

NR500 Series Industrial Cellular VPN Router

Application Note 018

Upgrade Firmware via Uboot

Version: Date: Status:

V1.0.0 2018/09/15 Confidential





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1. Introduction

1.1 Overview

This document contains information regarding the configuration and use of upgrade firmware via uboot.

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product, and of the requirements for their specific application.

1.2 Compatibility

This application note applies to: **Models Shown:** NR500 series. **Firmware Version:** V1.0.0(903.0) or newer **Other Compatible Models:** None

1.3 Version

Updates between document versions are cumulative. Therefore, the latest document will include all the content of previous versions.

Release Date	Doc. Version	Firmware Version	Change Description
2018/09/15	V1.0.0	V1.0.0(903.0)	First released

1.4 Corrections

Appreciate for corrections or rectifications to this application note, and if any request for new application notes please email to: support@navigateworx.com



2. Upgrade via Uboot

1. Connected to the router with console cable, then reboot the router, when "booting" to "0", please hit any key board to make the router go into uboot mode.

root@navi	igateworx:~#	[20064.533352]	reboot:	Restarting	system	14	
*****	**********	***	****				
* * ******	NR500 U-Bo Build: 201	00t 1.0.0 8-08-20					
BOARD: CPU: RAM: FLASH: MAC: CLOCKS: Hit any W	NR500 Standa MIPS 74KC 64 MB DDR1 1 16 MB Winbor 00:03:7F:09: CPU/RAM/AHB/ 550/400/200/ cey to stop b	ard 6-bit CL3-3-3-4 d w2SQ128 0B:AD (fixed) SPI/REF 25/ 25 MHz pooting: 0	8				Y
nr 500s> nr 500s>							

2. Run the command "**printenv**" to check the info and setup the server IP on the PC accordingly.



3. Setup the correct IP on PC:



Internet Protocol Version 4 (TCP/IPv4) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatically			
Use the following IP address:			
IP address:	192 . 168 . 111 . 101		
Subnet mask:	255 . 255 . 255 . 0		
Default gateway:	192 . 168 . 111 . 1		
Obtain DNS server address automatically			
• Use the following DNS server add	resses:		
Preferred DNS server:	192 . 168 . 111 . 1		
Alternate DNS server:	· · ·		
Validate settings upon exit	Advanced		
	OK Cancel		

4. Put the firmware and TFTP software in the same folder, and rename the firmware as "**firmware.bin**", then run the TFTP software.

UBOOT UPGRADE	ن ~
Name firmware.bin Image: Server interfaces Server interfaces Image: Titp Server Titp Server Titp Server File Start time progress	Size 5,696 KB 230 KB
About Settings Help	

5. Run the command "run ufw" to start the firmware upgrade.



nr500s> <mark>run uf</mark>	w
Link down: eth	O
Ethernet mode	(duplex/speed): 1/1000 Mbps
Using eth1 dev	vice
Ping OK, host	192.168.111.101 is alive!
TFTP from IP:	192.168.111.101
Our IP:	192.168.111.200
Filename:	firmware.bin
Using:	eth1
Load address:	0x80800000
Loading:	

6. Firmware upgraded successfully



7. Run command "reset" to reboot the router.