# 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

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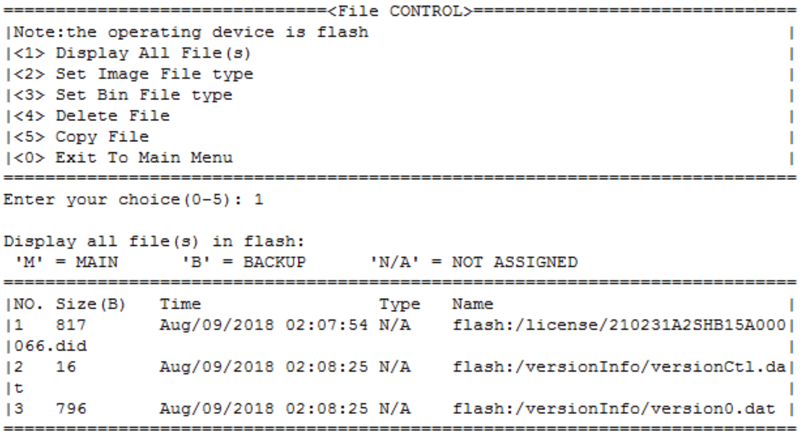
## 问题描述

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。

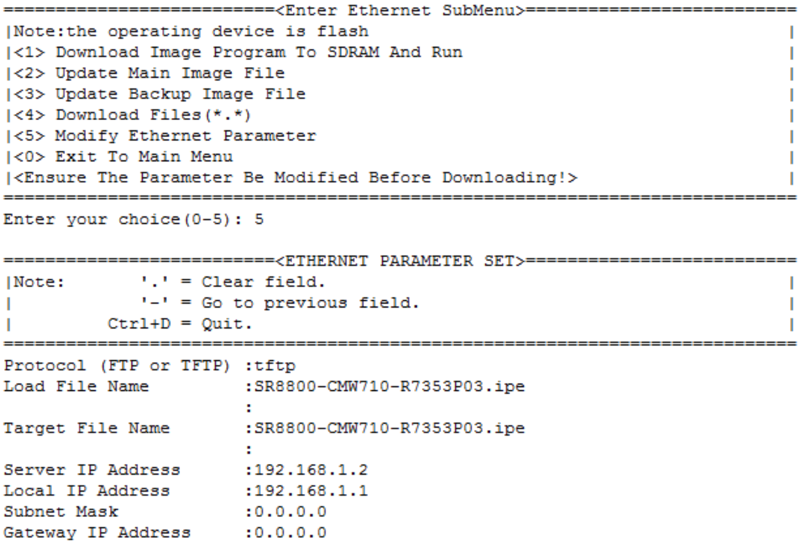
由于两者版本差距较大，不能通过自动同步的方式降级，只能通过bootware的方式降级



```
===============================<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.

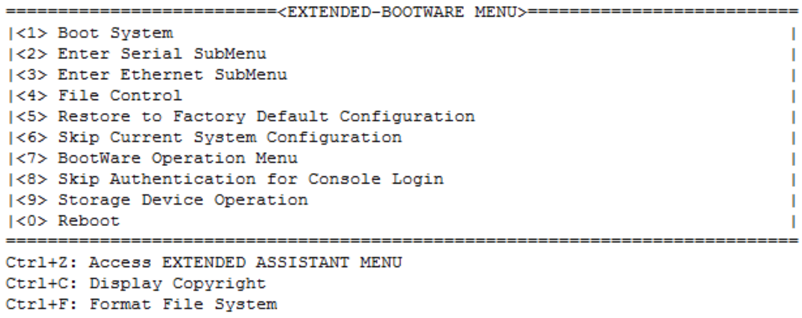
296401920 bytes downloaded!

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。