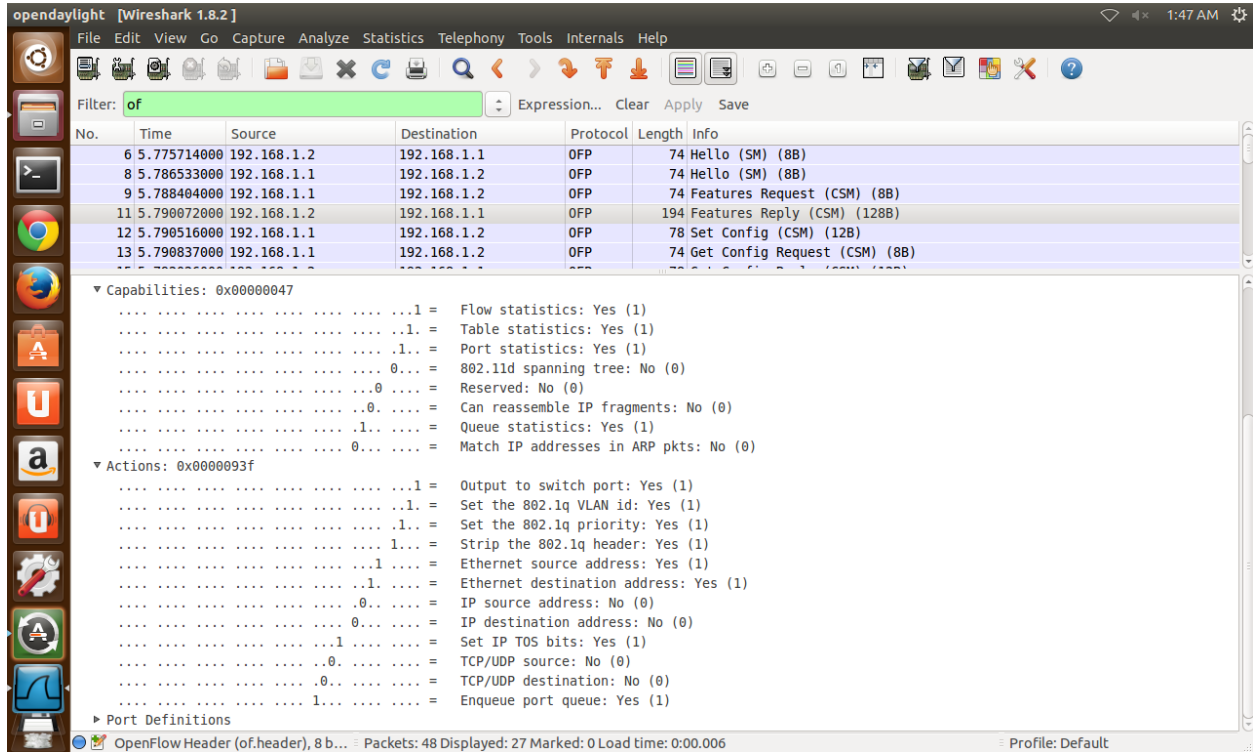


open day light behaved as expected . Following figure is feature reply from switch(192.168.1.2) to controller (192.168.1.1)



Following capture shows same message (feature reply) from switch to OESS controller

oess.pcapng [Wireshark 1.8.2]

Filter: Expression... Clear Apply Save http or of

No.	Time	Source	Destination	Protocol	Length	Info
24	18.22177000	192.168.1.2	192.168.1.1	OFPP	194	Features Reply (CSM) (128B)
25	18.22204200	192.168.1.1	192.168.1.2	OFPP	90	Vendor (SM) (24B)
26	18.41360200	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=53 Win=33120 Len=0 TSval=2 TSecr=24743077
27	23.22151600	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [FIN, ACK] Seq=53 Ack=137 Win=15552 Len=0 TSval=24748077 TSecr=24748077
28	23.22239500	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
29	23.22269100	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [FIN, ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
30	23.22284800	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [ACK] Seq=54 Ack=138 Win=15552 Len=0 TSval=24748078 TSecr=24748078

Number of Tables: 17

- Capabilities: 0x00000047
 - Flow statistics: Yes (1)
 - Table statistics: Yes (1)
 - Port statistics: Yes (1)
 - 802.11d spanning tree: No (0)
 - Reserved: No (0)
 - Can reassemble IP fragments: No (0)
 - Queue statistics: Yes (1)
 - Match IP addresses in ARP pkts: No (0)
- Actions: 0x0000093f
 - Output to switch port: Yes (1)
 - Set the 802.1q VLAN id: Yes (1)
 - Set the 802.1q priority: Yes (1)
 - Strip the 802.1q header: Yes (1)
 - Ethernet source address: Yes (1)
 - Ethernet destination address: Yes (1)
 - IP source address: No (0)
 - IP destination address: No (0)
 - Set IP TOS bits: Yes (1)
 - TCP/UDP source: No (0)
 - TCP/UDP destination: No (0)
 - Enqueue port queue: Yes (1)

Port Definitions

File: "/home/mininet/Desktop/oe... Packets: 49 Displayed: 49 Marked: 0 Load time: 0:00.000 Profile: Default

As you can see its replica of previous one

The only difference between two conversations is existence of vendor message in OESS

oess.pcapng [Wireshark 1.8.2]

Filter: Expression... Clear Apply Save http or of

No.	Time	Source	Destination	Protocol	Length	Info
24	18.22177000	192.168.1.2	192.168.1.1	OFPP	194	Features Reply (CSM) (128B)
25	18.22204200	192.168.1.1	192.168.1.2	OFPP	90	Vendor (SM) (24B)
26	18.41360200	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=53 Win=33120 Len=0 TSval=2 TSecr=24743077
27	23.22151600	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [FIN, ACK] Seq=53 Ack=137 Win=15552 Len=0 TSval=24748077 TSecr=24748077
28	23.22239500	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
29	23.22269100	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [FIN, ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
30	23.22284800	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [ACK] Seq=54 Ack=138 Win=15552 Len=0 TSval=24748078 TSecr=24748078

Frame 25: 90 bytes on wire (720 bits), 90 bytes captured (720 bits) on interface 0

Ethernet II, Src: Vmware_00:6e:24 (00:0c:29:00:6e:24), Dst: Dell_f4:9b:24 (90:b1:1c:f4:9b:24)

Internet Protocol Version 4, Src: 192.168.1.1 (192.168.1.1), Dst: 192.168.1.2 (192.168.1.2)

Transmission Control Protocol, Src Port: 6633 (6633), Dst Port: 64892 (64892), Seq: 29, Ack: 137, Len: 24

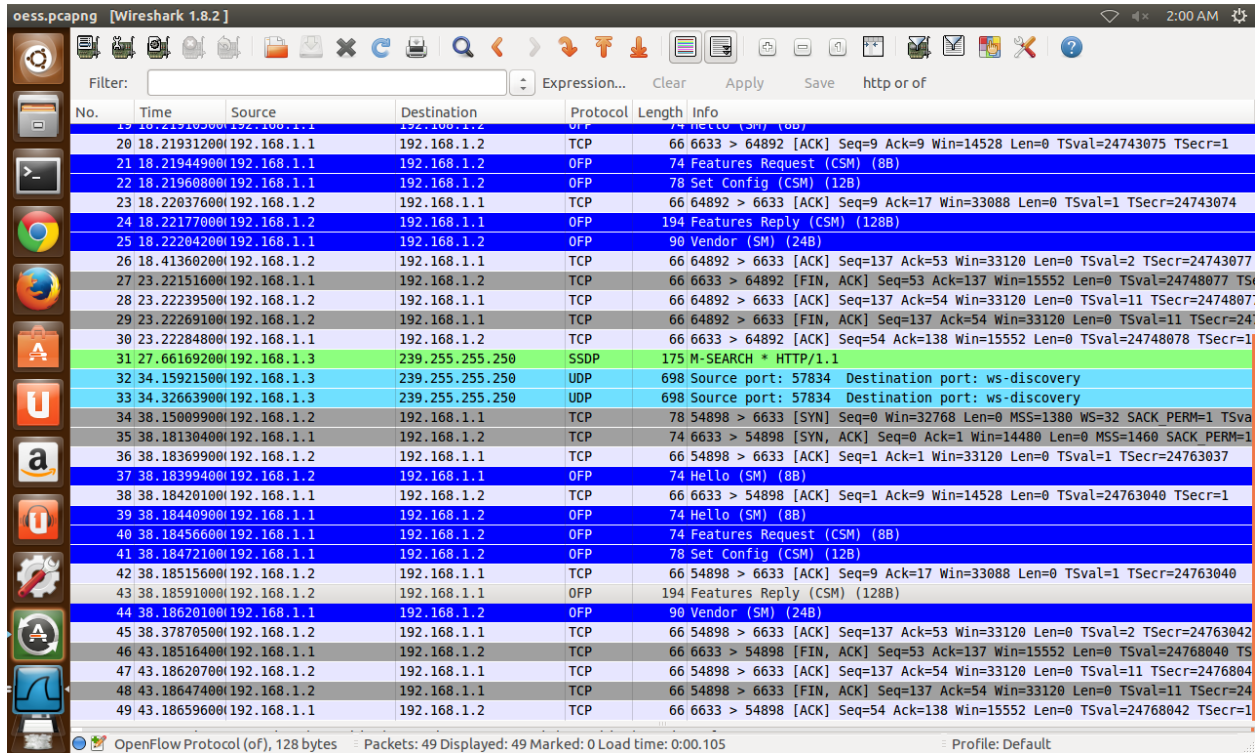
OpenFlow Protocol

Header

Vendor Message Body: 00002320000000000000000000000000

Vendor Message Body (of.vendor)... Packets: 49 Displayed: 49 Marked: 0 Load time: 0:00.000 Profile: Default

This message (number 25) is sent from controller (OESS) to switch .Next figures shows zoomed out view of what's happening



No.	Time	Source	Destination	Protocol	Length	Info
19	18.21910300	192.168.1.1	192.168.1.2	OFP	74	Hello (SM) (8B)
20	18.21931200	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [ACK] Seq=9 Ack=9 Win=14528 Len=0 TSval=24743075 TSecr=1
21	18.21944900	192.168.1.1	192.168.1.2	OFP	74	Features Request (CSM) (8B)
22	18.21960800	192.168.1.1	192.168.1.2	OFP	78	Set Config (CSM) (12B)
23	18.22037600	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=9 Ack=17 Win=33088 Len=0 TSval=1 TSecr=24743074
24	18.22177000	192.168.1.2	192.168.1.1	OFP	194	Features Reply (CSM) (128B)
25	18.22204200	192.168.1.1	192.168.1.2	OFP	90	Vendor (SM) (24B)
26	18.41360200	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=53 Win=33120 Len=0 TSval=2 TSecr=24743077
27	23.22151600	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [FIN, ACK] Seq=53 Ack=137 Win=15552 Len=0 TSval=24748077 TSecr=1
28	23.22239500	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
29	23.22269100	192.168.1.2	192.168.1.1	TCP	66	64892 > 6633 [FIN, ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24748077
30	23.22284800	192.168.1.1	192.168.1.2	TCP	66	6633 > 64892 [ACK] Seq=54 Ack=138 Win=15552 Len=0 TSval=24748078 TSecr=1
31	27.66169200	192.168.1.3	239.255.255.250	SSDP	175	M-SEARCH * HTTP/1.1
32	34.15921500	192.168.1.3	239.255.255.250	UDP	698	Source port: 57834 Destination port: ws-discovery
33	34.32663900	192.168.1.3	239.255.255.250	UDP	698	Source port: 57834 Destination port: ws-discovery
34	38.15009900	192.168.1.2	192.168.1.1	TCP	78	54898 > 6633 [SYN] Seq=0 Win=32768 Len=0 MSS=1380 WS=32 SACK_PERM=1 TSval=24763037 TSecr=0
35	38.18130400	192.168.1.1	192.168.1.2	TCP	74	6633 > 54898 [SYN, ACK] Seq=0 Ack=1 Win=14480 Len=0 MSS=1460 SACK_PERM=1 TSval=24763037 TSecr=0
36	38.18369900	192.168.1.2	192.168.1.1	TCP	66	54898 > 6633 [ACK] Seq=1 Ack=1 Win=33120 Len=0 TSval=1 TSecr=24763037
37	38.18399400	192.168.1.2	192.168.1.1	OFP	74	Hello (SM) (8B)
38	38.18420100	192.168.1.1	192.168.1.2	TCP	66	6633 > 54898 [ACK] Seq=1 Ack=9 Win=14528 Len=0 TSval=24763040 TSecr=1
39	38.18440900	192.168.1.1	192.168.1.2	OFP	74	Hello (SM) (8B)
40	38.18456600	192.168.1.1	192.168.1.2	OFP	74	Features Request (CSM) (8B)
41	38.18472100	192.168.1.1	192.168.1.2	OFP	78	Set Config (CSM) (12B)
42	38.18515600	192.168.1.2	192.168.1.1	TCP	66	54898 > 6633 [ACK] Seq=9 Ack=17 Win=33088 Len=0 TSval=1 TSecr=24763040
43	38.18591000	192.168.1.2	192.168.1.1	OFP	194	Features Reply (CSM) (128B)
44	38.18620100	192.168.1.1	192.168.1.2	OFP	90	Vendor (SM) (24B)
45	38.37870500	192.168.1.2	192.168.1.1	TCP	66	54898 > 6633 [ACK] Seq=137 Ack=53 Win=33120 Len=0 TSval=2 TSecr=24763042
46	43.18516400	192.168.1.1	192.168.1.2	TCP	66	6633 > 54898 [FIN, ACK] Seq=53 Ack=137 Win=15552 Len=0 TSval=24768040 TSecr=1
47	43.18620700	192.168.1.2	192.168.1.1	TCP	66	54898 > 6633 [ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24768040
48	43.18647400	192.168.1.2	192.168.1.1	TCP	66	54898 > 6633 [FIN, ACK] Seq=137 Ack=54 Win=33120 Len=0 TSval=11 TSecr=24768040
49	43.18659600	192.168.1.1	192.168.1.2	TCP	66	6633 > 54898 [ACK] Seq=54 Ack=138 Win=15552 Len=0 TSval=24768042 TSecr=1

As you can see after vendor message (25) TCP connection gets tore down.