

# 知 SR88-X-S备用主控板在bootware降级时Flash空间不足问题处理

软件升级 CR98K 2019-04-12 发表

## 组网及说明

不涉及

## 问题描述

客户现场SR88-X-S更换备用主控，由于备用主控版本为R7751P01，主用主控版本为R7353P03，备用主控使用时需要给备用主控降级。

由于两者版本差距较大，不能通过自动同步的方式降级，只能通过bootware的方式降级

```
=====<File CONTROL>=====
|Note:the operating device is flash
|<1> Display All File(s)
|<2> Set Image File type
|<3> Set Bin File type
|<4> Delete File
|<5> Copy File
|<0> Exit To Main Menu
=====
```

Enter your choice(0-5): 1

```
Display all file(s) in flash:
'M' = MAIN      'B' = BACKUP      'N/A' = NOT ASSIGNED
=====
|NO. Size(B)   Time                Type   Name
|1   817      Aug/09/2018 02:07:54 N/A   flash:/license/210231A2SHB15A000
|066.did
|2   16       Aug/09/2018 02:08:25 N/A   flash:/versionInfo/versionCtl.da
|t
|3   796      Aug/09/2018 02:08:25 N/A   flash:/versionInfo/version0.dat
=====
```

但是把R7353P03.ipe文件导入后

```
=====<Enter Ethernet SubMenu>=====
|Note:the operating device is flash
|<1> Download Image Program To SDRAM And Run
|<2> Update Main Image File
|<3> Update Backup Image File
|<4> Download Files (*.*)
|<5> Modify Ethernet Parameter
|<0> Exit To Main Menu
|<Ensure The Parameter Be Modified Before Downloading!>
=====
```

Enter your choice(0-5): 5

```
=====<ETHERNET PARAMETER SET>=====
|Note:      '.' = Clear field.
|           '-' = Go to previous field.
|           Ctrl+D = Quit.
=====
Protocol (FTP or TFTP) :tftp
Load File Name       :SR8800-CMW710-R7353P03.ipe
Target File Name     :SR8800-CMW710-R7353P03.ipe
Server IP Address    :192.168.1.2
Local IP Address     :192.168.1.1
Subnet Mask          :0.0.0.0
Gateway IP Address   :0.0.0.0
```

再选择<2>Update Main Image File时，加载到最后会显示空间不足导致降级失败

```
.....
.....Done.
296401920 bytes downloaded!
The space is not enough
Fail
```

## 过程分析

因默认的flash空间相对比较小，在进行版本降级时如遇到flash空间不足的情况，通常可以通过彻底删除原有版本文件，释放空间解决；如果主控带有CF卡，也可以通过在extended-bootware menu界面，选择<9>Storage Device Operation，再选择<3> Set The Default Boot Device 将存储介质从flash改成cf卡，由于cf卡存储容量一般比flash大很多，可通过更改到CF卡，解决存储空间不足问题。

```
===== <EXTENDED-BOOTWARE MENU> =====
|<1> Boot System |
|<2> Enter Serial SubMenu |
|<3> Enter Ethernet SubMenu |
|<4> File Control |
|<5> Restore to Factory Default Configuration |
|<6> Skip Current System Configuration |
|<7> BootWare Operation Menu |
|<8> Skip Authentication for Console Login |
|<9> Storage Device Operation |
|<0> Reboot |
=====
Ctrl+Z: Access EXTENDED ASSISTANT MENU
Ctrl+C: Display Copyright
Ctrl+F: Format File System
```

#### 解决方法

本案例通过在extended-bootware menu界面，将存储介质从flash改成cf卡解决了默认存储空间不足的问题。