

### NE20设备从VRP5.1升级到VRP5.3-23138009版本远程升级步骤

#### 一、先确认NP状态:

先收集信息，确认一下所有设备的NP状况，防止出现升级过程中出现由于NP故障导致升级失败的情况。每台NE20都要查看。

确认方法：在efu视图下执行 display np chip all 命令，（如下图）查看有无IllegalMem。如果有Illegal Mem，则需要带NP板赴现场升级。如果没有，则可以远程升级。

```
<LAC>dir
Directory of flash:/

 0  -rw-      37  Nov 07 2007 08:46:59  private-data.txt
 1  -rw-   98776  Nov 06 2007 15:07:24  matnlog.dat
 2  -rw-   194572  Oct 25 2007 16:13:08  sysmon.dat
 3  -rw-    3354  Oct 26 2007 14:05:59  vrpofg.cfg
 4  -rw- 15253180  Oct 26 2007 14:10:38  ne20-vrp5.30-23138009.bin
 5  -rw-   194572  Nov 07 2007 08:47:19  ne20sysmon.dat
 6  -rw-    20028  Oct 11 2007 16:32:41  exception.dat
 7  -rw- 12909780  Oct 26 2007 14:17:36  ne20v200r005c03b260.bin
 8  -rw-     0  Oct 26 2007 11:08:39  patchnpstate.dat

31750 KB total (3737 KB free)
```

#### 二、远程升级步骤:

1. 执行dir命令，查看flash剩余空间大小。

如果剩余空间小于16M，则需要执行<NE20>delete /unreserved 命令删除部分文件。

```
[XJ-KaShi-R-NE20-efu]dis np chip all
Start chip debug ...
---Begin--
Version Identifier Register 0x131          Unknown
Idle Thread Register 0xFFFFFFFF          Total Idle = 32
 31:  0 30:  0 29:  0 28:  0 27:  0 26:  0 25:  0 24:  0
 23:  0 22:  0 21:  0 20:  0 19:  0 18:  0 17:  0 16:  0
 15:  0 14:  0 13:  0 12:  0 11:  0 10:  0 9:  0 8:  0
 7:  0 6:  0 5:  0 4:  0 3:  0 2:  0 1:  0 0: 2372
Interrupt Vector 0 Register 0x40
FQ2
Interrupt Vector 3 Register 0x4
Illegal Mem
Queue Valid Register 0x0
General Data Queue Count Register 0x0
General Control Queue Count Register 0x0
```

- 2.将NE20-VRP5.30-23138009.bin 文件上传到设备flash中。然后上传paf.txt/license.txt。

执行dir查看上传的文件名及大小是否正确。

3. 设置系统的下一次启动文件为 NE20-VRP5.30-23138009.bin。

命令： <NE20>startup system-software

```
[XJ-KaShi-R-NE20-efu]dis np chip all
Start chip debug ...
---Begin--
Version Identifier Register 0x131          Unknown
Idle Thread Register 0xFFFFFFFF          Total Idle = 32
 31:  0 30:  0 29:  0 28:  0 27:  0 26:  0 25:  0 24:  0
 23:  0 22:  0 21:  0 20:  0 19:  0 18:  0 17:  0 16:  0
 15:  0 14:  0 13:  0 12:  0 11:  0 10:  0 9:  0 8:  0
 7:  0 6:  0 5:  0 4:  0 3:  0 2:  0 1:  0 0: 2372
Interrupt Vector 0 Register 0x40
FQ2
Interrupt Vector 3 Register 0x4
Illegal Mem
Queue Valid Register 0x0
General Data Queue Count Register 0x0
General Control Queue Count Register 0x0
```

4.远程升级大bootrom：系统视图下执行命令upgrade bootrom。

```
<LAC>startup system-software NE20-VRP5.30-23138009.bin
Succeeded in setting the software for booting system.
<LAC>display sta
<LAC>display startup
MainBoard:
  Configed startup system software:      flash:/ne20-vrp5.30-23138009.bin
  Startup system software:               flash:/ne20-vrp5.30-23138009.bin
  Next startup system software:          flash:/ne20-vrp5.30-23138009.bin
  Startup saved-configuration file:      flash:/vrpcfg.cfg
  Next startup saved-configuration file:  flash:/vrpcfg.cfg
```

5.确认升级前后的配置是否需要修改。

6.执行reboot命令重启设备。