Ping doesn't work on a port with bridged mode in MSR router

**Labels: HPE Router**

**Q:**

Why ping does not work if port is configured with \*\***port link-mode bridge**\*\*?

Why ping works when the same port is configured with \*\***port link-mode route**\*\*?

Also,

If you try to configure a routed port in MSR router to \*\*port link-mode bridge\*\*, below error message could be seen.

[MSR3044-GigabitEthernet0/2]%Aug 30 13:07:28:356 2021 MSR3044**DRVMSG/5/DRVMSG: This interface can be used only for the EVI feature when it is operating in bridge mode.**

**A:**

**This is a hardware limitation set by the modules used in MSR routers.**

Some interfaces on Ethernet switching modules and interface modules can operate only as Layer 3 interfaces, as shown in [Table 207](https://www.h3c.com/en/d_202102/1381337_294551_0.htm" \l "_Ref62659063). Some interfaces operate as Layer 2 interfaces by default but can be changed to Layer 3 interfaces by using the port link-mode command, as shown in [Table 208](https://www.h3c.com/en/d_202102/1381337_294551_0.htm" \l "_Ref62659163).

|  |  |
| --- | --- |
| IMPORTANT | IMPORTANT:  ·     By default, the nine Ethernet interfaces on the DSIC-9FSW and DSIC-9FSWP interface modules operate in bridge mode. You can execute the port link-mode command to change the operating mode of any four interfaces to route. The remaining five interfaces can operate only in bridge mode.  ·     When the SIC-4FSW, SIC-4FSWP, DSIC-9FSW, or DSIC-9FSWP interface module is installed on an MSR2600-10 or MSR2600-17 router, you can change the operating mode of any two interfaces to route. The remaining interfaces can operate only in bridge mode.  ·     When the SIC-4FSW, SIC-4FSWP, DSIC-9FSW, or DSIC-9FSWP interface module is installed on other routers than MSR2600-10 and MSR2600-17 routers, you can change the operating mode of any four interfaces to route. The remaining interfaces can operate only in bridge mode.  ·     For the interface module compatibility with router models, see "[Appendix B Purchase guide](https://www.h3c.com/en/d_202102/1381337_294551_0.htm" \l "_Ref62205781)." |

Table 207 Ethernet interfaces that can operate only as Layer 3 interfaces

|  |  |
| --- | --- |
| Etherent switching module/Ethernet interface module | Interfaces that can operate only as Layer 3 interfaces |
| SIC-4FSW | N/A |
| SIC-4FSWP | N/A |
| DSIC-9FSW | N/A |
| DSIC-9FSWP | N/A |
| SIC-4GSW | N/A |
| SIC-4GSWF | N/A |
| SIC-1FEA | FE0 |
| SIC-1FEF | SFP0 |
| SIC-1GEC-V2 | Combo 0 (GE0, SFP0) |
| HMIM-8GSW | N/A |
| HMIM-24GSW | N/A |
| HMIM-24GSW-PoE | N/A |
| HMIM-8GSWF | N/A |
| HMIM-2GEE | GE0 and GE1 |
| HMIM-4GEE | GE0 to GE3 |
| HMIM-8GEE | GE0 to GE7 |
| HMIM-2GEF | SFP0 and SFP1 |
| HMIM-4GEF | SFP0 to SFP3 |
| HMIM-8GEF | SFP0 to SFP7 |
| RT-HMIM-4XP | SFP+0 to SFP+3 |

Table 208 Ethernet interfaces that operate as Layer 2 interfaces by default and can be changed to Layer 3 interfaces

|  |  |
| --- | --- |
| Etherent switching module/Ethernet interface module | Interfaces that operate as Layer 2 interfaces by default and can be changed to Layer 3 interfaces |
| SIC-4FSW | FE0 to FE3 |
| SIC-4FSWP | FE0 to FE3 |
| DSIC-9FSW | Any four interfaces |
| DSIC-9FSWP | Any four interfaces |
| SIC-4GSW | GE0 to GE3 |
| SIC-4GSWF | SFP0 to SFP3 |
| SIC-1FEA | N/A |
| SIC-1FEF | N/A |
| SIC-1GEC-V2 | N/A |
| HMIM-8GSW | GE0 to GE5, Combo 6 (GE6, SFP6), Combo 7 (GE7, SFP7) |
| HMIM-24GSW | GE0 to GE23 |
| HMIM-24GSW-PoE | GE0 to GE23 |
| HMIM-8GSWF | SFP0 to SFP3, Combo 4 (GE4, SFP4), Combo 5 (GE5, SFP5), Combo 6 (GE6, SFP6), Combo 7 (GE7, SFP7) |
| HMIM-2GEE | N/A |
| HMIM-4GEE | N/A |
| HMIM-8GEE | N/A |
| HMIM-2GEF | N/A |
| HMIM-4GEF | N/A |
| HMIM-8GEF | N/A |
| RT-HMIM-4XP | N/A |

**Please check below interface module guide for complete details(Appendix B).**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en\_US&docId=c04418333

**Attachments:**

[HPE\_c04418333\_HPE FlexNetwork MSR Router Series Interface Module Guide.pdf](https://akb.arubanetworks.com/private/articles/612e19ac853cb50f7b3856d8/attachments/HPE_c04418333_HPE FlexNetwork MSR Router Series Interface Module Guide.pdf/)

Tags: HPE Router, yc.16.03.0006, msr 3044, msr router