

# MSR2600-XX-X1/3610-X1系列路由器命令行界面升级方法

软件升级/降级

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## 组网及说明

### 1 配置需求或说明

#### 1.1 适用的产品系列

本案例适用于如2600-6-X1、MSR2600-10-X1、MSR3600-28-X1、MSR3600-28-X1-DP等MSR2600-XX-X1、3610-X1系列的路由器。

注：本案例是在MSR26-30上进行升级到Release 0615P11的版本。

#### 1.2 配置需求及实现的效果

根据现场实际需求，需要将路由器进行升级到新版本。

注：升级过程中不要中途对设备断电！！

### 2 组网图

无

## 配置步骤

### 3 升级步骤

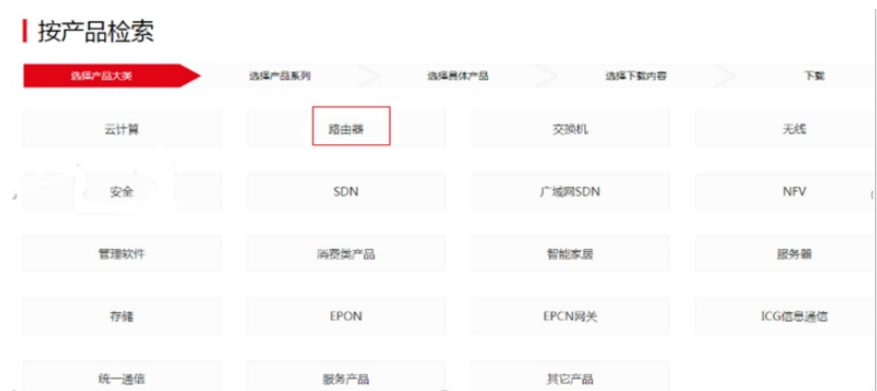
#### 3.1 升级准备

##### 3.1.1 下载需要的版本（请根据自己的型号准确下载版本）

#登陆www.h3c.com.cn后点击“产品支持与服务”>>“软件下载”



#选择“按产品检索”下的“路由器”



#根据型号选择

|                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H3C MSR 系列路由器                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>MSV 50 路由器</li> <li>MSR 3600SI 路由器</li> <li>MSR 3620-DP-WiNet路由器</li> <li>MSR3600-28-WiNet路由器</li> <li>H3C MSR 3600-51F路由器</li> <li>MSR 5620[60][80]路由器</li> <li>MSR 3600-28[51]路由器</li> <li>MSR 2600-10[17][Winet]路由器</li> </ul> | <ul style="list-style-type: none"> <li>MSR3610-X1 路由器</li> <li>MSR2600-6-X1路由器</li> <li>MSR3610-X1-WiNet路由器</li> <li>H3C MSR 2600-10-X1路由器</li> <li>MSR2600-10-X1-WiNet</li> <li>MSR 36-10[20][20-DP][40][60][Winet]路由器</li> <li>MSR 2630[Winet]路由器</li> <li>MSR 2600-CNDE路由器</li> </ul> |

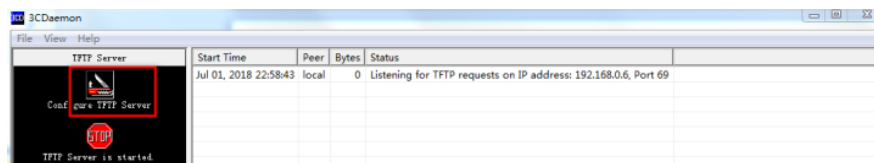
#本案例制作时，已获取MSR26-30的Release 0615P11版本文件

### 3.1.2 命令行登陆设备并将文件上传至设备flash

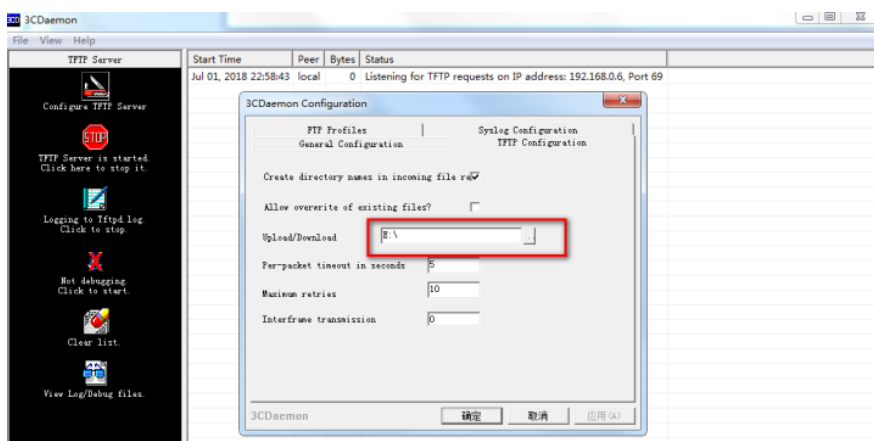


3CDaemon.rar

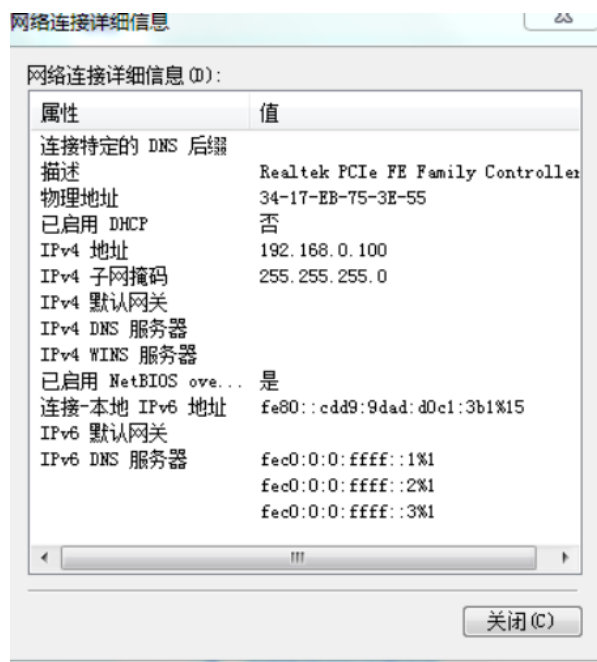
#本案例使用3CD软件，选择TFTP方式上传版本文件（电脑防火墙注意关闭）



#选择您需要导入的文件MSR26-CMW710-R0615P11.ipe文件的路径



#在设备出厂前，管理口0口的IP地址为192.168.0.1/24。可将电脑直连此接口上，并设置相同网段的IP地址。（本案例电脑直连G0接口，实际组网中也可以使用别的接口，只要确保设备与文件服务器路由可达。）



```
C:\Users\Administrator>ping 192.168.0.1

正在 Ping 192.168.0.1 具有 32 字节的数据:
来自 192.168.0.1 的回复: 字节=32 时间<1ms TTL=255
来自 192.168.0.1 的回复: 字节=32 时间<1ms TTL=255
来自 192.168.0.1 的回复: 字节=32 时间<1ms TTL=255
来自 192.168.0.1 的回复: 字节=32 时间<1ms TTL=255

192.168.0.1 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 0ms, 最长 = 0ms, 平均 = 0ms

C:\Users\Administrator>
```

#在命令行配置界面的任意视图下，执行save命令保存设备当前配置信息：

```
<H3C>save force
```

#在命令行配置界面的用户视图下，执行dir命令查看设备当前的文件系统，确认启动文件及配置文件名，以及Flash的剩余空间，保证Flash有足够空间放入新的启动文件

```
<H3C>dir //查看空余空间够不够，空余空间要大于.IPE文件大小
```

```
<H3C>dir
Directory of flash:
 0 -rw-      222973 Sep 25 2018 21:30:12 bendi.zip
 1 -rw-      1258 Apr 16 2017 17:02:06 ca.cer
 2 drw-          - Feb 24 2016 02:17:52 diagfile
 3 drw-          - Nov 27 2017 19:38:14 dpi
 4 -rw-       567 Sep 04 2016 19:07:05 dsakey
 5 -rw-       735 Mar 31 2017 14:45:54 hostkey
 6 -rw-        99 Sep 18 2018 21:52:52 ifindex.dat
 7 -rw-      3633 Feb 20 2017 13:55:42 l2tpoveripsec.cfg
 8 -rw-     73193 Feb 20 2017 13:55:43 l2tpoveripsec.mdb
 9 -rw-       243 Sep 25 2018 21:32:40 lauth.dat
10 drw-          - Feb 24 2016 02:17:54 license
11 -rw-     2324 Apr 16 2017 17:02:19 local.pfx
12 drw-          - Jul 09 2016 08:51:00 logfile
13 -rw-     542208 Sep 25 2018 21:28:26 msr26-cmw710-boot-r0615p10.bin
14 -rw-     542720 Sep 19 2018 21:24:34 msr26-cmw710-boot-r0615p11.bin
15 -rw-     3148800 Sep 25 2018 21:28:59 msr26-cmw710-data-r0615p10.bin
16 -rw-     3148800 Sep 19 2018 21:25:08 msr26-cmw710-data-r0615p11.bin
17 -rw-     513024 Sep 25 2018 21:28:57 msr26-cmw710-security-r0615p10.bin
18 -rw-     513024 Sep 19 2018 21:25:05 msr26-cmw710-security-r0615p11.bin
19 -rw-     60255232 Sep 25 2018 21:28:57 msr26-cmw710-system-r0615p10.bin
20 -rw-     60352512 Sep 19 2018 21:25:04 msr26-cmw710-system-r0615p11.bin
21 -rw-     1100800 Sep 25 2018 21:28:57 msr26-cmw710-voice-r0615p10.bin
22 -rw-     1100800 Sep 19 2018 21:25:06 msr26-cmw710-voice-r0615p11.bin
23 drw-          - Apr 16 2017 17:05:33 pkey
24 drw-          - Apr 17 2017 14:03:36 pki
25 drw-          - Aug 24 2017 22:07:10 portal
26 drw-          - Feb 24 2016 02:17:52 seclog
27 -rw-       591 Mar 31 2017 14:45:55 serverkey
28 -rw-      2443 Sep 18 2018 21:52:53 startup.cfg
29 -rw-     60198 Sep 18 2018 21:52:53 startup.mdb
30 -rw-      72830 Sep 25 2018 21:30:12 weixin.zip

262144 KB total (252612 KB free)
```

#在命令行配置界面的用户视图下，执行tftp get命令将启动文件MSR26-CMW710-R0615P11.ipe导入到设备的Flash中：

```
<H3C>tftp 192.168.0.100 get MSR26-CMW710-R0615P11.ipe
```

```
<H3C>tftp 192.168.0.100 get MSR26-CMW710-R0615P11.IPE
Press CTRL+C to abort.
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload    Total   Spent    Left   Speed
 27 67.2M    27 18.3M    0     0  483k      0  0:02:22  0:00:38  0:01:44  491k |
100 67.2M   100 67.2M    0     0  492k      0  0:02:20  0:02:20  --:--:--  497k
Writing file...Done.
```

#查看flash里面有没有导入文件：

```

<H3C>dir
Directory of flash:
 0 -rw- 70550528 Sep 25 2018 21:44:21 MSR26-CMW710-R0615P11.IPE
 1 -rw- 222973 Sep 25 2018 21:30:12 bendi.zip
 2 -rw- 1258 Apr 16 2017 17:02:06 ca.cer
 3 drw- - Feb 24 2016 02:17:52 diagfile
 4 drw- - Nov 27 2017 19:38:14 dpi
 5 -rw- 567 Sep 04 2016 19:07:05 dsakey
 6 -rw- 735 Mar 31 2017 14:45:54 hostkey
 7 -rw- 99 Sep 18 2018 21:52:52 ifindex.dat
 8 -rw- 3633 Feb 20 2017 13:55:42 l2tpoveripsec.cfg
 9 -rw- 73193 Feb 20 2017 13:55:43 l2tpoveripsec.mdb
10 -rw- 243 Sep 25 2018 21:32:40 lauth.dat
11 drw- - Feb 24 2016 02:17:54 license
12 -rw- 2324 Apr 16 2017 17:02:19 local.pfx
13 drw- - Jul 09 2016 08:51:00 logfile
14 -rw- 5422080 Sep 25 2018 21:28:26 msr26-cmw710-boot-r0615p10.bin
15 -rw- 5427200 Sep 19 2018 21:24:34 msr26-cmw710-boot-r0615p11.bin
16 -rw- 3148800 Sep 25 2018 21:28:59 msr26-cmw710-data-r0615p10.bin
17 -rw- 3148800 Sep 19 2018 21:25:08 msr26-cmw710-data-r0615p11.bin
18 -rw- 513024 Sep 25 2018 21:28:57 msr26-cmw710-security-r0615p10.bin
19 -rw- 513024 Sep 19 2018 21:25:05 msr26-cmw710-security-r0615p11.bin
20 -rw- 60255232 Sep 25 2018 21:28:57 msr26-cmw710-system-r0615p10.bin
21 -rw- 60352512 Sep 19 2018 21:25:04 msr26-cmw710-system-r0615p11.bin
22 -rw- 1100800 Sep 25 2018 21:28:57 msr26-cmw710-voice-r0615p10.bin
23 -rw- 1100800 Sep 19 2018 21:25:06 msr26-cmw710-voice-r0615p11.bin
24 drw- - Apr 16 2017 17:05:33 pkey
25 drw- - Apr 17 2017 14:03:36 pki
26 drw- - Aug 24 2017 22:07:10 portal
27 drw- - Feb 24 2016 02:17:52 seclog
28 -rw- 591 Mar 31 2017 14:45:55 serverkey
29 -rw- 2443 Sep 18 2018 21:52:53 startup.cfg
30 -rw- 60198 Sep 18 2018 21:52:53 startup.mdb
31 -rw- 72830 Sep 25 2018 21:30:12 weixin.zip

262144 KB total (52612 KB free)

```

### 3.2 指定新版本文件作为下次启动文件

#在命令行配置界面的用户视图下，执行boot-loader命令设置设备下次启动使用的启动文件为MSR26-CMW710-R0615P11.ipe，并指定启动文件类型为main：

```
<H3C>boot-loader file flash:/MSR26-CMW710-R0615P11.ipe main
```

```

<H3C>boot-loader file flash:/MSR26-CMW710-R0615P11.IPE main
Verifying the file flash:/MSR26-CMW710-R0615P11.IPE on the device....Done.
H3C MSR26-30 images in IPE:
msr26-cmw710-boot-r0615p11.bin
msr26-cmw710-system-r0615p11.bin
msr26-cmw710-security-r0615p11.bin
msr26-cmw710-voice-r0615p11.bin
msr26-cmw710-data-r0615p11.bin
This command will set the main startup software images. Please do not reboot the device during the upgrade. Continue? [Y/N]:y
Add images to the device.
Decompressing file msr26-cmw710-boot-r0615p11.bin to flash:/msr26-cmw710-boot-r0615p11.bin...Done.
Decompressing file msr26-cmw710-system-r0615p11.bin to flash:/msr26-cmw710-system-r0615p11.bin...Done.
Decompressing file msr26-cmw710-security-r0615p11.bin to flash:/msr26-cmw710-security-r0615p11.bin...Done.
Decompressing file msr26-cmw710-voice-r0615p11.bin to flash:/msr26-cmw710-voice-r0615p11.bin...Done.
Decompressing file msr26-cmw710-data-r0615p11.bin to flash:/msr26-cmw710-data-r0615p11.bin...Done.
No license available for flash:/msr26-cmw710-security-r0615p11.bin.
No license available for flash:/msr26-cmw710-voice-r0615p11.bin.
No license available for flash:/msr26-cmw710-data-r0615p11.bin.
License-based images that lack a license cannot be used.
Verifying the file flash:/msr26-cmw710-boot-r0615p11.bin on the device...Done.
Verifying the file flash:/msr26-cmw710-system-r0615p11.bin on the device...Done.
The images that have passed all examinations will be used as the main startup software images at the next reboot on the device.
Decompression completed.
You are recommended to delete the .ipe file after you set startup software images for all slots.
Do you want to delete flash:/MSR26-CMW710-R0615P11.IPE now? [Y/N]:n
<H3C>

```

### 3.3 重启设备完成升级

```

<H3C>reboot
Start to check configuration with next startup configuration file, please wait.....DONE!
Current configuration may be lost after the reboot, save current configuration? [Y/N]:y
Please input the file name(*.cfg)[flash:/startup.cfg]
(To leave the existing filename unchanged, press the enter key):
flash:/startup.cfg exists, overwrite? [Y/N]:y
Validating file. Please wait...
Saved the current configuration to mainboard device successfully.
This command will reboot the device. Continue? [Y/N]:y
Now rebooting, please wait...

```

### 3.4 查看与验证

#使用dis version查看版本，已经升级到我们下载的版本号即为成功，升级完成。

```
<H3C>display version
H3C Comware Software, Version 7.1.064, Release 0615P11
Copyright (c) 2004-2018 New H3C Technologies Co., Ltd. All rights reserved.
H3C MSR26-30 uptime is 0 weeks, 0 days, 0 hours, 1 minute
Last reboot reason : User reboot
Boot image: flash:/msr26-cmw710-boot-r0615p11.bin
Boot image version: 7.1.064P63, Release 0615P11
  Compiled May 14 2018 16:00:00
System image: flash:/msr26-cmw710-system-r0615p11.bin
System image version: 7.1.064, Release 0615P11
  Compiled May 14 2018 16:00:00

CPU ID: 0x1
1G bytes DDR3 SDRAM Memory
2M bytes Flash Memory
PCB          Version: 3.0
CPLD         Version: 2.0
Basic  BootWare Version: 1.70
Extended BootWare Version: 1.70
[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 0]CELLULAR0/0        (Hardware)3.0,  (Driver)1.0,  (CPLD)2.0

<H3C>
```

配置关键点