



Upgrading V150/V200 software

Application Note AN303
Revision v1.2
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AN303 Upgrading V150/V200 software

1 Overview

This Application Note explains how you can upgrade the software on a V150/V200 using the menu structure.

If you are unsure about using VNUT refer to Application Note **AN307 Installing the Vocality Network Upgrade Tool (VNUT)** and if you are unsure whether the Boot ROMs are the correct minimum version for your new software refer to **AN304 Upgrading Boot ROM Firmware**.

2 Configuring IP

The unit must be configured with an IP address on the same subnet as the PC, connected to ENET1, which is running VNUT (the Vocality Network Upgrade Tool, available from the Vocality Support Portal) and used to store the upgrade software. Assuming the PC has IP address 192.168.0.140 you need to add a network entry to ENET1 as shown below:

Chan	DBA IP	Address	Mask	MTU	UDPGw	TCPGw	Bridge	Dest
ENET1	NUM	192.168.0.139	255.255.255.0	1514	<input type="radio"/> OFF <input checked="" type="radio"/> ON	<input type="radio"/> OFF <input checked="" type="radio"/> ON	<input type="radio"/> OFF	

Figure 1 IP Configuration

In Figure 1 192.168.0.139 is a currently unused IP address on the same subnet as the PC, so it is now assigned to the ENET1 port of the V150/V200 unit.

3 Upgrading the software

To upgrade the software on the V150/V200 you need to enter the IP address of the PC in the field 'TFTP Server' displayed by the Vocality TFTP application (VNUT) on the PC.

Enter the software file name in the field 'Upgrade Version', in the lower half of the screen shown in Figure 2.

For example, **V09_41_02**.

If your software is VOS08_02.01 or later you can set the Missing dig signature parameter. The parameter should be set to Abort unless you are aware that you will be loading old software (prior to VOS08_02.01). The software image contains a digital signature to verify its authenticity and check for possible corruption. The signature is checked following the completion of the download from the server, but before programming the Flash. Older software versions (prior to VOS08_02.01) did not contain a signature. This parameter controls whether software download is permitted when there is no signature.

Note: If a signature is detected, but that signature is incorrect, the software is not written to Flash and the upgrade fails.

Select the Status <UPGRADE> button. The 'Status' field shows the progress of the file transfer.



SOFTWARE MANAGEMENT

No changes pending

SOFTWARE VERSIONS PRESENT:

Version	Attributes	Created	Loaded	
V08_08_05	<input type="text"/>	18:44:04 Mar 5 2015	07:16:55 Mar 27 2015	<input type="button" value="DELETE"/>
V09_01_02	Primary <input type="text"/>	11:51:36 Apr 10 2015	11:27:04 Apr 10 2015	<input type="button" value="DELETE"/>
V09_41_02	<input type="text"/>	10:43:33 Apr 10 2015	11:23:20 Apr 10 2015	<input type="button" value="DELETE"/>
V08_10_03	<input type="text"/>	08:19:29 Mar 30 2015	07:42:39 Mar 30 2015	<input type="button" value="DELETE"/>

UPGRADE:

TFTP Server:

Upgrade Version:

Operation:

Status: Idle

Missing dig signature: Allow Abort

Source Address Override: - ENET1

Figure 2 Software Management menu

On the PC, the VNUT window shows the progress of the application upgrade:

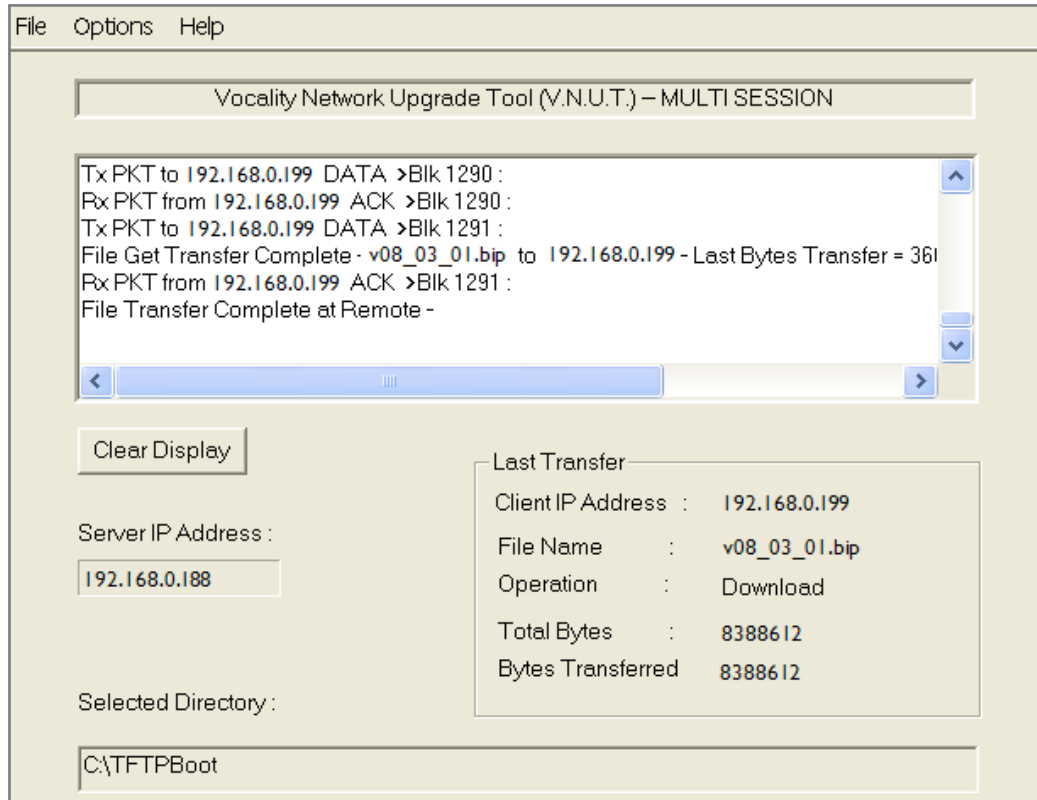


Figure 3 VNUT showing upgrade progress



On the V150/V200, the progress is shown:

SOFTWARE MANAGEMENT

✔ Validate
No changes pending

SOFTWARE VERSIONS PRESENT:

Version	Attributes	Created	Loaded	
V08_08_05	<input type="text" value=""/>	18:44:04 Mar 5 2015	07:16:55 Mar 27 2015	✘ DELETE
V09_01_02	Primary <input type="text" value=""/>	11:51:36 Apr 10 2015	11:27:04 Apr 10 2015	✘ DELETE
V09_41_02	<input type="text" value=""/>	10:43:33 Apr 10 2015	11:23:20 Apr 10 2015	✘ DELETE
V08_10_03	<input type="text" value=""/>	08:19:29 Mar 30 2015	07:42:39 Mar 30 2015	✘ DELETE

UPGRADE:

TFTP Server:

Upgrade Version:

Operation:

Status: Downloading V09_41_02.APL...

Missing dig signature: Allow Abort

Source Address Override: - ENET1

Figure 4 Software Management menu showing update progress

The new software will be added to your list of SOFTWARE VERSIONS PRESENT with an <UPGRADE> attribute, but it will not be used until the unit is rebooted. When you reboot, if no <UPGRADE> file is found, a Primary file is loaded. If no Primary file is found, a Secondary file is loaded. If no Secondary file is found, the most current file is loaded.

After your first reboot the <UPGRADE> flag will be deleted and on next reboot the old software, with the attribute Primary, will be loaded. If you wish to make the new software your default, it is imperative that you tag it as Primary.

All software versions are retained in the file system and may be reactivated as Primary at any time in the same way.

Unit configurations are maintained during software updates.

4 About Application Notes

Application Notes are intended as a supplement to, rather than a substitute for, your User Manual. Should you have queries which are not answered by our current documentation, your local Vocality support team would be happy to hear from you.

E-mail support@vocality.com.