

SR从R16XX的版本升级到R22XX之后的版本
VRRP状态异常的问题

MSR从R16XX的版本升级到22XX的版本之后，vrrp异常，vrrp 100及174始终在Initialize状态，状态如下：

<H3C>display vrrp

IPv4 Standby Information:

Run Mode : Standard

Run Method : Virtual MAC

Total number of virtual routers : 6

Interface	VRID	State	Run Pri	Adver Timer	Auth Type	Virtual IP
Vlan100	100	Initialize	110	1	None	*.16.0.98
Vlan110	110	Master	110	1	None	*.16.191.98
Vlan120	120	Master	110	1	None	*.16.172.98
Vlan128	128	Master	110	1	None	*.16.128.98
Vlan140	140	Backup	100	1	None	*.16.63.98
Vlan174	174	Initialize	110	1	None	*.16.174.1

打开如下debug开关后确认是hash冲突

debugging lsw event ptvl general

debugging lsw error ptvl general

debugging lsw error macm function

从debug信息我们可以看到：

%Jul 2 16:51:29:918 2013 1 VRRP/6/VRRP_STATUS_CHANGE: The status of IPv4 virtual router 100 (configured on Vlan-interface100) changed from Backup to Master: Timer expired.

%Jul 2 16:51:29:926 2013 1 VRRP/3/VRRP_VMAC_DRIVER_ERROR: The IPv4 virtual router 100 (configured on Vlan-interface100) failed to add virtual MAC: Unknown.

%Jul 2 16:51:29:927 2013 1 VRRP/6/VRRP_STATUS_CHANGE: The status of IPv4 virtual router 100 (configured on Vlan-interface100) changed from Master to Initialize: Adding virtual MAC address failed.

*Jul 2 16:51:29:927 2013 1 DRVDBG/7/debugging:

MACMFUNCTION_ERR(5259): MV adding virtual MAC. Add MacEntry fail(19)! // 19表示hash冲突。

*Jul 2 16:51:29:927 2013 1 DRVDBG/7/debugging:

PTVLGENERAL_ERR(3806): junior function to add MAC 0000-5e00-0164 for virtual interface 3801187 of VLAN 100 on slot 2 chip 0 failed!

*Jul 2 16:51:29:927 2013 1 DRVDBG/7/debugging:

PTVLGENERAL_EVT: Del virtual mac of vlan-intf: Cannot find the virtual mac, return OK

因为新版本新增支持HGMP和LLDP等功能，这些协议也需要下发mac地址，所以导致新版本中添加虚拟mac hash冲突，无法添加成功。