

VOCALITY INTERNATIONAL – APPLICATION NOTE		
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TITLE: Upgrading the V100 using the Flash Upgrade Tool		

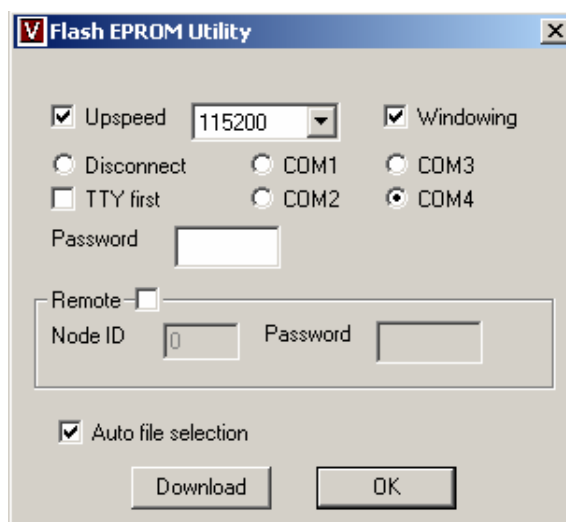
Upgrading the V100 using the Flash Upgrade Tool

Overview

The Flash exe. program is a PC utility used to upgrade the V100 Versatile Multiplexer to a newer version of the V100 host software. It will run under Windows™95, 98, XP or 2000.

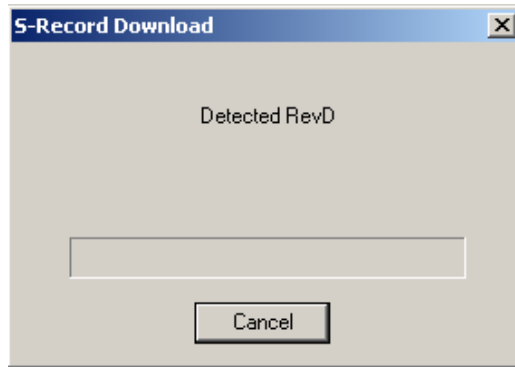
Configuration and installation

1. Close all applications using the COM ports on the PC being used to perform the V100 software upgrade.
2. For software releases downloaded from our support site, a zipfile will be placed in the specified folder on your PC. Double-clicking this file will launch the WinZip utility, which will allow the new code to be extracted to a folder called "Vocality".
3. Double-click on the new folder. This displays a sub-folder named according to the new software version. Double-click this sub-folder to display a number of files. One of these is the "FLASH.EXE" utility used to download the code into the V100.
4. Double-click on the Flash.exe tool - this will run the Flash.exe application.
5. The program displays a configuration window. Ensure that the following parameters are set:
 - a. "Upspeed" is checked
 - b. Rate is set to 115200
 - c. The correct COM port is selected
 - d. Auto file selection is checked
 - e. The read/write password is entered if required, for s/w Ver. 2.1.16 and above only

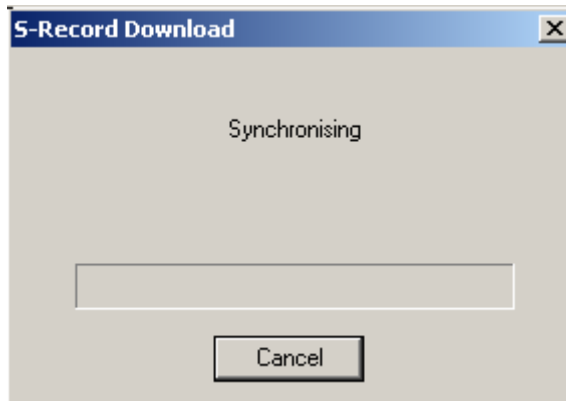


6. Click "Download"
7. If the "Auto file selection" box is not checked, an "Open file" window will pop up to allow the user to manually select the correct code file for the V100 hardware. Otherwise, the utility automatically selects the appropriate software .abs file for the unit, either rev B, C, or D. For software versions prior to 2_01.12, the utility will prompt for manual file selection anyway.

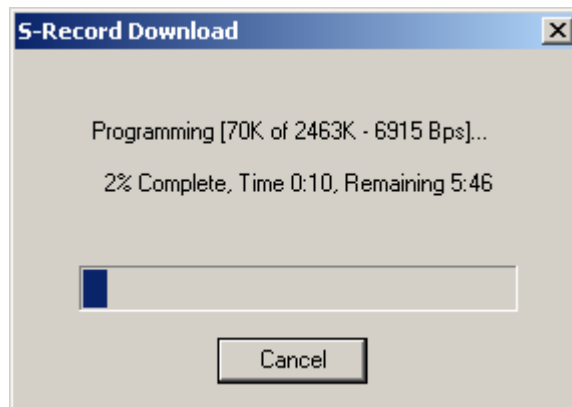
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8. The programming sequence will start: - first the program will synchronize with the unit:

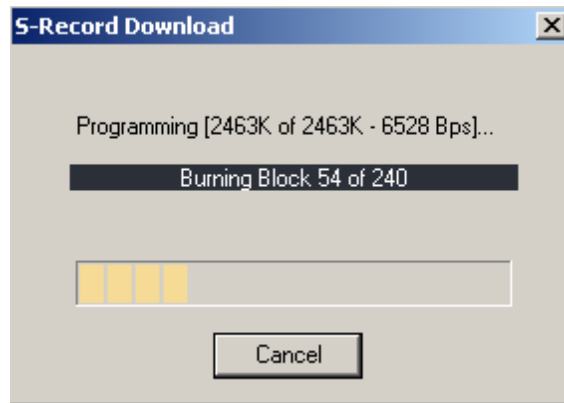


9. Once connection is established, programming commences as according to the following steps:

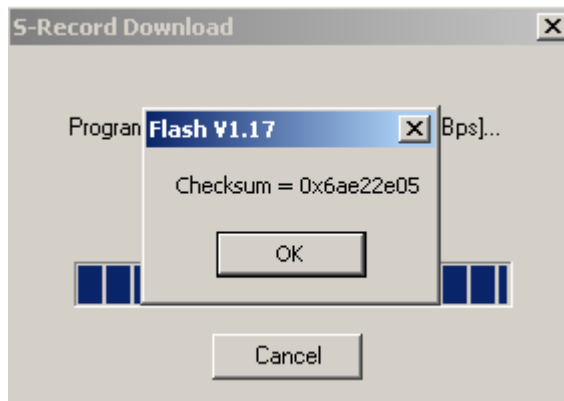


- From this point on, power must NOT be removed from the V100.
- The application will download the software; the status is indicated by the progress marker. PLEASE BE PATIENT, AS THIS WILL TAKE A FEW MINUTES!
 - Once downloaded, the V100 will burn the new software into the FLASH memory, again indicated by the progress marker.

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- c. When complete, the checksum will be displayed.



- d. Click O.K. to complete the upgrade. This will cause the V100 to restart.

10. Close the "Flash.exe" application, by clicking OK.

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Additional Information for upgrade to Version 02 01.12 and later software on Revision D units.

V100 Revision D2 and D3 units are distinguished by the 6 LED's and I.P. connection port on the front panel of the unit. All V100 Compact units (VI68800) are also Revision D units.

This addition to the Application Note covers a new configuration menu item on the SYSTEM menu page which simplifies recognition for the Option 0 interfaces, namely the ISDN Terminal Adaptor (VI68711) and Time Division Multiplexer (TDM) Interface card. Proceed as follows:

- 1) Flash load new software as described above.
- 2) Enter the system page from the main menu.

```

node0          V100 Multiplexer Supervisor
AGGREGATE STATUS : ISDN B1 Carrier Lost ISDN B2 Carrier Lost
-----[ SYSTEM ]-----
NODE NAME      : node0          NODE ID       : 000
CONFIGURATION BY REMOTE : Enabled
ACTIVE CONFIGURATION# : 1
EDIT CONFIGURATION#  : 1
ALARM RELAY DELAY   : None          OPTION 0     : ISDN
ALARM RELAY MODE    : Auto
COUNTRY            : UK              RW PASSWORD  :
CONNECTION TIMEOUT  : 80 seconds    RO PASSWORD  :
RECEIVE READY FILTER : 1 seconds    ACCESS TIMEOUT : 0 seconds
DATA CHANNEL ACTIVATION : Auto
DATA CHANNEL FLAG   : Always On
TIE-LINE ACTIVATION : M-Lead
ASYNC BUFFER SIZE   : 32 buffers
-----
Enter Text

```

- 3) The Option 0 selection is displayed on the right-hand side of the screen. Select the appropriate option interface by moving the arrow keys to highlight the field and scrolling through the options by pressing the space bar. The options are NONE, TDM or ISDN.
- 4) Press the escape (esc) key.
- 5) You will be given the option to save changes. Press 'y' (for yes) and the changes will be saved.
- 6) Reboot the unit by cycling the mains power.
- 7) With an ISDN card fitted, the following boot-up sequence is displayed:

```

System Power Up
ISDN TA Initialised
Voice Card detected in option slot 1
Loading configuration...

```

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10) With the TDM card fitted, the following boot-up sequence is displayed:

```
System Power Up
TDM Card initialised
Voice Card detected in option slot 1
```

11) During the power-up sequence, the ISDN card is also rebooting and under certain network conditions, may take longer to initialize than the V100 host. To guarantee that all components have correctly registered in the system, a failsafe has been implemented, using the new field, such that the unit will remain in the boot-up phase until the selected card is found.

This sequence appears as follows:

```
System Power Up
ISDN TA Detection Failure

System Power Up
ISDN TA Initialised
Voice Card detected in option slot 1
Loading configuration...
```