

Protocol 0xfe68

No.	Time	Source	Destination	Protocol	Length	Info
129864	1502.214119	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
129912	1505.221284	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
129913	1505.221284	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
129914	1505.221284	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
129940	1508.228783	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
129941	1508.228783	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
129942	1508.228783	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
129999	1511.236176	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130000	1511.236176	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130001	1511.236329	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130095	1514.243650	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130096	1514.243650	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130097	1514.243650	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130121	1517.251247	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130122	1517.251266	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130123	1517.251290	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130133	1520.259221	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130134	1520.259221	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130135	1520.259221	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130138	1523.267604	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130139	1523.267604	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130140	1523.267604	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130155	1526.274227	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II
130156	1526.274227	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	180	Ethernet II
130157	1526.274227	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	111	Ethernet II
130228	1529.281271	liveboxfibra	Spanning-tree-(for-bridges)_ef:03:fe	0xfe68	102	Ethernet II

El protocolo 0xfe68 es un protocolo de comunicaciones real, no documentado (no encuentro nada sobre el por el momento), que comunica mi router liveboxfibra con otro dispositivo denominado Spanning-tree-(for-bridges) con una dirección MAC 01:80:c2:ef:03:fe.

Para encontrar algo de información sobre la dirección MAC, que tampoco se encuentra nada, hay que irse al Comité de Estándares IEEE 802 LAN/MAN, localizar el archivo [admin-jeffree-standard-group-mac-address-assignments-0307.pdf](#) y ubicarla en su rango correspondiente.

01-80-C2-00-03-00 to 01-80-C2-FF-FF-FF	<i>unassigned</i>		
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Es decir, no está asignada a ningún dispositivo. Sin embargo, el router no para de realizar conexiones a la misma constantemente.

En los paquetes, siempre están los caracteres “OSP”. Y siempre en la misma posición

0000	01 80 c2 ef 03 fe 30 b1 b5 04 fb 8f fe 68 03 03	0.....h...
0010	04 85 c4 c8 00 c0 01 80 c2 ef 03 fe 30 b1 b5 04	0.....
0020	fb 8e 0d 4f 53 50 03 03 0e 85 c4 c8 00 c0 f9 8c	...OSP.....
0030	f2 ad 68 38 a9 f1 33 7c ef 2c f7 d7 80 2b 73 57	..h8..3 ,...+sw
0040	42 90 a9 f1 33 7c ef 2c f7 d7 80 2b 73 57 42 90	B...3 ,...+swB..
0050	a9 f1 33 7c ef 2c f7 d7 80 2b 73 57 42 90 a9 f1	..3 ,...+swB...
0060	33 7c ef 2c f7 d7 80 2b 73 57 42 90 a9 f1 33 7c	3 ,...+ swB...3
0070	ef 2c f7 d7 80 2b 73 57 42 90 a9 f1 33 7c ef 2c	,...+sw B...3 ,
0080	f7 d7 80 2b 73 57 42 90 a9 f1 33 7c ee 82 35 ee	...+swB...3 ..5..
0090	9a 90 e9 19 a0 2e 03 7b d5 da de b5 33 7e 52 19	{3~R..
00a0	c1 b4 05 87 92 97 c9 74 42 ed 4f ae 15 b5 db a3	t B..0.....
00b0	b0 e8 f5 11	

Spanning-tree-for bridges es para Wireshark el [STP Protocol](#). En su página indica que sería una actividad propia del router.

Broadcom NetXtreme Gigabit Ethernet Driver (Microsoft's Packet Scheduler) - Wireshark

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Filter: stp Expression... Clear Apply

No.	Time	Source	Destination	Protocol	Info
32	1.393547	Cisco_1c:40:18	Spanning-tree-(for-bridges)_00	STP	Conf. Root = 8192/1/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018
33	1.393572	Cisco_1c:40:18	PVST+	STP	Conf. Root = 8192/1/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018
35	1.426123	Cisco_1c:40:18	PVST+	STP	Conf. Root = 8192/300/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018
78	3.390958	Cisco_1c:40:18	Spanning-tree-(for-bridges)_00	STP	Conf. Root = 8192/1/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018
79	3.390980	Cisco_1c:40:18	PVST+	STP	Conf. Root = 8192/1/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018
80	3.412186	Cisco_1c:40:18	PVST+	STP	Conf. Root = 8192/300/50:3d:e5:9f:d1:c0 Cost = 12 Port = 0x8018

Frame 32: 60 bytes on wire (480 bits), 60 bytes captured (480 bits)

IEEE 802.3 Ethernet

Logical-Link Control

Spanning Tree Protocol

Protocol Identifier: Spanning Tree Protocol (0x0000)

Protocol Version Identifier: Spanning Tree (0)

BPDU Type: Configuration (0x00)

BPDU flags: 0x00

Root Identifier: 8192 / 1 / 50:3d:e5:9f:d1:c0

Root Path Cost: 12

Bridge Identifier: 32768 / 1 / 00:1a:a2:1c:40:00

Port identifier: 0x8018

Message Age: 3

Max Age: 20

Hello Time: 2

Forward Delay: 15

```

0000 01 80 c2 00 00 00 00 1a a2 1c 40 18 00 26 42 42 .....@...&BB
0010 03 00 00 00 00 00 00 20 01 50 3d e5 9f d1 c0 00 00 .....P=.....
0020 00 0c 80 01 00 1a a2 1c 40 00 80 18 03 00 14 00 .....@.....
0030 02 00 0f 00 00 00 00 00 00 00 00 00 00 .....

```

Text item (text), 8 bytes

Packets: 128 Displayed: 6 Marked: 0 Dropped: 0

Profile: Default

En principio. Y dada la reiteración, sería eso. Lo extraño es que la dimensión de esos paquetes es muy pequeña. Y la de estos es muchísimo mayor. Es muy posible que, por la negabilidad, se pueda estar utilizando el STP propio del router y sumarle al mismo mensajes de esta gente, pasando así completamente inadvertidos para todo el mundo.

```

0000 01 80 c2 ef 03 fe 30 b1 b5 04 fb 8f fe 68 03 03 .....0. ....h..
0010 04 85 c1 18 00 c0 01 80 c2 ef 03 fe 30 b1 b5 04 .....0...
0020 fb 8e 0d 4f 53 50 03 03 0e 85 c1 18 00 c0 e7 8c ...OSP...
0030 e5 eb f5 ad c7 08 20 01 ed 3a d7 cd 79 51 4f 10 .....yQO.
0040 a0 b0 21 f2 11 b5 82 6e 4a f4 2c 22 7a 4e 97 92 ..!.....n J., "zN..
0050 52 dd df dc 80 49 b6 4e 97 92 52 dd df dc 80 49 R....I·N ·R....I
0060 b6 4e 97 92 52 dd df dc 80 49 b6 4e 97 92 52 dd ·N·R... ·I·N·R·
0070 df dc 80 49 b6 4e 97 92 52 dd df dc 80 49 b6 4e ··I·N· R....I·N
0080 97 92 52 dd df dc 80 49 b6 4e 97 92 52 49 67 ec ··R....I ·N·RIg·
0090 1d 41 2f 56 62 51 4e 96 e6 d0 db b8 c5 c0 61 41 ·A/VbQN· .....aA
00a0 6d 3c 22 a0 ad e9 5b 14 aa 8c e5 f3 a2 79 95 e2 m<"...[ · .....y..
00b0 b1 fc d7 cd .....

```

```

0000 01 80 c2 ef 03 fe 30 b1 b5 04 fb 8f fe 68 03 03 .....0. ....h..
0010 04 85 c1 52 00 c0 01 80 c2 ef 03 fe 30 b1 b5 04 ...R.... 0...
0020 fb 8e 0d 4f 53 50 03 03 0e 85 c1 52 00 c0 44 db ...OSP... ·R·D·
0030 39 f4 2c 22 7a 4e 97 92 52 dd df dc 80 49 b6 4e 9·,"zN· R....I·N
0040 97 92 52 dd df dc 80 49 b6 4e 97 92 52 dd df dc ··R....I ·N·R...
0050 80 49 b6 4e 97 92 52 dd df dc 80 49 b6 4e 97 92 ·I·N·R· ··I·N·
0060 52 dd df dc 80 49 b6 4e 97 92 52 dd df dc 80 49 R....I·N ·R....I
0070 b6 4e 97 92 52 dd df dc 80 49 b6 4e 97 92 52 dd ·N·R... ·I·N·R·
0080 df dc 80 49 b6 4e 97 92 52 dd df dc 81 01 ce 8a ··I·N· R.....
0090 dc 80 09 d2 c9 4d fd 4b d1 6f 78 d5 e6 d3 4e 47 .....M·K ·ox··NG
00a0 2c ff 9f 9d 40 9f ec a3 e3 0e f0 e8 db 98 a4 af ,...@...
00b0 32 50 4f dd 2PO·

```

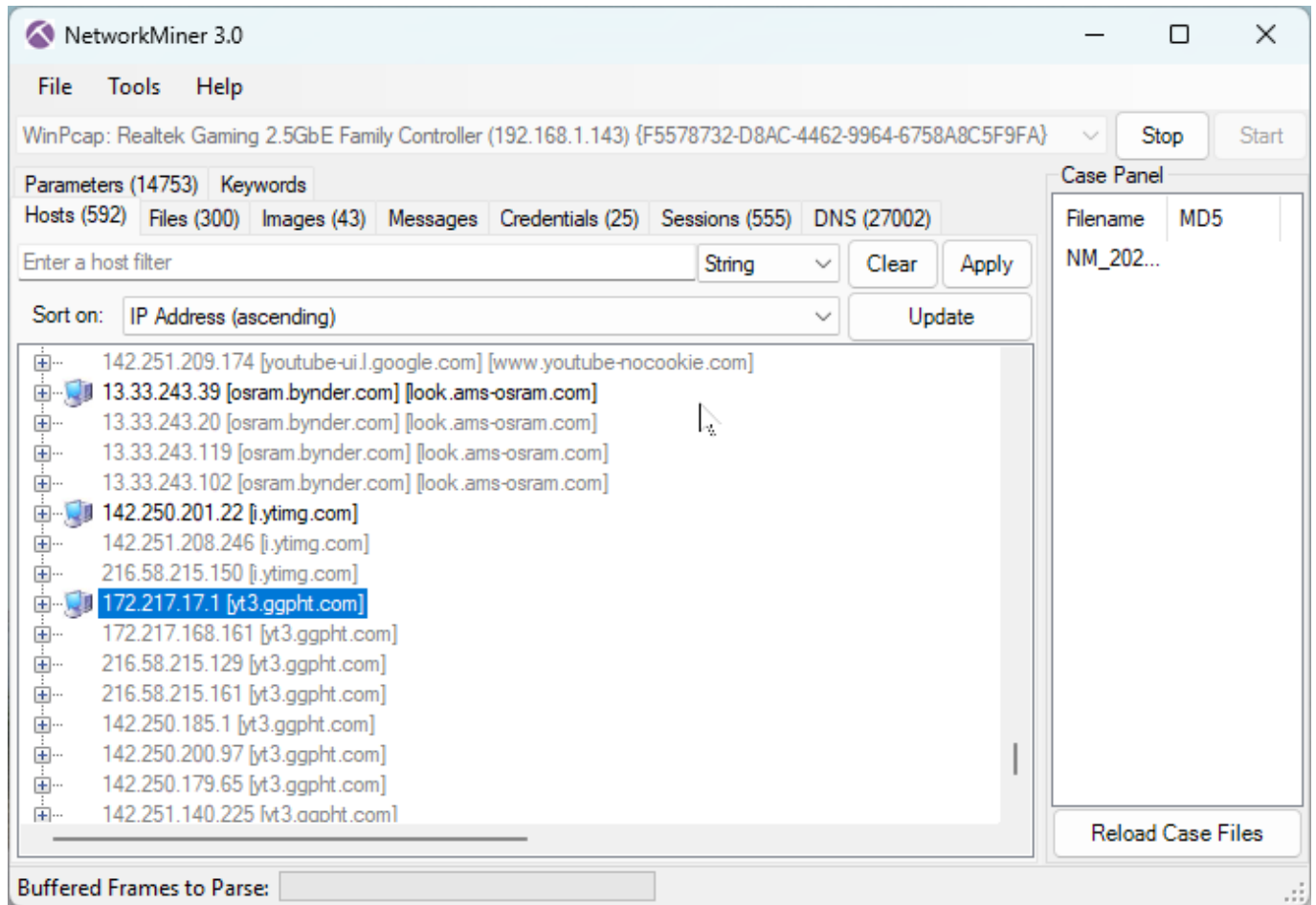
0000	01 80 c2 ef 03 fe 30 b1 b5 04 fb 8f fe 68 03 03	0.....h..
0010	04 85 c1 53 00 c0 01 80 c2 ef 03 fe 30 b1 b5 04	...S.... ...0...
0020	fb 8e 0d 4f 53 50 03 03 0e 85 c1 53 00 c0 d6 51	...OSP... ...S...Q
0030	cf 93 a9 14 9c 16 20 01 ed 3a d7 cd 79 51 4f 10	 :...yQ0.
0040	a0 b0 21 f2 11 b5 82 6e 4a f4 2c 22 7a 4e 97 92	..!....n J., "zN..
0050	52 dd df dc 80 49 b6 4e 97 92 52 dd df dc 80 49	R....I·N ··R....I
0060	b6 4e 97 92 52 dd df dc 80 49 b6 4e 97 92 52 dd	·N··R... ·I·N··R·
0070	df dc 80 49 b6 4e 97 92 52 dd df dc 80 49 b6 4e	...I·N·· R....I·N
0080	97 92 52 dd df dc 80 49 b6 4e 97 92 53 e7 11 88	..R....I ·N··S...
0090	5a 22 3a d1 f6 6d d7 cc f3 a2 c9 21 f3 a1 9a 92	Z":...m... ...!....
00a0	50 2d b0 70 ca ac 34 79 ca d8 35 87 73 d1 0c a2	P-·p··4y ··5·s...
00b0	c8 38 b9 5a	·8·Z

OSP

1. Open Settlement Protocol (OSP) for IP telephony,
<https://ams-osram.com/innovation/technology/open-system-protocol>
2. Open System Protocol (OSP) for dynamic lighting applications. allowing control of multiple devices in a master-slave architecture. It enables the integration of sensors and actuators for advanced lighting designs and smart surfaces.

Open System Protocol (OSP)

- Purpose: Developed by ams OSRAM, the Open System Protocol is designed for dynamic lighting applications, allowing control of multiple devices in a master-slave architecture. It enables the integration of sensors and actuators for advanced lighting designs and smart surfaces.
- Features:
- License-Free: OSP is open for everyone and does not require a license, promoting widespread adoption and innovation.
- Device Control: It can control over 1,000 devices individually, allowing for complex lighting setups and interactive functions.
- Communication Layers: OSP is structured into a base protocol covering the lower layers of the ISO/OSI model and a device-specific application layer.



Fuentes:

- <https://eipnet.net/index.php/2023/12/20/the-ieee-802-lan-man-standards-committee/>

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