.dhcpl2relay - 1.5.0.SNAPSHOT | Finished processing packet..
relaying to dhcpServer

=====

ATT-SI:

"authentication_state": "APPROVED",
"onu_state": "ENABLED",

ATT-WHITELIST:

"serial_number": "ALPHe3d1cfa7",

Subscriber:

"status": "enabled",

OLT:

"admin_state": "ENABLED",
"oper_status": "ACTIVE",

ONU:

"oper_status": "ACTIVE",
"admin_state": "ENABLED",