某局点高端防火墙OSPF邻居震荡问题排查

双机热备 接口板 孔凡安 2024-02-22 发表

组网及说明

不涉及

告警信息

不涉及

问题描述

防火墙对接友商设备某一个业务接口OSPF以及OSPFv3邻居不定时震荡，日志如下：

【07:37:10:756】%Jan 6 04:31:35:216 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 04:31:35:225 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 04:38:22:018 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 04:38:46:664 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 04:54:18:250 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 04:54:25:756 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 05:01:55:351 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 05:02:00:673 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 05:04:08:777 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGIN: ITCuser logged in from 10.136.128.23.
【07:37:10:756】%Jan 6 05:04:09:992 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command echo $LANG in view shell failed to be matched.
【07:37:10:756】%Jan 6 05:09:42:835 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGOUT: ITCuser logged out from 10.136.128.23.
【07:37:10:756】%Jan 6 05:12:28:235 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received 1-Way and its state from FULL to INIT.
【07:37:10:756】%Jan 6 05:13:07:218 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received LoadingDone and its state from LOADING to FULL.
【07:37:10:756】%Jan 6 05:15:22:826 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGIN: ITCuser logged in from 10.136.128.23.
【07:37:10:756】%Jan 6 05:15:24:037 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command echo $LANG in view shell failed to be matched.
【07:37:10:756】%Jan 6 05:23:21:837 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGOUT: ITCuser logged out from 10.136.128.23.
【07:37:10:756】%Jan 6 05:30:28:215 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received 1-Way and its state from FULL to INIT.
【07:37:10:756】%Jan 6 05:30:37:218 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1

-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received LoadingDone and its state from LOADING to FULL.
【07:37:10:756】%Jan 6 05:41:14:135 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGIN: ITCuser logged in from 10.136.128.23.
【07:37:10:756】%Jan 6 05:41:15:351 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command echo $LANG in view shell failed to be matched.
【07:37:10:756】%Jan 6 05:42:26:304 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command dis ospf event-log in view shell failed to be matched.
【07:37:10:756】%Jan 6 05:42:43:884 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 05:43:00:673 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 05:51:34:984 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command dis interface HundredGigE 0/0/26 in view shell failed to be matched.
【07:37:10:756】%Jan 6 05:58:11:204 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGOUT: ITCuser logged out from 10.136.128.23.
【07:37:10:756】%Jan 6 05:58:12:936 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from FULL to INIT.
【07:37:10:756】%Jan 6 05:58:30:672 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPF/5/OSPF_NBR_CHG: OSPF 10 Neighbor 10.139.1.121(Route-Aggregation2) changed from LOADING to FULL.
【07:37:10:756】%Jan 6 06:00:13:308 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGIN: ITCuser logged in from 10.121.4.149.
【07:37:10:756】%Jan 6 06:00:14:568 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGOUT: ITCuser logged out from 10.121.4.149.
【07:37:10:756】%Jan 6 06:01:00:262 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGIN: ITCuser logged in from 10.136.128.23.
【07:37:10:756】%Jan 6 06:01:01:476 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/4/SHELL_CMD_MATCHFAIL: -User=ITCuser-IPAddr=10.136.128.23; Command echo $LANG in view shell failed to be matched.
【07:37:10:756】%Jan 6 06:13:18:165 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received 1-Way and its state from FULL to INIT.
【07:37:10:756】%Jan 6 06:13:35:352 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 SHELL/5/SHELL_LOGOUT: ITCuser logged out from 10.136.128.23.
【07:37:10:756】%Jan 6 06:13:47:217 2024 JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11 OSPFV3/5/OSPFv3_NBR_CHG: OSPFv3 100 Neighbor 10.139.0.2(Route-Aggregation2) received LoadingDone and its state from LOADING to FULL.

现场要求分析邻居异常中断原因。

过程分析

收集*display ospf event-log peer*信息如下：

【08:49:14:308】Date   Time   Local Address   Remote Address Router ID   Reason
【08:49:14:308】2024-01-06 08:34:49 10.139.1.122   10.139.1.121   10.139.0.2   1-Way
【08:49:14:325】2024-01-06 08:19:38 10.139.1.122   10.139.1.121   10.139.0.2   1-Way
【08:49:14:325】2024-01-06 07:52:50 10.139.1.122   10.139.1.121   10.139.0.2   1-Way
【08:49:14:325】2024-01-06 07:36:47 10.139.1.122   10.139.1.121   10.139.0.2   1-Way
【08:49:14:341】2024-01-06 06:28:23 10.139.1.122   10.139.1.121   10.139.0.2   1-Way
【08:49:14:341】2024-01-06 06:23:50 10.139.1.122   10.139.1.121   10.139.0.2   1-Way

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【08:49:14:341】2024-01-06 05:58:12 10.139.1.122    10.139.1.121    10.139.0.2
1-Way
【08:49:14:341】2024-01-06 05:42:43 10.139.1.122    10.139.1.121    10.139.0.2
1-Way
【08:49:14:361】2024-01-06 05:01:55 10.139.1.122    10.139.1.121    10.139.0.2
1-Way
【08:49:14:361】2024-01-06 04:54:18 10.139.1.122    10.139.1.121    10.139.0.2
1-Way
【08:49:14:378】2024-01-06 04:38:22 10.139.1.122    10.139.1.121    10.139.0.2
1-Way

【08:49:14:378】2024-01-06 04:31:35 10.139.1.122    10.139.1.121    10.139.0.2
1-Way
```

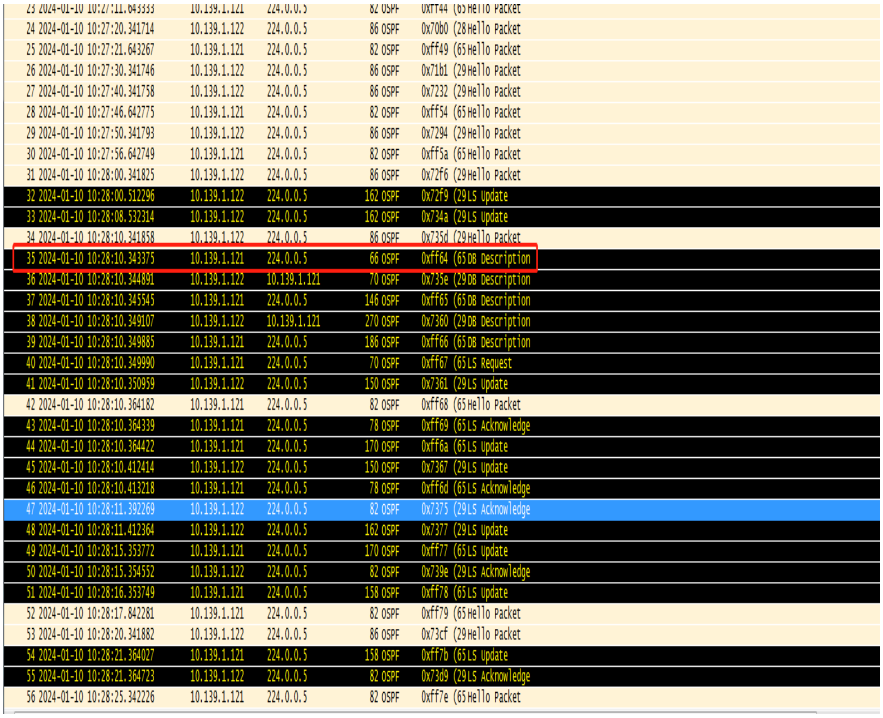
可以发现邻居震荡是因为收到对端的1-Way报文导致本端邻居震荡。需要对端分析为何发送1-Way报文
。
本端周期发送报文，如下：

```
【08:48:15:708】
【08:48:15:708】          OSPF Process 10 with Router ID 10.139.0.3
【08:48:15:708】                Hello Log
【08:48:15:724】
【08:48:15:724】
【08:48:15:724】Interface RAGG2
【08:48:15:724】Neighbor address: 10.139.1.121, NbrID: 10.139.0.2
【08:48:15:724】First 4 hello packets sent:
【08:48:15:724】  2023-09-06 02:00:21:577, succeeded
【08:48:15:724】  2023-09-06 02:00:35:239, succeeded
【08:48:15:724】  2023-09-06 02:00:45:239, succeeded
【08:48:15:755】  2023-09-06 02:00:55:239, succeeded
【08:48:15:758】Last 4 hello packets sent before Full->Init at 2024-01-06 08:34:49:5
04
【08:48:15:758】  2024-01-06 08:34:10:664, succeeded
【08:48:15:758】  2024-01-06 08:34:20:664, succeeded
【08:48:15:758】  2024-01-06 08:34:30:664, succeeded
【08:48:15:758】  2024-01-06 08:34:40:664, succeeded

【08:48:04:670】RBM_P<JNSC-P-PUB-CMNET-H3C-M9016V-1-ITC11>dis ospf ev
ent-log hello received
【08:48:04:701】
【08:48:04:733】          OSPF Process 10 with Router ID 10.139.0.3
【08:48:04:733】                Hello Log
【08:48:04:733】
【08:48:04:733】
【08:48:04:733】Interface RAGG2
【08:48:04:733】Neighbor address: 10.139.1.121, NbrID: 10.139.0.2
【08:48:04:733】First 4 hello packets received:
【08:48:04:733】  2023-09-07 14:41:52:642
【08:48:04:733】  2023-09-07 14:41:52:674
【08:48:04:749】  2023-09-07 14:42:00:142
【08:48:04:749】  2023-09-07 14:42:10:142
【08:48:04:749】Last 4 hello packets received before Full->Init at 2024-01-06 08:34:
49:504
【08:48:04:749】  2024-01-06 08:34:26:203
【08:48:04:749】  2024-01-06 08:34:36:202
【08:48:04:749】  2024-01-06 08:34:43:702
【08:48:04:765】  2024-01-06 08:34:49:504
```

将以上分析同步现场后，协调对端一起查看，对端显示Reason:DeadTimerExpire。

于是建议现场两边同步抓包对比，本端抓包如下：



23	2024-01-10 10:27:11.644353	10.139.1.121	224.0.0.5	82 OSPF	0xff44 (65 Hello Packet
24	2024-01-10 10:27:20.341714	10.139.1.122	224.0.0.5	86 OSPF	0x70b0 (29 Hello Packet
25	2024-01-10 10:27:21.643267	10.139.1.121	224.0.0.5	82 OSPF	0xff49 (65 Hello Packet
26	2024-01-10 10:27:30.341746	10.139.1.122	224.0.0.5	86 OSPF	0x71b1 (29 Hello Packet
27	2024-01-10 10:27:40.341758	10.139.1.122	224.0.0.5	86 OSPF	0x7232 (29 Hello Packet
28	2024-01-10 10:27:46.642775	10.139.1.121	224.0.0.5	82 OSPF	0xff54 (65 Hello Packet
29	2024-01-10 10:27:50.341793	10.139.1.122	224.0.0.5	86 OSPF	0x7294 (29 Hello Packet
30	2024-01-10 10:27:56.642749	10.139.1.121	224.0.0.5	82 OSPF	0xff5a (65 Hello Packet
31	2024-01-10 10:28:00.341825	10.139.1.122	224.0.0.5	86 OSPF	0x72f6 (29 Hello Packet
32	2024-01-10 10:28:00.512296	10.139.1.122	224.0.0.5	162 OSPF	0x72f9 (29 LS Update
33	2024-01-10 10:28:08.532314	10.139.1.122	224.0.0.5	162 OSPF	0x734a (29 LS Update
34	2024-01-10 10:28:10.341858	10.139.1.122	224.0.0.5	86 OSPF	0x735d (29 Hello Packet
35	2024-01-10 10:28:10.343375	10.139.1.121	224.0.0.5	66 OSPF	0xff64 (65 DB Description
36	2024-01-10 10:28:10.344891	10.139.1.122	10.139.1.121	70 OSPF	0x735e (29 DB Description
37	2024-01-10 10:28:10.345545	10.139.1.121	224.0.0.5	146 OSPF	0xff65 (65 DB Description
38	2024-01-10 10:28:10.349107	10.139.1.122	10.139.1.121	270 OSPF	0x7360 (29 DB Description
39	2024-01-10 10:28:10.349885	10.139.1.121	224.0.0.5	186 OSPF	0xff66 (65 DB Description
40	2024-01-10 10:28:10.349990	10.139.1.121	224.0.0.5	70 OSPF	0xff67 (65 LS Request
41	2024-01-10 10:28:10.350959	10.139.1.122	224.0.0.5	150 OSPF	0x7361 (29 LS Update
42	2024-01-10 10:28:10.364182	10.139.1.121	224.0.0.5	82 OSPF	0xff68 (65 Hello Packet
43	2024-01-10 10:28:10.364339	10.139.1.121	224.0.0.5	78 OSPF	0xff69 (65 LS Acknowledge
44	2024-01-10 10:28:10.364422	10.139.1.121	224.0.0.5	170 OSPF	0xff6a (65 LS Update
45	2024-01-10 10:28:10.412414	10.139.1.122	224.0.0.5	150 OSPF	0x7367 (29 LS Update
46	2024-01-10 10:28:10.413218	10.139.1.121	224.0.0.5	78 OSPF	0xff6d (65 LS Acknowledge
47	2024-01-10 10:28:11.392269	10.139.1.122	224.0.0.5	82 OSPF	0x7375 (29 LS Acknowledge
48	2024-01-10 10:28:11.412364	10.139.1.122	224.0.0.5	162 OSPF	0x7377 (29 LS Update
49	2024-01-10 10:28:15.353772	10.139.1.121	224.0.0.5	170 OSPF	0xff77 (65 LS Update
50	2024-01-10 10:28:15.354552	10.139.1.122	224.0.0.5	82 OSPF	0x739e (29 LS Acknowledge
51	2024-01-10 10:28:16.353749	10.139.1.121	224.0.0.5	158 OSPF	0xff78 (65 LS Update
52	2024-01-10 10:28:17.842281	10.139.1.121	224.0.0.5	82 OSPF	0xff79 (65 Hello Packet
53	2024-01-10 10:28:20.341882	10.139.1.122	224.0.0.5	86 OSPF	0x73cf (29 Hello Packet
54	2024-01-10 10:28:21.364027	10.139.1.121	224.0.0.5	158 OSPF	0xff7b (65 LS Update
55	2024-01-10 10:28:21.364723	10.139.1.122	224.0.0.5	82 OSPF	0x73d9 (29 LS Acknowledge
56	2024-01-10 10:28:25.342226	10.139.1.121	224.0.0.5	82 OSPF	0xff7e (65 Hello Packet

可以看出10:28:10之前，防火墙hello报文都是10s周期发包，对端10.139.1.121设备给我们发了个DB报文重新主从选举。
分析到现在，问题很明显和对端有关系。但是对端坚持说他们自己的hello报文也是规律发送，未收到华三发送的hello报文。
如果双方均显示正常的话，一般会在中间串一个交换机镜像抓包做仲裁，看到底是谁的问题。可惜客户不同意。

本人不信邪，查看了下对端的日志。疑点有两处：
1. 对端的hello包发送的并不规律，并非10 S一次。

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5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:22 KPSVR_OSPF: int:smartgroup13 src:10.139.1.125 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:25 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:25 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2_PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2_ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2_PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:30 OSPFv2_PACKET: OSPF rx pkt type: 1,src: 10.139.1.126,dst: 224.0.0.5,ifNode: smartgroup13.
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:30 OSPFv2_ADJ: Rcv hello from 10.139.1.126 area 0.0.0.0 on intf smartgroup13
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:30 OSPFv2_PACKET: int:smartgroup13 src:10.139.1.126 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.125
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: int:smartgroup13 src:10.139.1.125 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:37 OSPFv2_EVENTS: Intf 10.139.1.121 clear nbr 10.139.1.122 ddHold in ospf instance 10
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 OSPFv2_PACKET: OSPF rx pkt type: 1,src: 10.139.1.126,dst: 224.0.0.5,ifNode: smartgroup13.
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 OSPFv2_ADJ: Rcv hello from 10.139.1.126 area 0.0.0.0 on intf smartgroup13
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 OSPFv2_PACKET: int:smartgroup13 src:10.139.1.126 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:42 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.125
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:42 KPSVR_OSPF: int:smartgroup13 src:10.139.1.125 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2_PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2_ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2_PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.125
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: int:smartgroup13 src:10.139.1.125 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 OSPFv2_PACKET: OSPF rx pkt type: 1,src: 10.139.1.126,dst: 224.0.0.5,ifNode: smartgroup13.
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 OSPFv2_ADJ: Rcv hello from 10.139.1.126 area 0.0.0.0 on intf smartgroup13
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 OSPFv2_PACKET: int:smartgroup13 src:10.139.1.126 dest:224.0.0.5
5000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:57 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
```

我们发送

```
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:06                    scan next link:10.139.1.121/255.255.255.252->R[10.1
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:06                    scan next link:10.139.1.121/255.255.255.252->R[10.1
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:06 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:06 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:07 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:07 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:12 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:12 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:15 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:15 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:17 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:17 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:25 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:25 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:32 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:37 OSPFv2_EVENTS: Intf 10.139.1.121 clear nbr 10.139.1.122 ddHold in ospf instance 10
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:40 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:50 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:57 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:02:57 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:03:07 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:03:07 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:03:17 KPSVR_OSPF: Tx hello to 224.0.0.5 area 0.0.0.0 on intf 10.139.1.121
-M6000-02-ITC11 MPU-0/26/0 2024-1-10 12:03:17 KPSVR_OSPF: int:smartgroup12 src:10.139.1.121 dest:224.0.0.5
```

2. 本端发送的Hello报文很有规律，10S一次。

```
-ITC11 MPU-0/26/0 2024-1-10 12:02:06 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:09 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:02:09 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:02:09 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:17 OSPFv2 PACKET: OSPF rx pkt type: 5,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:02:17 OSPFv2 FLOOD: Received ack from 10.139.1.122
-ITC11 MPU-0/26/0 2024-1-10 12:02:17 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:19 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:02:19 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:02:19 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:02:29 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:37 OSPFv2 EVENTS: Intf 10.139.1.121 clear nbr 10.139.1.122 ddHold in ospf instance 10
-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode:
-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:02:49 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:02:59 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:02:59 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:02:59 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:03:09 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:03:09 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:03:09 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:03:19 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12.
-ITC11 MPU-0/26/0 2024-1-10 12:03:19 OSPFv2 ADJ: Rcv hello from 10.139.1.122 area 0.0.0.0 on intf smartgroup12
-ITC11 MPU-0/26/0 2024-1-10 12:03:19 OSPFv2 PACKET: int:smartgroup12 src:10.139.1.122 dest:224.0.0.5
-ITC11 MPU-0/26/0 2024-1-10 12:03:29 OSPFv2 PACKET: OSPF rx pkt type: 1,src: 10.139.1.122,dst: 224.0.0.5,ifNode: smartgroup12
```

对端答复他们机制就是这样，把我整的很无语。

解决方法

对端做了接口替换发现接口卡存在故障，更换故障接口卡之后解决。