

MSR系列路由器

通过USB升级Comware版本的方法

关键字: MSR;USB;Comware;

Q: 如何通过USB口使用U盘对Comware版本进行升级?

A:

操作步骤:

- 1、 先将要升级的bin文件拷到U盘中, PC机通过console线与路由器相连。
- 2、 在MSR路由器Comware正常运转的情况下, 插入U盘, 系统会出现如下提示:

```
<MSR>
```

```
%Nov 16 15:31:36:259 2006 MSR VFS/4/LOG:
```

```
uf1: inserted into slot 0.
```

此时说明系统已经能够从U盘读取信息了。

3、 查看当前版本信息和U盘的文件内容

在升级之前我们要确认机器的型号和所升级的版本, 通过display version和dir命令

```
<MSR>display version
```

```
H3C Comware Platform Software
```

```
Comware software, Version 5.20, Beta 1106
```

```
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```

```
H3C MSR30-20 uptime is 0 week, 0 day, 0 hour, 9 minutes
```

```
CPU type: FREESCALE MPC8349 533MHz
```

```
256M bytes DDR SDRAM Memory
```

```
4M bytes Flash Memory
```

```
Pcb Version: 3.0
```

```
Logic Version: 2.0
```

```
Basic BootROM Version: 2.07
```

```
Extend BootROM Version: 2.07
```

```
[SLOT 0]CON (Hardware)3.0, (Driver)1.0, (Cpld)2.0
```

```
[SLOT 0]AUX (Hardware)3.0, (Driver)1.0, (Cpld)2.0
```

```
[SLOT 0]GE0/0 (Hardware)3.0, (Driver)1.0, (Cpld)2.0
```

```
[SLOT 0]GE0/1 (Hardware)3.0, (Driver)1.0, (Cpld)2.0
```

```
[SLOT 1]SIC-1FXS (Hardware)2.2, (Driver)1.10, (Cpld)2.0
```

```
[SLOT 4]DSIC-9FSW (Hardware)3.0, (Driver)1.0, (Cpld)2.0
```

```
[SLOT 5]MIM-2VE1 (Hardware)2.0, (Driver)1.10, (Cpld)1.0
```

查看U盘bin文件信息

```
<MSR>dir uf1:/
```

```
Directory of uf1:/
```

```
0 -rw- 15990356 Oct 13 2006 14:56:46 msr30-cmw520-b1106.bin
```

```
1 -rw- 15812716 Oct 13 2006 14:56:18 msr20-cmw520-b1106.bin
```

```
2 -rw- 16411108 Oct 13 2006 14:57:06 msr50-cmw520-b1106.bin
```

```
255340 KB total (208244 KB free)
```

```
File system type of uf1: FAT16
```

通过以上信息我们确认升级的文件为**msr30-cmw520-b1106.bin**

4、 将要升级的文件从U盘拷到CF卡

使用U盘升级Comware版本只要将新的bin文件拷贝到CF卡中即可, 如下:

```
<MSR>copy uf1:/ msr30-cmw520-b1106.bin cf:/
```

```
Copy uf1:/30main.bin to cf:/ msr30-cmw520-b1106.bin?[Y/N]:y
```

```
%Copy file uf1:/ msr30-cmw520-b1106.bin to cf:/ msr30-cmw520-b1106.bin...Done.
```

copy过程需要一定时间, 大概1~2分钟。

5、 更改启动文件

在没有删除原bin文件时, 系统会默认用原有bin文件启动, 此时需要将启动文件更改为刚刚拷到CF卡中的bin文件。

```
<MSR>boot-loader file cf:/msr30-cmw520-b1106.bin main
```

```
This command will set boot file, Continue? [Y/N]:y
```

```
.....
```

```
The specified file will be used as a main boot file at the next time!
```

执行上述命令后，下次系统启动时将会采用msr30-cmw520-b1106.bin。

6、保存当前配置

升级完毕后，需要经过重启系统才能使用升级后的Comware软件，在重启前最好将当前配置保存一下。

```
<MSR>save
```

```
The current configuration will be written to the device. Are you sure? [Y/N]:y
```

```
Please input the file name(*.cfg)[cf:/config.cfg]
```

```
(To leave the existing filename unchanged, press the enter key):
```

```
cf:/config.cfg exists, overwrite? [Y/N]:y
```

```
Validating file. Please wait...
```

```
Now saving current configuration to the device.
```

```
Saving configuration cf:/config.cfg. Please wait...
```

```
.
```

```
Configuration is saved to cf successfully.
```

7、重启设备

```
<MSR>reboot
```

```
Start to check configuration with next startup configuration file, please wait.....Checking is finished!
```

```
This will reboot device. Continue? [Y/N]:y
```

```
#Nov 16 15:36:22:283 2006 MSR COMMONSY/4/REBOOT:
```

```
Reboot device by command.
```

```
%Nov 16 15:36:26:312 2006 MSR DEV/4/SYSTEM REBOOT:
```

```
System is rebooted by common cause.
```

```
InitDDR
```

```
system start booting.....Version 2.07
```

```
Press CTRL+D to stop auto-boot
```

```
Booting Normal Extend BootRom
```

```
Decompressing...done!
```

```
Ensure the baudrate is set to 9600bps!Starting at 0xa00000...
```

```
*****
```

```
*                                     *  
*   H3C MSR30-20 BOOTROM, Version 2.07   *  
*                                     *
```

```
*****
```

```
Copyright(c) 2004-2006 Hangzhou H3C Technology Co., Ltd.
```

```
Compiled date: Sep 25 2006, 19:58:23
```

```
CPU type      : MPC8349E
```

```
CPU L1 Cache  : 32KB
```

```
CPU Clock Speed : 533MHz
```

```
Memory Type   : DDR SDRAM
```

```
Memory Size    : 256MB
```

```
Memory Speed   : 266MHz
```

```
BootRom Size   : 4096KB
```

```
CPLD Version is 2.00
```

```
HardWare Version is 3.00
```

```
CF Card is Inserted, now is mounting...
```

```
cf:/ - Volume is OK
```

```
Mount CF Card OK!
```

CF Card Size:256MByte

Press Ctrl+B to enter extended boot menu...

The current starting file is main application file--cf:/ msr30-cmw520-b1106.bin!

The main application file is self-decompressing...

Decompressing...done!

System is starting.....

Ensure the baudrate is set to 9600bps!

Starting at 0x10000...

从启动信息中可以发现，当前的启动文件为升级后的文件msr30-cmw520-b1106.bin

8、删除原bin文件

升级完成后，如果原来老版本的Comware软件已不再需要，则可以将其删除，以释放CF卡的空间。先看一下CF卡中的文件，确定要删除的文件。

<MSR>dir

Directory of cf:/

```
0 drw-   - Sep 03 2006 10:24:54 logfile
1 -rw- 15990356 Nov 16 2006 15:07:48 main.bin
2 -rw-   1574 Nov 16 2006 15:36:06 config.cfg
3 -rw- 15990356 Nov 16 2006 15:33:54 msr30-cmw520-b1106.bin
```

252344 KB total (205112 KB free)

File system type of cf: FAT16

可以看到原来的main.bin文件还在CF卡中，通过delete命令可以将其删除

<MSR>delete cf:/main.bin

Delete cf:/main.bin?[Y/N]:y

%Delete file cf:/main.bin...Done.

<MSR>dir

Directory of cf:/

```
0 drw-   - Sep 03 2006 10:24:54 logfile
1 -rw-   1574 Nov 16 2006 15:36:06 config.cfg
2 -rw- 15990356 Nov 16 2006 15:33:54 msr30-cmw520-b1106.bin
```

252344 KB total (205112 KB free)

File system type of cf: FAT16

删除后可以看到main.bin文件已经不存在了。

【提示】

- 1、 Bootrom与VRP捆绑升级，即升级VRP的同时Bootrom也升级了；
- 2、 目前MSR设备的USB 0口 和USB 1口都可以识别普通U盘；
- 3、 注意CF卡是否有足够容量，在升级之前可以将CF卡中不用的文件删除，确保有足够的空间存放要升级的bin文件；
- 4、 要确保U盘不被病毒感染。