

# 知 关于S6800设备硬件模式注意事项

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组网及说明

无

问题描述

无

## 过程分析

H3C S6800系列交换机存在多种硬件模式，不同模式下设备支持的特性不同，常见的几类硬件模式如下，具体详见对应产品官网配置指

导[http://www.h3c.com/cn/d\\_202104/1403995\\_30005\\_0.htm#\\_Toc70505536](http://www.h3c.com/cn/d_202104/1403995_30005_0.htm#_Toc70505536):

- 系统工作模式 (通过system-working-mode命令配置)。
- 表项容量 (通过hardware-resource switch-mode命令配置)。
- 最大等价路由条数 (通过max-ecmp-num命令配置)。
- IPv4等价路由增强模式 (通过ecmp mode enhanced命令配置)。
- 前缀大于64位的IPv6路由功能 (通过hardware-resource routing-mode ipv6-128命令配置)。
- VXLAN的硬件资源模式 (通过hardware-resource vxlan命令配置)。产品代码为LS-6800-32Q、LS-6800-2C、LS-6800-4C、LS-6800-54QF或LS-6800-54QT的机型不支持此命令。

在替换或扩容的场景下，需重点关注如下几点：

- 单机场景下，需确保新设备的硬件模式与替换前的设备一致，或满足对应现场组网要求。
- 堆叠场景下，需确保新设备与其他IRF成员设备之间或新设备之间的硬件模式一致，否则堆叠失败。

各类硬件模式查看命令及调整命令：

n 系统工作模式查看及修改命令如下，修改对应模式后需重启后生效：

```
<S6800>display system-working-mode
```

```
The current system working mode is standard.
```

```
The system working mode for next startup is standard.
```

```
[S6800] system-working-mode { standard | advance | expert }
```

```
Do you want to change the system working mode? [Y/N]:y
```

```
System working mode changed. For the change to take effect, save the running configuration and reboot the device.
```

n 表项容量、IPv6路由功能及VXLAN硬件资源模式查看及修改命令如下，修改对应模式后需均重启后生效：

```
<S6800>display hardware-resource
```

```
Switch-mode resource(switch-mode), all supported modes:
```

```
0  MAC table is 288K, L3 host table is 16K, LPM Table is 16K
1  MAC table is 224K, L3 host table is 80K, LPM Table is 16K
2  MAC table is 160K, L3 host table is 144K, LPM Table is 16K
3  MAC table is 96K, L3 host table is 208K, LPM Table is 16K
4  MAC table is 32K, L3 host table is 16K, LPM Table is 250K
```

```
-----
Default  Current  Next
0         3         3
```

```
Routing-mode resource(routing-mode), all supported modes:
```

```
ipv6-64      ipv6-64 supported
ipv6-128     ipv6-128 supported
```

```
-----
Default  Current  Next
ipv6-64  ipv6-128  ipv6-128
```

```
Vxlan resource(vxlan), all supported modes:
```

```
l2gw        L2 gateway--underlay/overlay 48K/0K
l3gw8k      L3 gateway--underlay/overlay 40K/8K
l3gw16k     L3 gateway--underlay/overlay 32K/16K
l3gw24k     L3 gateway--underlay/overlay 24K/24K
l3gw32k     L3 gateway--underlay/overlay 16K/32K
l3gw40k     L3 gateway--underlay/overlay 8K/40K
border8k    Border--underlay/overlay 40K/8K
border16k   Border--underlay/overlay 32K/16K
border24k   Border--underlay/overlay 24K/24K
border32k   Border--underlay/overlay 16K/32K
border40k   Border--underlay/overlay 8K/40K
```

```
-----
Default  Current  Next
```

l2gw l3gw16k l3gw16k

#### 解决方法

```
[S6800] hardware-resource switch-mode { 0 | 1 | 2 | 3 | 4 }
```

Do you want to change the specified hardware resource working mode? [Y/N]:y

The hardware resource working mode is changed, please save the configuration and reboot the system to make it effective.

```
[S6800] hardware-resource routing-mode { ipv6-64 | ipv6-128 }
```

Reboot device to make the configuration take effect.

```
[Sysname] hardware-resource vxlan { border8k | border16k | border24k | border32k | border40k | l2gw | l3gw8k | l3gw16k | l3gw24k | l3gw32k | l3gw40k }
```

Reboot device to make the configuration take effect.

n 最大等价路由条数查看及修改命令如下，修改对应模式后需重启后生效：

```
<S6800>display max-ecmp-num
```

Max-ECMP-Num in use: 8

Max-ECMP-Num at the next reboot: 8

```
[Sysname] max-ecmp-num number
```

The configuration will take effect at the next reboot. Continue? [Y/N]:y

Reboot device to make the configuration take effect.

n IPv4等价路由增强模式查看及修改命令如下，修改对应模式后需重启后生效：

```
<S6800>display ecmp mode
```

ECMP-Mode in use: Default

ECMP-Mode at the next reboot: Default

```
[S6800] ecmp mode { compressed | enhanced }
```

The configuration will take effect at the next reboot. Continue? [Y/N]:y

Reboot device to make the configuration take effect.

