

知 SR8808 nqa不生效

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组网及说明

路由器 (1.1.1.1) --- (ospf) ---传输设备----- (1.1.1.2) 交换机

问题描述

手动断掉nqa探测地址的接口，看track一直是Positive状态，同时也没有down掉 FortyGigE1/1/5 这个接口

```
interface Ten-GigabitEthernet1/0/1
port link-mode route
ip address x.x.1.1 255.255.255.252
ospf network-type p2p
ospfv3 300 area 0.0.0.0
ospfv3 network-type p2p
#
nqa entry admin NQA
type icmp-echo
destination ip x.x.1.2
frequency 1000
next-hop ip x.x.1.2
probe count 10
probe timeout 1000
reaction 1 checked-element probe-fail threshold-type consecutive 5 action-type trigger-only
source ip x.x.1.1
```

```
nqa schedule admin MHZWY start-time now lifetime forever
```

```
track 1 nqa entry admin NQA reaction 1
```

```
#
```

```
rtm cli-policy data-down
event track 1 state negative
action 0 cli system-view
action 1 cli interface FortyGigE1/1/5
action 2 cli shutdown
user-role network-admin
user-role network-operator
commit
```

```
#
```

```
rtm cli-policy data-up
event track 1 state positive
action 0 cli system-view
action 1 cli interface FortyGigE1/1/5
action 2 cli undo shutdown
user-role network-admin
user-role network-operator
commit
```

```
#
```

track的状态也是Positive，未改变

```
-----display track all-----
```

```
Track ID: 1
State: Positive
Duration: 0 days 0 hours 7 minutes 24 seconds
Tracked object type: NQA
Notification delay: Positive 0, Negative 0 (in seconds)
Tracked object:
NQA entry: admin mhzwY
Reaction: 1
Remote IP/URL: x.x.1.2
Local IP: x.x.1.1
Interface: --
```

过程分析

断掉交换机x.x.1.2所在接口时，发现路由器pingx.x.1.2还是能通
因为通过OSPF学到了此路由，但是下一跳地址改变了，所以nqa entry admin NQA就无法匹配了

Destination/Mask	Proto	Pre	Cost	NextHop	Interface
x.x.1.2/30	O_INTRA	10	352	x.x.1.5	FGE5/2/1.100

在track没联动成功时查看NQA信息，发现一直有内部报错计数增加

```
[H3C]dis nqa statistics admin NQA
```

```
NQA entry (admin admin, tag naq) test statistics:
```

```
NO. : 1
```

```
Start time: 2023-10-24 17:18:23.1
```

```
Life time: 140 seconds
```

```
Send operation times: 860      Receive response times: 860
```

```
Min/Max/Average round trip time: 1/38/2
```

```
Square-Sum of round trip time: 10657
```

```
Extended results:
```

```
Packet loss ratio: 0%
```

```
Failures due to timeout: 0
```

```
Failures due to internal error: 540    ///因内部错误失败的次数
```

```
Failures due to other errors: 0
```

```
Reaction statistics:
```

Index	Checked Element	Threshold Type	Checked Num	Over-threshold Num
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1	probe-fail	consecutive	860	0
---	------------	-------------	-----	---

内部报错，不在Over-threshold Num值里体现，所以这里的探测失败次数显示为0。

解决方法

将 next-hop ip , 改为out interface 配置探测报文出接口
且当因内部错误探测失败, 无法联动track项切换

