一、关键告警

设备类型：${alarmType}$

【结论】${alarmConclusion}$

|  |  |  |  |
| --- | --- | --- | --- |
| ##{alarmList}## | | | |
| 网元 | 告警名称 | 问题原因 | 处理方式 |
| ${connectionName}$ | ${alarmName}$ | ${alarmReason}$ | ${alarmSolution}$ |

二、设备容量

1、PGW、CG：

【结论】${pgw\_cg\_deviceCapacityConclusion}$

PGW软件license利用率：

${pgwAvailabilityList}$

CG磁盘占用率：

|  |  |  |
| --- | --- | --- |
| ##{diskDetailList}## | | |
| 网元名称 | 单板 | 磁盘空间占用率 (%) |
| ${connectionName}$ | ${boardName}$ | ${availability}$ |

2、PCRF/SPR

【结论】${pcrf\_spr\_deviceCapacityConclusion}$

${pcrf\_spr\_deviceCapacityList}$

3、数通设备

CE01-06设备端口及利用率如下：

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **设备名称** | **本端端口** | **VPN实例** | **对端设备名称** | **对端端口** | **端口利用率** |
| NF-SHT-M-CE01-H3C-CR16010 | GE0/1/7 | ChinaMobile\_M2M\_Connection | GDSHT-BA-IPNET-RT03-NE40EX16 | GE2/2/0 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/7}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE2/2/0}$% |
| GE1/1/1 | ChinaMobile\_M2M\_Connection | NF-SHT-M-CE05-H3C-CR16010 | GE0/1/7 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE1/1/1}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1/7}$% |
| GE0/1/1 | ChinaMobile\_M2M\_Connection | NF-SHT-M-CE02-H3C-CR16010 | GE0/1/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/1}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1/1}$% |
| GE8/1/1 | NF-SHT-M-CE02-H3C-CR16010 | GE8/1/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE8/1/1}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE8/1/1}$% |
| GE0/1/2 | ChinaMobile\_M2M\_Connection | NFMPGW06AHW-Gy | GE1/1/4 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/2}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE1/1/4}$% |
| GE0/1/3 | GE2/1/4 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/3}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE2/1/4}$% |
| GE0/1/4 | ChinaMobile\_M2M\_Connection | NFMSPR02AZX-SOAP-PBOSS | GE3/10/4 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/4}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE3/10/4}$% |
| GE0/1/5 | ChinaMobile\_M2M\_Connection | NFMCG06AHW-Ga | GE0/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1}$% |
| GE0/1/6 | NFMCG07AHW-Ga | GE0/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1}$% |
| GE0/1/8 | ChinaMobile\_M2M\_Connection | NFMPGW06AHW-Ga | GE1/1/6 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/8}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE1/1/6}$% |
| GE0/1/9 | NFMPGW07AHW-Ga | GE2/1/6 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/9}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE2/1/6}$% |
| GE0/1/10 | ChinaMobile\_M2M\_Connection | NFMCG06AHW-Bi | GE0/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/10}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1}$% |
| GE0/1/11 | NFMCG07AHW-Bi | GE0/1 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE0/1/11}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE0/1}$% |
| GE8/1/4 | ChinaMobile\_M2M\_Connection | NFMSPR03AZX-SOAP-PBOSS | GE3/9/4 | In: ${NF-SHT-M-CE01-H3C-CR16010\_in\_GE8/1/4}$% out: ${NF-SHT-M-CE01-H3C-CR16010\_out\_GE3/9/4}$% |
| NF-SHT-M-CE02-H3C-CR16010 | GE0/1/7 | ChinaMobile\_M2M\_Connection | GDSHT-BA-IPNET-RT04-NE40EX16 | GE3/0/1 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/7}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE3/0/1}$% |
| GE1/1/1 | ChinaMobile\_M2M\_Connection | NF-SHT-M-CE05-H3C-CR16010 | GE0/1/7 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE1/1/1}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE0/1/7}$% |
| GE0/1/1 | ChinaMobile\_M2M\_Connection | NF-SHT-M-CE01-H3C-CR16010 | GE0/1/1 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/1}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE0/1/1}$% |
| GE8/1/1 | GE8/1/1 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE8/1/1}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE8/1/1}$% |
| GE0/1/2 | ChinaMobile\_M2M\_Connection | NFMPGW06AHW-Gy | GE1/1/4 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/2}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE1/1/4}$% |
| GE0/1/3 | GE2/1/4 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/3}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE2/1/4}$% |
| GE0/1/4 | ChinaMobile\_M2M\_Connection | NFMSPR02AZX-SOAP-PBOSS | GE3/10/4 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/4}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE3/10/4}$% |
| GE0/1/5 | ChinaMobile\_M2M\_Connection | NFMCG06AHW-Ga | GE1/1/6 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE1/1/6}$% |
| GE0/1/6 | NFMCG07AHW-Ga | GE2/1/6 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE2/1/6}$% |
| GE0/1/8 | ChinaMobile\_M2M\_Connection | NFMPGW06AHW-Ga | GE1/1/6 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/8}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE1/1/6}$% |
| GE0/1/9 | NFMPGW07AHW-Ga | GE2/1/6 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/9}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE2/1/6}$% |
| GE0/1/10 | ChinaMobile\_M2M\_Connection | NFMCG06AHW-Bi | GE0/3/4/0 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/10}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE0/3/4/0}$% |
| GE0/1/11 | NFMCG07AHW-Bi | GE0/3/4/1 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE0/1/11}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE0/3/4/1}$% |
| GE8/1/4 | ChinaMobile\_M2M\_Connection | NFMSPR03AZX-SOAP-PBOSS | GE3/10/4 | In: ${NF-SHT-M-CE02-H3C-CR16010\_in\_GE8/1/4}$% out: ${NF-SHT-M-CE02-H3C-CR16010\_out\_GE3/10/4}$% |
| NF-SHT-M-CE03-H3C-CR16010 | GE0/1/1 | ChinaMobile\_SG | NFMPGW06AHW-Gx | GE1/1/2 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/1}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE1/1/2}$% |
| GE0/1/2 | ChinaMobile\_SG | NFMPGW07AHW-Gx | GE1/1/2 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/2}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE1/1/2}$% |
| GE0/1/3 | ChinaMobile\_SG | NFMPCRF02AZX-GX | GE3/9/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/3}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/9/1}$% |
| GE0/1/4 | ChinaMobile\_SG | NFMSPR02AZX-SP | GE3/2/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/4}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/2/1}$% |
| GE0/1/5 | ChinaMobile\_SG | NFMSPR02AZX-SPR | GE3/11/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/11/1}$% |
| GE0/1/6 | ChinaMobile\_SG | NFMPCRF02AZX-SP | GE3/9/2 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/9/2}$% |
| GE1/1/5 | ChinaMobile\_SG | NF-SHT-M-CE05-H3C-CR16010 | GE0/0/6 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE1/1/5}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE0/0/6}$% |
| GE8/1/2 | ChinaMobile\_SG | NFMPCRF03AZX-GX | GE3/9/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE8/1/2}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/9/1}$% |
| GE8/1/3 | ChinaMobile\_SG | NFMPCRF03AZX-GX | GE3/9/2 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE8/1/3}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/9/2}$% |
| GE8/1/4 | ChinaMobile\_SG | NFMSPR03AZX-SP | GE3/5/3 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE8/1/4}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/5/3}$% |
| GE8/1/5 | ChinaMobile\_SG | NFMSPR03AZX-SP | GE3/5/3 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_GE8/1/5}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE3/5/3}$% |
| XGE3/0/2 | ChinaMobile\_SG | NFMPGW06AHW-SGi | GE1/0/4 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_XGE3/0/2}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE1/0/4}$% |
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| XGE3/0/3 | ChinaMobile\_SG | [NFMPGW07AHW-SGi | GE1/0/4 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_XGE3/0/3}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_GE1/0/4}$% |
|
|
| XGE3/0/4 | ChinaMobile\_SG | GDSHT-BA-IPNET-RT03-NE40EX16 | XGE3/0/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_XGE3/0/4}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_XGE3/0/1}$% |
| XGE3/0/1 | ChinaMobile\_SG | NF-SHT-M-CE04-H3C-CR16010 | XGE3/0/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_XGE3/0/1}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_XGE3/0/1}$% |
| XGE6/0/1 | XGE6/0/1 | In: ${NF-SHT-M-CE03-H3C-CR16010\_in\_XGE6/0/1}$% out: ${NF-SHT-M-CE03-H3C-CR16010\_out\_XGE6/0/1}$% |
| NF-SHT-M-CE04-H3C-CR16010 | GE0/1/1 | ChinaMobile\_SG | NFMPGW06AHW-Gx | GE1/1/2 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/1}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE1/1/2}$% |
| GE0/1/2 | ChinaMobile\_SG | NFMPGW07AHW-Gx | GE1/1/2 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/2}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE1/1/2}$% |
| GE0/1/3 | ChinaMobile\_SG | NFMPCRF02AZX-GX | GE3/9/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/3}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/9/1}$% |
| GE0/1/4 | ChinaMobile\_SG | NFMSPR02AZX-SP | GE3/2/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/4}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/2/1}$% |
| GE0/1/5 | ChinaMobile\_SG | NFMSPR02AZX-SPR | GE3/11/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/11/1}$% |
| GE0/1/6 | ChinaMobile\_SG | NFMPCRF02AZX-SP | GE3/9/2 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/9/2}$% |
| GE1/1/5 | ChinaMobile\_SG | NF-SHT-M-CE06-H3C-CR16010 | GE0/0/6 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE1/1/5}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/9/2}$% |
| GE8/1/2 | ChinaMobile\_SG | NFMPCRF03AZX-GX | GE3/9/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE8/1/2}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/9/1}$% |
| GE8/1/3 | ChinaMobile\_SG | NFMPCRF03AZX-GX | GE3/9/2 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE8/1/3}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/9/2}$% |
| GE8/1/4 | ChinaMobile\_SG | NFMSPR03AZX-SP | GE3/5/3 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE8/1/4}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/5/3}$% |
| GE8/1/5 | ChinaMobile\_SG | NFMSPR03AZX-SP | GE3/5/3 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_GE8/1/5}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE3/5/3}$% |
| XGE3/0/2 | ChinaMobile\_SG | NFMPGW06AHW-SGi | GE1/0/4 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_XGE3/0/2}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE1/0/4}$% |
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| XGE3/0/3 | ChinaMobile\_SG | [NFMPGW07AHW-SGi | GE1/0/4 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_XGE3/0/3}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_GE1/0/4}$% |
| XGE3/0/4 | ChinaMobile\_SG | GDSHT-BA-IPNET-RT04-NE40EX16 | XGE3/0/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_XGE3/0/4}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_XGE3/0/1}$% |
| XGE3/0/1 | ChinaMobile\_SG | NF-SHT-M-CE03-H3C-CR16010 | XGE3/0/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_XGE3/0/1}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_XGE3/0/1}$% |
| XGE6/0/1 | XGE6/0/1 | In: ${NF-SHT-M-CE04-H3C-CR16010\_in\_XGE6/0/1}$% out: ${NF-SHT-M-CE04-H3C-CR16010\_out\_XGE6/0/1}$% |
| NF-SHT-M-CE05-H3C-CR16010 | GE0/1/6 | ChinaMobile\_huawuNMS | NF-SHT-M-CE03-H3C-CR16010 | GE1/0/5 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/0/5}$% |
| GE0/1/7 | ChinaMobile\_huawuNMS | NF-SHT-M-CE01-H3C-CR16010 | GE1/0/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/7}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/0/1}$% |
| GE0/1/10 | ChinaMobile\_huawuNMS |  |  | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/10}$% |
| GE0/2/8 | ChinaMobile\_huawuNMS | GDSHT-BA-IPNET-RT03-NE40EX16 | GE2/2/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/8}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE2/2/1}$% |
| GE0/1/1 | ChinaMobile\_huawuNMS | 4A采集机1 |  | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/1}$% |
| GE0/1/2 | ChinaMobile\_huawuNMS | 4A采集机2 |  | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/2}$% |
| GE0/1/3 | ChinaMobile\_huawuNMS | 网管采集机1 |  | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/3}$% |
| GE0/1/4 | ChinaMobile\_huawuNMS | 网管采集机2 |  | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/4}$% |
| GE0/2/2 | ChinaMobile\_huawuNMS | NFMPGW06AHW-OM | GE1/1/0 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/2}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/1/0}$% |
| GE0/2/3 | ChinaMobile\_huawuNMS | NFMPGW07AHW-OM | GE1/1/0 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/3}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/1/0}$% |
| GE0/2/6 | ChinaMobile\_huawuNMS | NFMCG06AHW-OM | GE0/0/4 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/6}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE0/0/4}$% |
| GE0/2/7 | ChinaMobile\_huawuNMS | NFMCG07AHW-OM | GE0/0/4 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/7}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE0/0/4}$% |
| GE0/1/5 | ChinaMobile\_huawuNMS | U2000 | GE1/0/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/0/1}$% |
| GE0/1/20 | ChinaMobile\_huawuNMS | GDST\_YDSCZX\_1B2F\_S5800\_01-OMC | GE1/0/5 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/1/20}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE1/0/5}$% |
| GE0/2/1 | ChinaMobile\_huawuNMS | NF-SHT-M-CE06-H3C-CR16010 | GE0/2/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/1}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE0/2/1}$% |
| GE9/2/1 | GE9/2/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE9/2/1}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE9/2/1}$% |
| GE0/2/4 | ChinaMobile\_huawuNMS | NFMPCRF02AZX-OMC | GE3/1/3 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/4}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/1/3}$% |
| GE0/2/5 | ChinaMobile\_huawuNMS | M-SPR02-webagent | GE3/9/3 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/5}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/9/3}$% |
| GE0/2/9 | ChinaMobile\_huawuNMS | NFMSPR02AZX-OMC | GE3/1/1 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE0/2/9}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/1/1}$% |
| GE9/1/2 | ChinaMobile\_huawuNMS | NFMSPR03AZX-OM | GE3/1/3 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE9/1/2}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/1/3}$% |
| GE9/2/2 | ChinaMobile\_huawuNMS | NFMSPR03AZX-webagent | GE3/9/3 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE9/2/2}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/9/3}$% |
| GE9/2/3 | ChinaMobile\_huawuNMS | NFMPCRF03AZX-OM | GE3/1/3 | In: ${NF-SHT-M-CE05-H3C-CR16010\_in\_GE9/2/3}$% out: ${NF-SHT-M-CE05-H3C-CR16010\_out\_GE3/1/3}$% |
| NF-SHT-M-CE06-H3C-CR16010 | GE0/1/6 | ChinaMobile\_huawuNMS | NF-SHT-M-CE04-H3C-CR16010 | GE1/0/5 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/6}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE1/0/5}$% |
| GE0/1/7 | ChinaMobile\_huawuNMS | NF-SHT-M-CE02-H3C-CR16010 | GE1/0/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/7}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE1/0/1}$% |
| GE0/1/10 | ChinaMobile\_huawuNMS |  |  | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/10}$% |
| GE0/2/8 | ChinaMobile\_huawuNMS | GDSHT-BA-IPNET-RT04-NE40EX16 | GE2/2/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/8}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE2/2/1}$% |
| GE0/1/1 | ChinaMobile\_huawuNMS | 4A采集机1 |  | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/1}$% |
| GE0/1/2 | ChinaMobile\_huawuNMS | 4A采集机2 |  | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/2}$% |
| GE0/1/3 | ChinaMobile\_huawuNMS | 网管采集机1 |  | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/3}$% |
| GE0/1/4 | ChinaMobile\_huawuNMS | 网管采集机2 |  | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/4}$% |
| GE0/2/2 | ChinaMobile\_huawuNMS | NFMPGW06AHW-OM | GE1/1/0 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/2}$% |
| GE0/2/3 | ChinaMobile\_huawuNMS | NFMPGW07AHW-OM | GE1/1/0 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/3}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE1/1/0}$% |
| GE0/2/6 | ChinaMobile\_huawuNMS | NFMCG06AHW-OM | GE0/0/4 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/6}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE0/0/4}$% |
| GE0/2/7 | ChinaMobile\_huawuNMS | NFMCG07AHW-OM | GE0/0/4 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/7}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE0/0/4}$% |
| GE0/1/5 | ChinaMobile\_huawuNMS | U2000 | GE1/0/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/5}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE1/0/1}$% |
| GE0/1/20 | ChinaMobile\_huawuNMS | GDST\_YDSCZX\_1B2F\_S5800\_01-OMC | GE1/0/5 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/1/20}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE1/0/5}$% |
| GE0/2/1 | ChinaMobile\_huawuNMS | NF-SHT-M-CE06-H3C-CR16010 | GE0/2/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/1}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE0/2/1}$% |
| GE9/2/1 | GE9/2/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE9/2/1}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE9/2/1}$% |
| GE0/2/4 | ChinaMobile\_huawuNMS | NFMPCRF02AZX-OMC | GE3/1/3 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/4}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/1/3}$% |
| GE0/2/5 | ChinaMobile\_huawuNMS | M-SPR02-webagent | GE3/9/3 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/5}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/9/3}$% |
| GE0/2/9 | ChinaMobile\_huawuNMS | NFMSPR02AZX-OMC | GE3/1/1 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE0/2/9}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/1/1}$% |
| GE9/1/2 | ChinaMobile\_huawuNMS | NFMSPR03AZX-OM | GE3/1/3 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE9/1/2}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/1/3}$% |
| GE9/2/2 | ChinaMobile\_huawuNMS | NFMSPR03AZX-webagent | GE3/9/3 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE9/2/2}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/9/3}$% |
| GE9/2/3 | ChinaMobile\_huawuNMS | NFMPCRF03AZX-OM | GE3/1/3 | In: ${NF-SHT-M-CE06-H3C-CR16010\_in\_GE9/2/3}$% out: ${NF-SHT-M-CE06-H3C-CR16010\_out\_GE3/1/3}$% |

注：上表只有端口利用率更新，其他地方暂时保持不变。

FW03&04、SW03&04设备端口及利用率如下：

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 设备名称 | 本端端口 | 汇聚&VLAN | 承载业务 | 本端IP地址 | **端口利用率 In  Out** | 对端设备名称 |
| NF-SHT-M-FW03-HW-E8000E | 100GE11/0/0 | Eth-Trunk2 | HRP | 192.168.22.1/30 | ${NF-SHT-M-FW03-HW-E8000E\_in\_100GE11/0/0}$% ${NF-SHT-M-FW03-HW-E8000E\_out\_100GE11/0/0}$% | NF-SHT-M-FW04-HW-E8000E |
| NF-SHT-M-FW03-HW-E8000E | 100GE11/1/0 | Eth-Trunk1 | Gi/Gn | 218.204.251.18/30 | ${NF-SHT-M-FW03-HW-E8000E\_in\_100GE11/1/0}$% ${NF-SHT-M-FW03-HW-E8000E\_out\_100GE11/1/0}$% | GDSHT-PC-CMNET-CR05-NE40E-SJZX |
| NF-SHT-M-FW03-HW-E8000E | 100GE12/0/0 | Eth-Trunk3 | Gi/Gn | 192.168.22.6/30 | ${NF-SHT-M-FW03-HW-E8000E\_in\_100GE12/0/0}$% ${NF-SHT-M-FW03-HW-E8000E\_out\_100GE12/0/0}$% | NF-SHT-M-SW03-HW-S9310X |
| NF-SHT-M-FW04-HW-E8000E | 100GE11/1/0 | Eth-Trunk1 | Gi/Gn | 218.204.251.22/30 | ${NF-SHT-M-FW04-HW-E8000E\_in\_100GE11/1/0}$% ${NF-SHT-M-FW04-HW-E8000E\_out\_100GE11/1/0}$% | GDSHT-PC-CMNET-CR06-NE40E-SJZX |
| NF-SHT-M-FW04-HW-E8000E | 100GE12/0/0 | Eth-Trunk3 | Gi/Gn | 192.168.22.10/30 | ${NF-SHT-M-FW04-HW-E8000E\_in\_100GE12/0/0}$% ${NF-SHT-M-FW04-HW-E8000E\_out\_100GE12/0/0}$% | NF-SHT-M-SW04-HW-S9310X |
| NF-SHT-M-SW03-HW-S9310X | 100GE5/0/0 | Eth-Trunk2 vlan20 30 60 | 20:业务 30 :管理 | 192.168.22.13/30 192.168.22.17/30 | ${NF-SHT-M-SW03-HW-S9310X\_in\_100GE5/0/0}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_100GE5/0/0}$% | NF-SHT-M-SW04-HW-S9310X |
| NF-SHT-M-SW03-HW-S9310X | XGE4/0/5 | Eth-Trunk10 vlan 100 | Gn | 192.168.20.1/30 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet4/0/5}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet4/0/5}$% | NFMPGW06AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE7/0/5 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet7/0/5}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet7/0/5}$% | NFMPGW06AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE4/0/7 | Eth-Trunk20 vlan 200 | Gn | 192.168.20.9/30 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet4/0/7}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet4/0/7}$% | NFMPGW07AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE7/0/7 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet7/0/7}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet7/0/7}$% | NFMPGW07AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE4/0/4 | Eth-Trunk30 vlan 300 | Gi | 192.168.20.17/30 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet4/0/4}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet4/0/4}$% | NFMPGW06AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE7/0/4 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet7/0/4}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet7/0/4}$% | NFMPGW06AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE4/0/6 | Eth-Trunk40 vlan 400 | Gi | 192.168.20.25/30 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet4/0/6}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet4/0/6}$% | NFMPGW07AHW |
| NF-SHT-M-SW03-HW-S9310X | XGE7/0/6 | ${NF-SHT-M-SW03-HW-S9310X\_in\_XGigabitEthernet7/0/6}$% ${NF-SHT-M-SW03-HW-S9310X\_out\_XGigabitEthernet7/0/6}$% | NFMPGW07AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE4/0/5 | Eth-Trunk10 vlan 100 | Gn | 192.168.20.5/30 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet4/0/5}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet4/0/5}$% | NFMPGW06AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE7/0/5 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet7/0/5}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet7/0/5}$% | NFMPGW06AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE4/0/7 | Eth-Trunk20 vlan 200 | Gn | 192.168.20.13/30 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet4/0/7}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet4/0/7}$% | NFMPGW07AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE7/0/7 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet7/0/7}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet7/0/7}$% | NFMPGW07AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE4/0/4 | Eth-Trunk30 vlan 300 | Gi | 192.168.20.21/30 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet4/0/4}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet4/0/4}$% | NFMPGW06AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE7/0/4 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet7/0/4}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet7/0/4}$% | NFMPGW06AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE4/0/6 | Eth-Trunk40 vlan 400 | Gi | 192.168.20.29/30 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet4/0/6}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet4/0/6}$% | NFMPGW07AHW |
| NF-SHT-M-SW04-HW-S9310X | XGE7/0/6 | ${NF-SHT-M-SW04-HW-S9310X\_in\_XGigabitEthernet7/0/6}$% ${NF-SHT-M-SW04-HW-S9310X\_out\_XGigabitEthernet7/0/6}$% | NFMPGW07AHW |

三、地址池利用率

1、超过90%地址池利用率

【结论】${addrPoolConclusion1}$

2、超过80%地址池利用率

【结论】${addrPoolConclusion2}$

3、超过70%地址池利用率

【结论】${addrPoolConclusion3}$

|  |  |  |
| --- | --- | --- |
| ##{addrPoolAvailabilityList}## | | |
| 网元名称 | IP地址池 | IP池地址占用率 (%) |
| ${connectionName}$ | poolName = ${addrPoolName}$ | ${availability}$ |