问题描述

SR88配置与控制器对接BGP-LS邻居，发现起不来，为connect
抓包发现BGP 交互中，是控制器给我们发送了reset 重置连接。

No.	Time	Source	Destination	Protocol	Length	Data
1	0.000000	240b:8054::1	240b:8054::2	TCP	64	82958 → 379 [EST] Seq=0 Win=5535 Len=0 MSS=1024 SACK_PERM=1 TSval=360291358 TSecr=0 [RST] Seq=0 Win=0 Len=0
2	0.000000	240b:8054::2	240b:8054::1	TCP	64	379 → 82958 [ACK] Seq=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
4	0.000078	240b:8054::2	240b:8054::1	TCP	74	379 → 4396 [EST, ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
5	0.000085	240b:8054::2	240b:8054::1	TCP	64	379 → 3968 [EST, ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
6	0.000172	240b:8054::1	240b:8054::2	TCP	64	379 → 3968 [EST, ACK] Seq=1 Ack=1 Win=5535 Len=0 MSS=1024 SACK_PERM=1 TSval=360291358 TSecr=0 [RST] Seq=0 Win=0 Len=0
7	0.000177	240b:8054::2	240b:8054::1	TCP	68	3968 → 829 [ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
8	0.001591	240b:8054::1	240b:8054::2	TCP	113	OPEN Message
9	0.001594	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
10	0.001594	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=78 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
11	0.000943	240b:8054::1	240b:8054::2	TCP	68	379 → 3968 [ACK] Seq=78 Ack=48 Win=4540 Len=0 TSval=360291354 TSecr=42758757
12	0.000955	240b:8054::1	240b:8054::2	BGP	169	KEEPALIVE Message
13	0.000953	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
14	0.000661	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [EST, ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
15	2.472652	240b:8054::2	240b:8054::1	TCP	64	379 → 379 [EST] Seq=0 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
16	0.000676	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
17	0.000676	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
18	0.000659	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
19	0.000659	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
20	0.000641	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
21	0.000553	240b:8054::2	240b:8054::1	TCP	68	379 → 3968 [ACK] Seq=78 Ack=48 Win=4540 Len=0 TSval=420463889 TSecr=427571246

No.	Time	Source	Destination	Protocol	Length	Data
1	0.000000	240b:8054::1	240b:8054::2	TCP	64	82958 → 379 [EST] Seq=0 Win=5535 Len=0 MSS=1024 SACK_PERM=1 TSval=360291358 TSecr=0 [RST] Seq=0 Win=0 Len=0
2	0.000000	240b:8054::2	240b:8054::1	TCP	74	379 → 4396 [ACK, ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
4	0.000078	240b:8054::2	240b:8054::1	TCP	74	379 → 4396 [EST, ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
5	0.000085	240b:8054::2	240b:8054::1	TCP	64	379 → 3968 [EST, ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
6	0.000172	240b:8054::1	240b:8054::2	TCP	64	379 → 3968 [EST, ACK] Seq=1 Ack=1 Win=5535 Len=0 MSS=1024 SACK_PERM=1 TSval=360291358 TSecr=0 [RST] Seq=0 Win=0 Len=0
7	0.000177	240b:8054::2	240b:8054::1	TCP	68	3968 → 829 [ACK] Seq=1 Ack=1 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
8	0.001591	240b:8054::1	240b:8054::2	TCP	113	OPEN Message
9	0.001594	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
10	0.001594	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=78 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
11	0.000943	240b:8054::1	240b:8054::2	TCP	68	379 → 3968 [ACK] Seq=78 Ack=48 Win=4540 Len=0 TSval=360291354 TSecr=42758757
12	0.000955	240b:8054::1	240b:8054::2	BGP	169	KEEPALIVE Message
13	0.000953	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
14	0.000661	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [EST, ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
15	2.472652	240b:8054::2	240b:8054::1	TCP	64	379 → 379 [EST] Seq=0 Win=0 Len=0 [TCP CHECKSUM INCORRECT] Len=0
16	0.000676	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
17	0.000676	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
18	0.000659	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
19	0.000659	240b:8054::2	240b:8054::1	TCP	113	OPEN Message
20	0.000641	240b:8054::2	240b:8054::1	TCP	68	3968 → 379 [ACK] Seq=1 Ack=97 Win=2880 [TCP CHECKSUM INCORRECT] Len=0
21	0.000553	240b:8054::2	240b:8054::1	TCP	68	379 → 3968 [ACK] Seq=78 Ack=48 Win=4540 Len=0 TSval=420463889 TSecr=427571246

后续，控制器侧排查服务器的日志，发现，是由于bgp capability不对等导致，发起reset流程。后续查看设备配置，CR16K上面不仅配置和控制器的ls邻居，还配置有EVPN的BGP邻居（没有建立起来，但是有邻居配置），因此导致

CR16K发送的协议报文，包含有其他地址族的capability属性，而控制器那边的BGP实现只能支持BGP LS邻居，不支持其他协议族的邻居，从而造成控制器发送RESET 报文，影响BGP邻居建立。

解决方法

后续设备删除EVPN BGP的配置，问题解决。