软件升级 陈铮 2015-06-11 发表

无线控制器ComwareV5版本升级V7
不涉及
将Comware V5上当前运行的配置保存至设备存储。
save
The current configuration will be written to the device. Are you sure? [Y/N]:y
Please input the file name(*.cfg)[cfa0:/startup.cfg]
(To leave the existing filename unchanged, press the enter key):
cfa0:/startup.cfg exists, overwrite? [Y/N]:y
Validating file. Please wait
Saved the current configuration to mainboard device successfully.
将配置文件备份到PC(IP地址:192.168.100.14)上。注意V5升级V7配置需要参考配置和命令手册先 翻译。
tftp 192.168.100.14 put startup.cfg
File will be transferred in binary mode
Sending file to remote TFTP server. Please wait \
TFTP: 1914 bytes sent in 0 second(s).
File uploaded successfully.
重启设备,当出现"Press Ctrl+B to enter extended boot menu"时,键入,进入Comware V5 BootWa re菜单。
System is starting
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extend BootWare
The Extend BootWare is self-decompressing
Done!

* *
* H3C WCMD BootWare, Version 2.04 *
* *

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Compiled Date : Nov 19 2014

CPU Type : XLR732 CPU L1 Cache : 32KB CPU Clock Speed : 950MHz Memory Type : DDR2 SDRAM Memory Size : 2048MB Memory Speed : 533MHz BootWare Size : 512KB Flash Size : 4MB cfa0 Size : 1047MB CPLD Version : 005 PCB Version : Ver.B

BootWare Validating...

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

BootWare password: Not required. Please press Enter to continue.

Password recovery capability is enabled. Note: The current operating device is cfa0

		:
<1> Boot System	I	
<2> Enter Serial SubMenu	I	
<3> Enter Ethernet SubMenu	I	
<4> File Control		
<5> Restore to Factory Default Configuration		
<6> Skip Current System Configuration	Í	
<7> BootWare Operation Menu		
<8> Clear Super Password		
<9> Storage Device Operation	I	
<pre> <0> Reboot</pre>		
Ctrl+Z: Access EXTEND-ASSISTANT MENU		
Ctrl+F: Format File System		
Enter your choice(0-9):		
按Ctrl+F完成存储介质的格式化		
Warning:All files on cfa0 will be lost! Are you sure to format	? [Y/N]Y	
Format success.		
完成存储介质的格式化之后,重新进入Bootware主菜单:		
		:
<1> Boot System	I	
<pre> <2> Enter Serial SubMenu</pre>		
<3> Enter Ethernet SubMenu	I	
<4> File Control		
<5> Restore to Factory Default Configuration		
<6> Skip Current System Configuration		
<7> BootWare Operation Menu		
<8> Clear Super Password		
<9> Storage Device Operation		
<0> Reboot		
Ctrl+Z: Access EXTEND-ASSISTANT MENU		
Ctrl+F: Format File System		
Enter your choice(0-9): 3		
在BootWare主菜单下选择<3>可以进入以太网操作子菜单:		
Note:the operating device is cfa0		
<1> Download Application Program To SDRAM And Run		
<2> Update Main Application File		
<3> Update Backup Application File		
<4> Update Secure Application File		
<5> Modify Ethernet Parameter		
<pre> <0> Exit To Main Menu</pre>		
Enter your choice(0-4): 5		
在以太网操作子菜单选择<5>,进入以太网口配置菜单:		
Note: '.' = Clear field.		
'-' = Go to previous field.		
Ctrl+D = Quit.		
Protocol (FTP or TFTP) :tftp		
Load File Name :host		
:UWWM20-BootWareUpdate-V001.bin		

:UWWM20-BootWareUpdate-V001.bin Server IP Address :192.168.100.14 Local IP Address :192.168.100.122 Gateway IP Address :0.0.0.0 255.255.255.0 选择<1>, 下载Comware V7版本BootWare文件。 _____ Note: the operating device is cfa0 |<1> Download Application Program To SDRAM And Run 1 |<2> Update Main Application File |<3> Update Backup Application File |<4> Update Secure Application File |<5> Modify Ethernet Parameter |<0> Exit To Main Menu L _____ Enter your choice(0-4): 1 Loading.....Done! 374784 bytes downloaded! Extend BootWare Version is not equal, updating? [Y/N]Y Updating Extend BootWare...Done! BootWare updated,System is rebooting now. BootWare版本更新后将自动重启。 设备重启后直接进入Comware V7 BootWare主菜单。 System is starting ... Press Ctrl+D to access BASIC-BOOTWARE MENU ... Booting Normal Extended BootWare The Extended BootWare is self-decompressing......Done. H3C UWWM20 BootWare, Version 3.03 Copyright (c) 2010-2014 Hewlett-Packard Development Company, L.P. Compiled Date : Nov 25 2014 CPU Type : XLR732 CPU L1 Cache : 32KB CPU Clock Speed : 950MHz Memory Type : DDR2 SDRAM Memory Size : 2048MB Memory Speed : 533MHz BootWare Size : 512KB Flash Size : 4MB cfa0 Size : 999MB CPLD Version : 005 PCB Version : Ver.B Use default net params. BootWare Validating...

Backup Basic BootWare not exist Begin to Update the Backup Basic BootWare......Done. Normal Extended BootWare Version is newer than Backup Extended BootWare! Begin to Update the Backup Extended BootWare.....Done. Image program does not exist.

Password recovery capability is enabled. Note: The current operating device is cfa0

<pre> <1> Boot System</pre>	I
<2> Enter Serial SubMenu	
<3> Enter Ethernet SubMenu	I
<4> File Control	
<5> Restore to Factory Default Configuration	I
<6> Skip Current System Configuration	I
<7> BootWare Operation Menu	
<8> Skip Authentication for Console Login	
<9> Storage Device Operation	I
<0> Reboot	I
Ctrl. E. Format Filo System	
Enter your choice (0, 0): 2	
Enter your choice(0-9). 3 在PootMars主義的支援 2.2. 可以出入以上网口乙菜的	
在DOOLWARE主来半下雄八<3>可以近八以太网口于来半	,然后键入<3>就可以进入以太网口的直米甲
Note: the operating device is cfa0	
I<1> Download Image Program To SDRAM And Run	
<2> Update Main Image File	I .
<3> Update Backup Image File	
<pre> <4> Download Files(*.*)</pre>	
<pre><5> Modify Ethernet Parameter</pre>	
<0> Exit To Main Menu	I
Enter your choice(0-5): 5	
Note: '.' = Clear field.	I
'-' = Go to previous field.	1
Ctrl+D = Quit.	
Protocol (FTP or TFTP) :tftp	
Load File Name :host	
:UWWM20.ipe	
Target File Name :target	
:UWWM20.ipe	
Server IP Address :192.168.100 14	
Local IP Address :192.168.100 122	
Subnet Mask 0.0.0.0.255 255 255 0	
Gateway IP Address 0 0 0 0	
键入<2>, 下载Comware V7启动文件:	
Note:the operating device is cfa0	
<1> Download Image Program To SDRAM And Run	I
<2> Update Main Image File	I
<3> Update Backup Image File	I
<pre> <4> Download Files(*.*)</pre>	I
<5> Modify Ethernet Parameter	I
<0> Exit To Main Menu	I
1 1	
Enter your choice(0-5): 2	
Luduii iy	

.....

Done.	
90542080 bytes downloaded!	
Image file UWWM20-cmw710-boot-a5201p03.bin is self-d	ecompressing
Saving file cfa0:/UWWM20-cmw710-boot-a5201p03.bin	
Done.	
Image file UWWM20-cmw710-system-a5201p03.bin is sel Saving file cfa0:/UWWM20-cmw710-system-a5201p03.bin	f-decompressing
Dono	
Done.	
INote the operating device is of a	
Interine operating device is clad	1
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Cos opuale backup image rile	
1<5> Modify Ethornot Paramotor	
I I	
Foter your choice(0-5): 0	
 Enter your choice(0-5): 0 选择<0>, 返回BootWare主菜单,选择<1>,引导系统, 完	======================================
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 Enter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 ====================================	======== 5成升级。 =======
I I I Enter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 	========= 3成升级。 ======== 」
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Inter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 I<1> Boot System I<2> Enter Serial SubMenu I<3> Enter Ethernet SubMenu I<4> File Control I<5> Restore to Factory Default Configuration I<6> Skip Current System Configuration I<7> BootWare Operation Menu I<8> Clear Super Password I<9> Storage Device Operation I<0> Reboot I Ctrl+Z: Access EXTENDED ASSISTANT MENU Ctrl+F: Format File System Enter your choice(0-9): 1 Loading the main image files Loading file cfa0:/UWWM20-cmw710-system-a5201p03.b	s成升级。
Inter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 I<1> Boot System I<2> Enter Serial SubMenu I<3> Enter Ethernet SubMenu I<4> File Control I<5> Restore to Factory Default Configuration I<6> Skip Current System Configuration I<7> BootWare Operation Menu I<8> Clear Super Password I<9> Storage Device Operation I<0> Reboot Ctrl+Z: Access EXTENDED ASSISTANT MENU Ctrl+F: Format File System Enter your choice(0-9): 1 Loading the main image files Loading file cfa0:/UWWM20-cmw710-system-a5201p03.b	S成升级。
Inter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 I<1> Boot System I<2> Enter Serial SubMenu I<3> Enter Ethernet SubMenu I<4> File Control I<5> Restore to Factory Default Configuration I<6> Skip Current System Configuration I<7> BootWare Operation Menu I<8> Clear Super Password I<9> Storage Device Operation I<0> Reboot Ctrl+F: Format File System Enter your choice(0-9): 1 Loading the main image files Loading file cfa0:/UWWM20-cmw710-system-a5201p03.b	S成升级。
I I I I I I I I I I I I I I I I I I I	s成升级。
Inter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 I<1> Boot System I<2> Enter Serial SubMenu I<3> Enter Ethernet SubMenu I<4> File Control I<5> Restore to Factory Default Configuration I<6> Skip Current System Configuration I<7> BootWare Operation Menu I<8> Clear Super Password I<9> Storage Device Operation I<0> Reboot I I Ctrl+Z: Access EXTENDED ASSISTANT MENU Ctrl+F: Format File System Enter your choice(0-9): 1 Loading the main image files Loading file cfa0:/UWWM20-cmw710-system-a5201p03.b I I Done. Loading file cfa0:/UWWM20-cmw710-boot-a5201p03.bin	S成升级。
Inter your choice(0-5): 0 选择<0>, 返回BootWare主菜单。选择<1>, 引导系统, 完 I<1> Boot System I<2> Enter Serial SubMenu I<3> Enter Ethernet SubMenu I<4> File Control I<5> Restore to Factory Default Configuration I<6> Skip Current System Configuration I<7> BootWare Operation Menu I<8> Clear Super Password I<9> Storage Device Operation I<0> Reboot I Ctrl+F: Format File System Enter your choice(0-9): 1 Loading the main image files Loading file cfa0:/UWWM20-cmw710-system-a5201p03.bin 	S成升级。

.....Done.

Image file cfa0:/UWWM20-cmw710-boot-a5201p03.bin is self-decompressing.....

.....

.....

......Done.

System image is starting...

Cryptographic Algorithms Known-Answer Tests are running ... CPU 0 of slot 1 in chassis 0:

Starting Known-Answer tests in the user space.

Known-answer test for SHA1 passed.

Known-answer test for SHA224 passed.

Known-answer test for SHA256 passed.

Known-answer test for SHA384 passed.

Known-answer test for SHA512 passed.

Known-answer test for HMAC-SHA1 passed.

Known-answer test for HMAC-SHA224 passed.

Known-answer test for HMAC-SHA256 passed.

Known-answer test for HMAC-SHA384 passed.

Known-answer test for HMAC-SHA512 passed.

Known-answer test for AES passed.

Known-answer test for RSA(signature/verification) passed.

Known-answer test for RSA(encrypt/decrypt) passed.

Known-answer test for DSA(signature/verification) passed.

Known-answer test for random number generator passed.

Known-Answer tests in the user space passed.

Starting Known-Answer tests in the kernel.

Known-answer test for SHA1 passed.

Known-answer test for HMAC-SHA1 passed.

Known-answer test for AES passed.

Known-answer test for random number generator passed.

Known-Answer tests in the kernel passed.

Cryptographic Algorithms Known-Answer Tests passed.

Startup configuration file does not exist. Performing automatic configuration... Press CTRL_C or CTRL_D to break.

Automatic configuration attempt: 1. Interface used: M-GigabitEthernet0/0/0. Enable DHCP client on M-GigabitEthernet0/0/0. Automatic configuration is aborted. Line con0 is available.

Press ENTER to get started. 设备启动后,使display version命令查看设备版本,显示如下类似信息表示升级成功: display version H3C Comware Software, Copyright (c) 2010-2014 Hewlett-Packard Development Company, L.P. UWWM20 uptime is 0 weeks, 0 days, 0 hours, 1 minutes Last reboot reason : User soft reboot

Boot image: cfa0:/UWWM20-cmw710-boot-a5201p03.bin Boot image version: 7.1.061, Compiled Nov 26 2014 09:38:00 System image: cfa0:/UWWM20-cmw710-system-a5201p03.bin System image version: 7.1.061, Compiled Nov 26 2014 09:38:00 with 1 RMI XLR732 950MHz Processor 2048M bytes DDR2 8M bytes NorFlash Memory 999M bytes CFCard Memory

Hardware Version is Ver.b

FPGA Hardware Version is Ver.a CPLD Version is 005

FPGA Logic Version is 319

Basic Bootrom Version is 3.03

Extend Bootrom Version is 3.03

[Subslot 0]LSU3WCMD0 Hardware Version is Ver.b

Comware V5的软件包只有一个".bin"文件,但是Comware V7的软件包包括两个".bin"文件和 一个".ipe"文件:

 Boot程序(.bin文件):包含了Linux操作系统的内核,可以提供进程管理、 内存管理、文件系统管理和应急shell。格式为"XXXX-cmw710-boot-XXXXX.bin"
 System程序(.bin文件):包含了设备操作和网络业务相关的模块,包括设备管理、接口管理、配置管理和无线配置。格式为"XXXX-cmw710-system-XXXXX.bin"
 IPE文件:Comware V7的软件包在实际发布的时候,会把boot程序和system 程序文件打包成一个IPE文件。格式为"XXXXX.ipe"

升级流程图如下:



注意V5升级V7配置需要参考配置和命令手册先翻译。

Solt 1