
Installation Manual for S3C2440A (Windows CE 4.2)



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Contents

1	BUILDING ENVIRONMENT AND COPYING FILES	1
2	BUILDING A NEW PLATFORM.....	5
3	BUILDING OS IMAGE - WITHOUT KITL	13
4	RUNNING THE IMAGE USING ETHERNET DOWNLOAD	22
5	RUNNING THE IMAGE USING USB DOWNLOAD	33
6	DOWNLOADING IMAGE ON SMC NAND FLASH	38
	INDEX	52

Figures

Figure 1-1 Platform Builder Window	1
Figure 1-2 Opening Manage Catalog Features Window	2
Figure 1-3 Manage Catalog Features Window	3
Figure 1-4 Import Catalog Features Window	3
Figure 1-5 Manage Catalog Features Window After Adding smdk2440.cec File	4
Figure 2-1 Creating New Platform	5
Figure 2-2 New Platform Wizard - Step1	6
Figure 2-3 New Platform Wizard - Step2	7
Figure 2-4 New Platform Wizard - Step3	8
Figure 2-5 New Platform Wizard - Step4	9
Figure 2-6 New Platform Wizard - Step5	10
Figure 2-7 New Platform Wizard - Step6	11
Figure 2-8 New Platform Wizard - Step7	12
Figure 3-1 New Platform Features	13
Figure 3-2 Adding Windows CE Test Kit to Features	14
Figure 3-3 Added Features in the Platform	16
Figure 3-4 Platform Settings	17
Figure 3-5 Removing KITL Setting in Platform Settings Window	18
Figure 3-6 Build Platform	19
Figure 3-7 Building Process	20
Figure 3-8 After Building OS Image	21
Figure 4-1 DNW Window	22
Figure 4-2 UART/USB Options	23
Figure 4-3 DNW Window After Board Power ON	23
Figure 4-4 SDRAM Test	24
Figure 4-5 Download & Run	24
Figure 4-6 Downloading EBOOT.nb0	25
Figure 4-7 After EBOOT.nb0 Download	26
Figure 4-8 Ethernet Boot Loader Configurations	27
Figure 4-9 Configuring Remote Connection	28
Figure 4-10 Configure Remote Connection - Download	29
Figure 4-11 Configure Ethernet Download Service	29
Figure 4-12 Configure Remote Connection - Kernel Transport	30

Figure 4-13 Downloading NK.bin to Target Board.....	31
Figure 4-14 Messages via UART Port During NK.bin Download	31
Figure 4-15 Messages via UART Port After Booting WinCE 4.2	32
Figure 5-1 DNW Window.....	33
Figure 5-2 UART/USB Options	34
Figure 5-3 DNW Window After Board Power ON	34
Figure 5-4 SDRAM Test	35
Figure 5-5 Download & Run.....	35
Figure 5-6 Downloading NK.nb0.....	36
Figure 5-7 Downloading Status of NK.nb0	37
Figure 6-1 SDRAM Status	38
Figure 6-2 Setting Download Address for 2440loader.bin.....	39
Figure 6-3 Selecting 2440loader.bin File for Download	39
Figure 6-4 UART/USB Options	40
Figure 6-5 Download & Run.....	40
Figure 6-6 Selecting 2440test.bin for Download	41
Figure 6-7 Selecting the Function to Test.....	42
Figure 6-8 Selecting NAND Flash Type	43
Figure 6-9 Input Target Size	44
Figure 6-10 UART/USB Options.....	45
Figure 6-11 Download & Run	45
Figure 6-12 Selecting EBOOT.nb0 for Download	46
Figure 6-13 Messages via UART Port After EBOOT.nb0 Download	47
Figure 6-14 Ethernet Boot Loader Configurations.....	48
Figure 6-15 Ethernet Boot Loader Configurations.....	49
Figure 6-16 Messages via UART Port During NK.bin Download	50
Figure 6-17 Downloading Status of NK.bin	50
Figure 6-18 Messages via UART Port after Downloading NK.bin	51

1 Building Environment and Copying Files

This Manual will explain in detail how to copy and install the Samsung BSP for S3C2440 by using Windows CE .NET 4.2.

1. To start the BSP installation, please copy the Samsung SMDK2440 BSP to 'X:\WINCE420\PLATFORM' directory on your host PC and make sure that the BSP directory name is **SMDK2440**. Once created and copied, the **smdk2440.cec** file and **smdk2440.bat** file will be available in the 'X:\WINCE420\PLATFORM\SMDK2440' directory.

Note1: To use without KITL, please locate and then uncomment 'CS8900.dll' in the **platform.bib** file which is present in the 'X:\WINCE420\PLATFORM\SMDK2440\FILES' directory on your host PC.

Note2: To use with KITL, please locate and then comment 'CS8900.dll' in the **platform.bib** file which is present in the 'X:\WINCE420\PLATFORM\SMDK2440\FILES' directory on your host PC.

2. To start the BSP Porting of S3C2440 on Windows CE .NET 4.2, on your host PC, please click **Start**, point to **Programs**, point to **Microsoft Windows CE .NET 4.2** and then click on **Platform Builder 4.2**. The following window will appear on your screen.

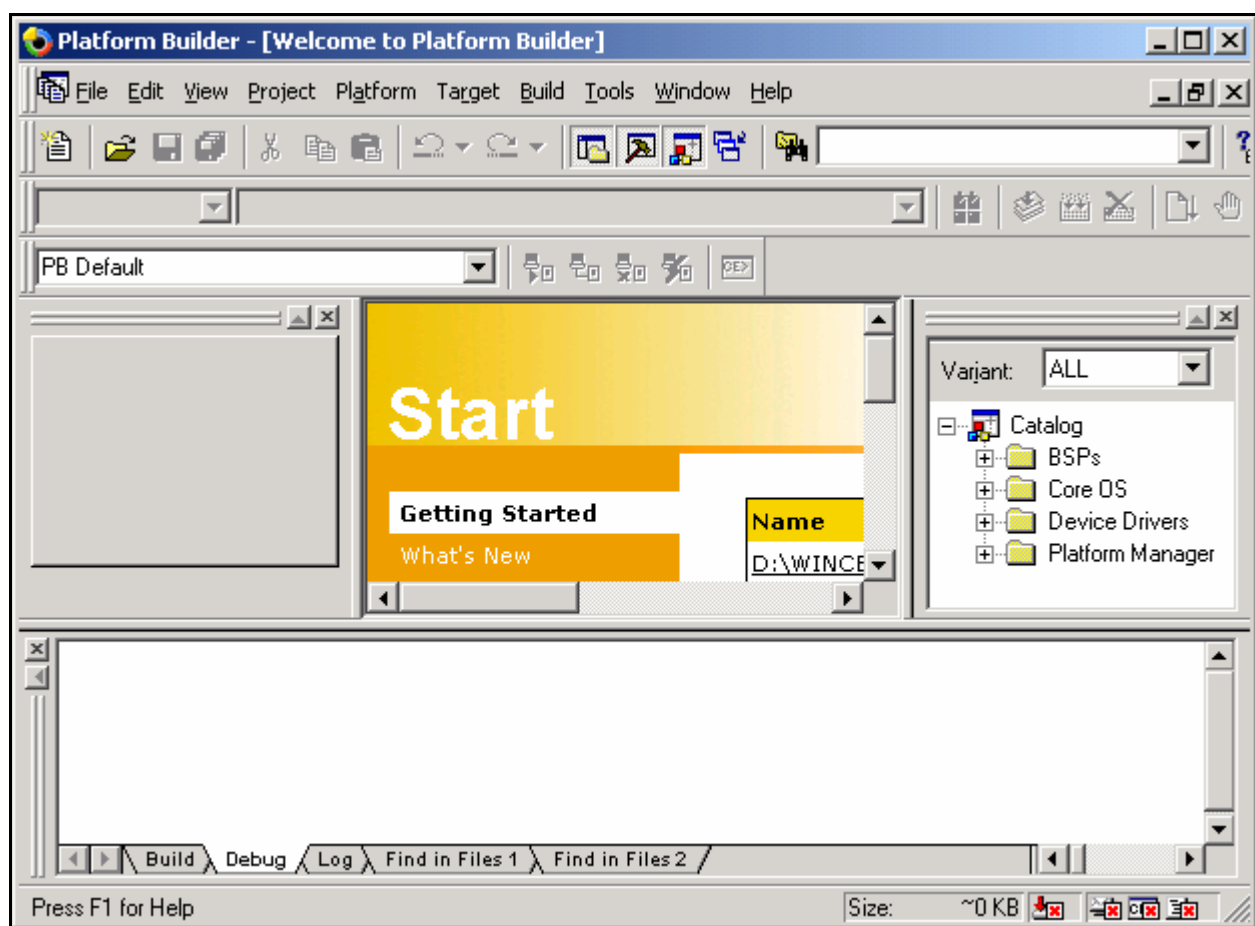


Figure 1-1 Platform Builder Window

3. Please select 'Manage Catalog Features...' from the 'File' menu as shown in the figure below.

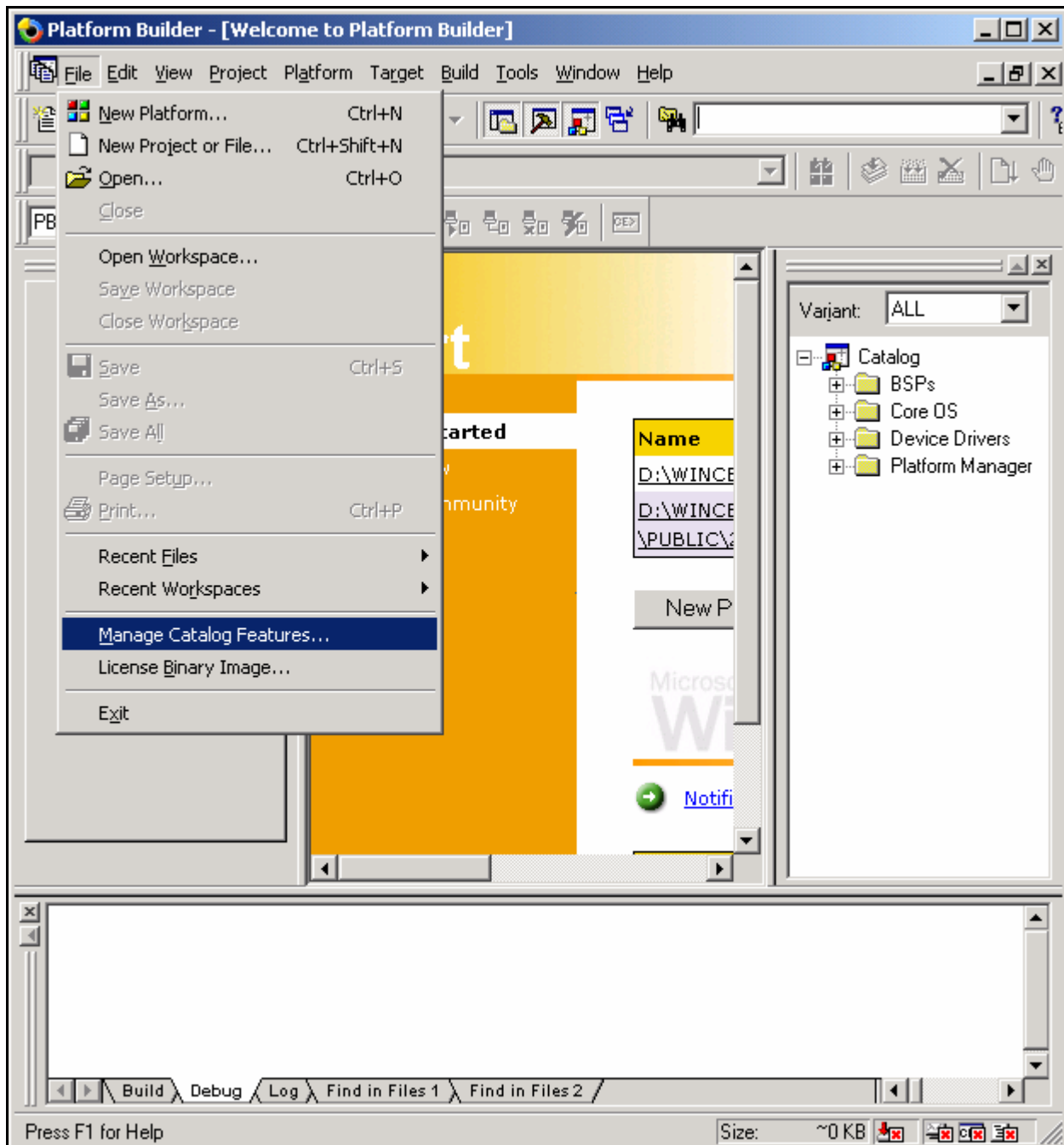


Figure 1-2 Opening Manage Catalog Features Window

4. Manage Catalog Features window will pop up on your screen as shown in the figure 1-3. Please click on the 'Import' button. The Import Catalog Features window will appear on your screen as shown in the figure 1-4. Select 'smdk2440.cec' file from the 'X:\WINCE420\PLATFORM\SMDK2440' directory and then click on the 'Open' button.

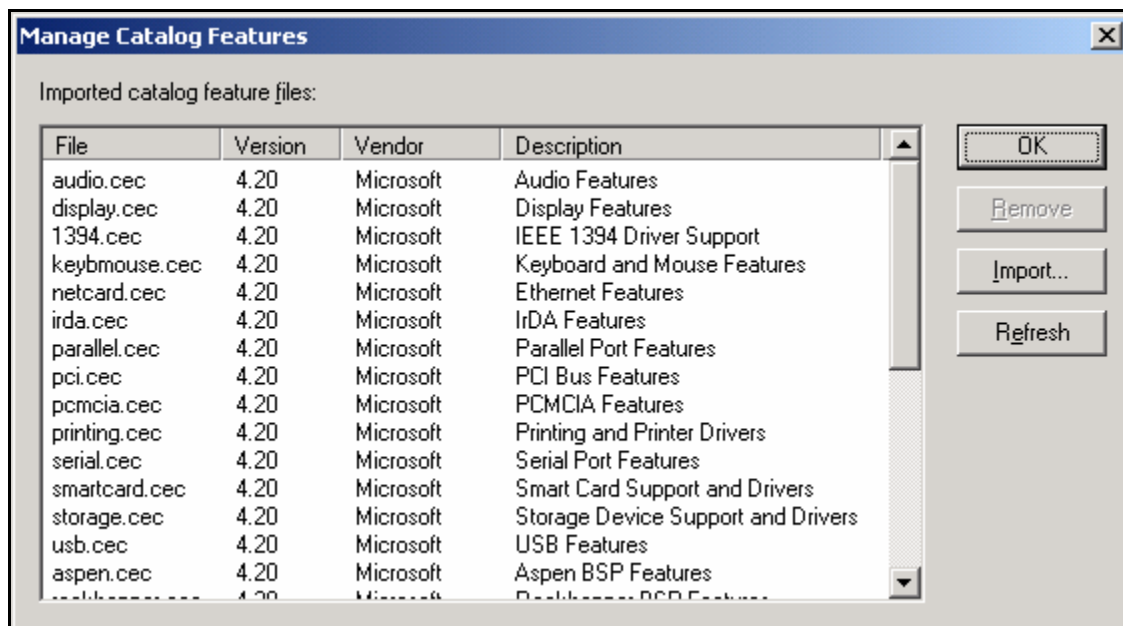


Figure 1-3 Manage Catalog Features Window

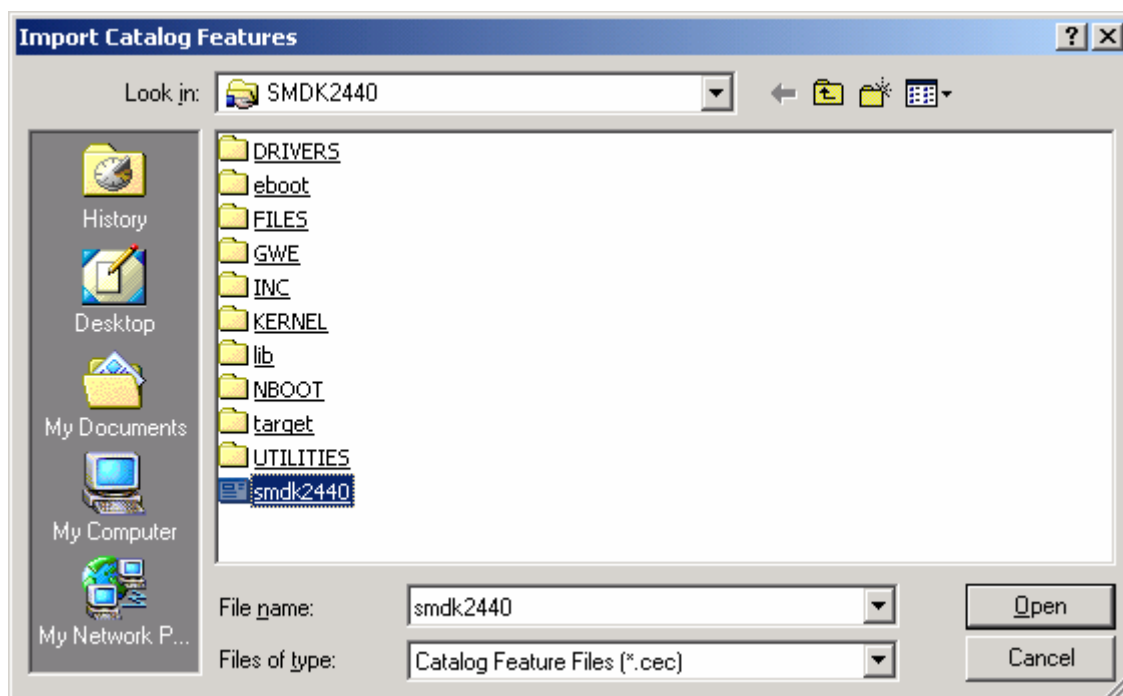


Figure 1-4 Import Catalog Features Window

5. Now you can see the **smdk2440.cec** file added to the **Imported catalog feature files** list in the **Manage Catalog Features** windows as shown below in the figure 1-5. Please click on the 'OK' button and then on the 'Refresh' button.

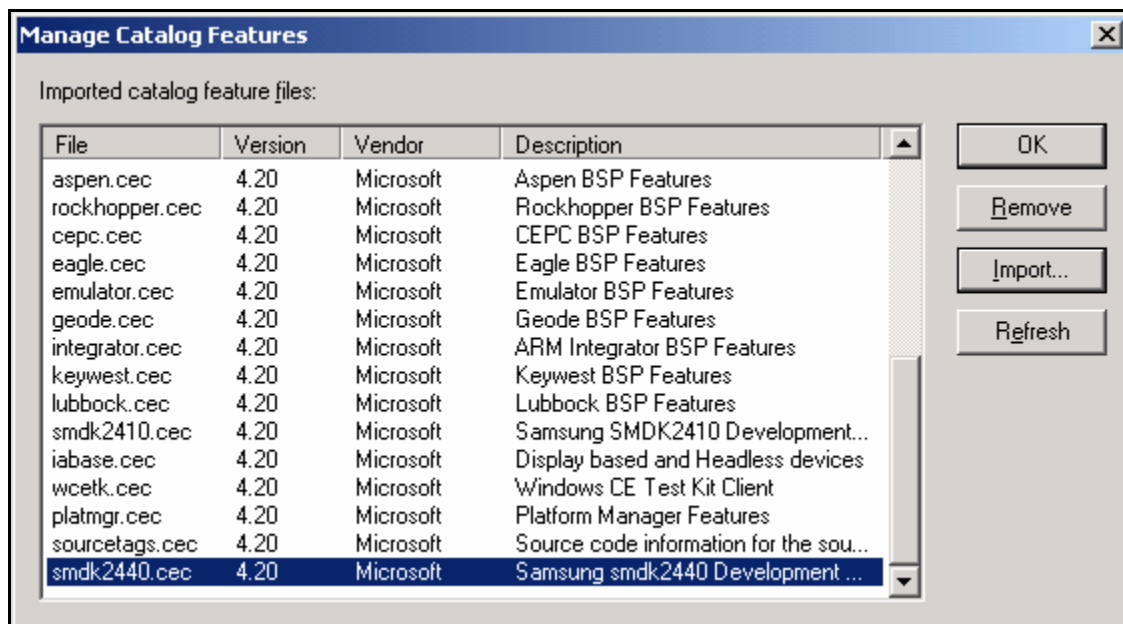


Figure 1-5 Manage Catalog Features Window After Adding smdk2440.cec File

6. Look at the **Catalog\BSPs** directory on the **Catalog** window. Confirm whether **SMDK2440 BSP** was made accurately. If it is not made properly, then remove **smdk2440.cec** in the imported catalog feature files from the 'Manage Catalog Features' window. Please repeat the steps 3-6 again.

2 Building a New Platform

1. In the Platform Builder window on your host PC, please select 'New Platform...' from the 'File' menu as shown below in the figure 2-1.

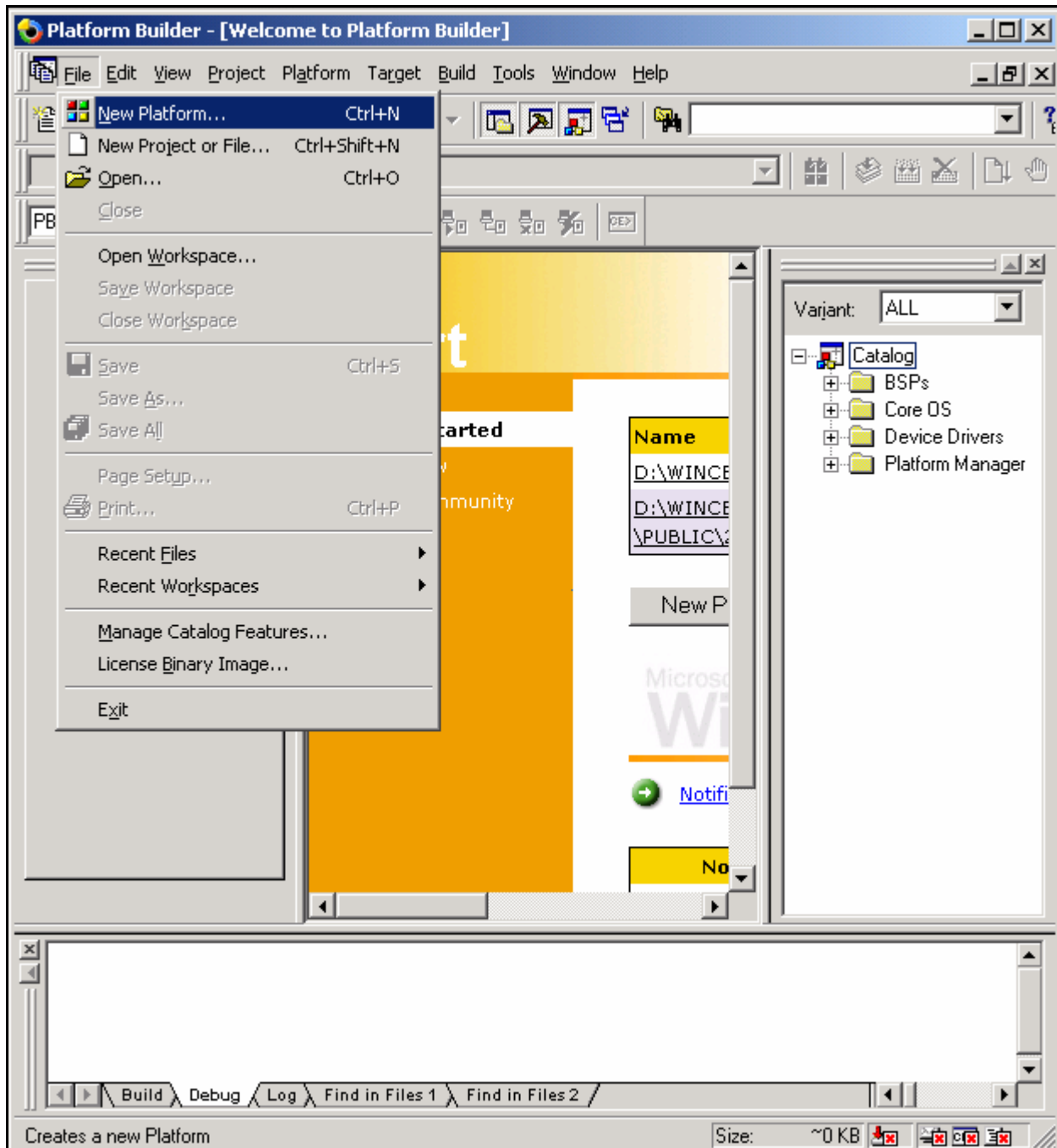


Figure 2-1 Creating New Platform

2. The following window will appear on your screen. Please click on the 'Next' button to continue.

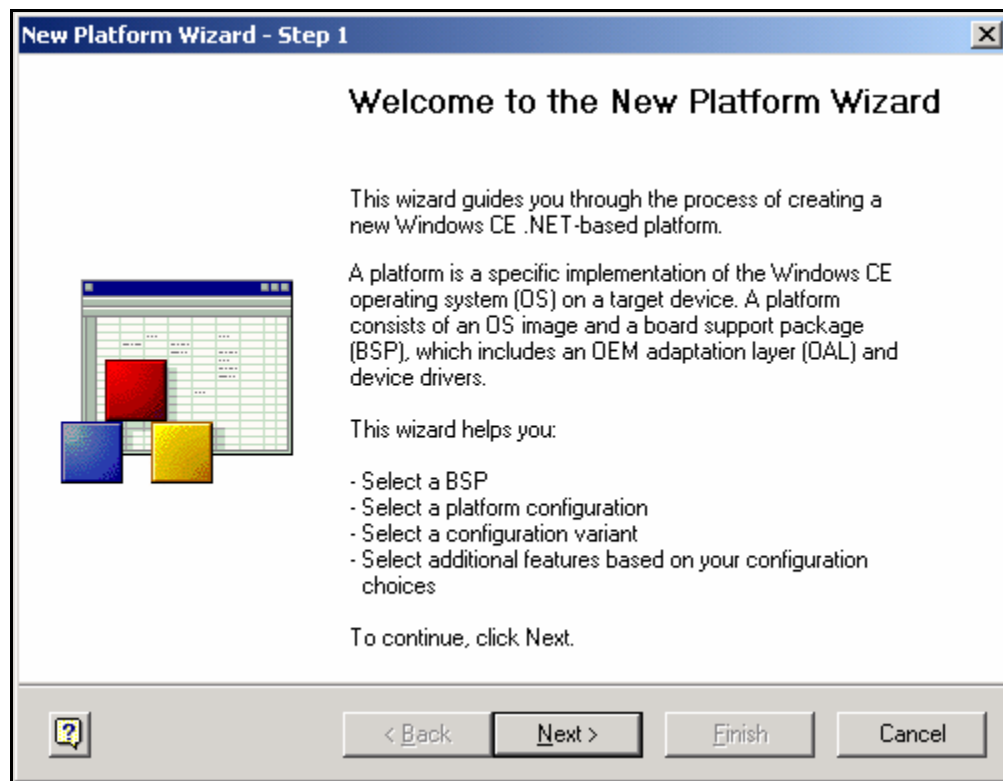


Figure 2-2 New Platform Wizard - Step1

3. The Board Support Packages (BSPs) window will be displayed on your screen. Please select 'SAMSUNG SMDK2440: ARMV4I' by checking the respective square box and then click on the 'Next' button to continue.

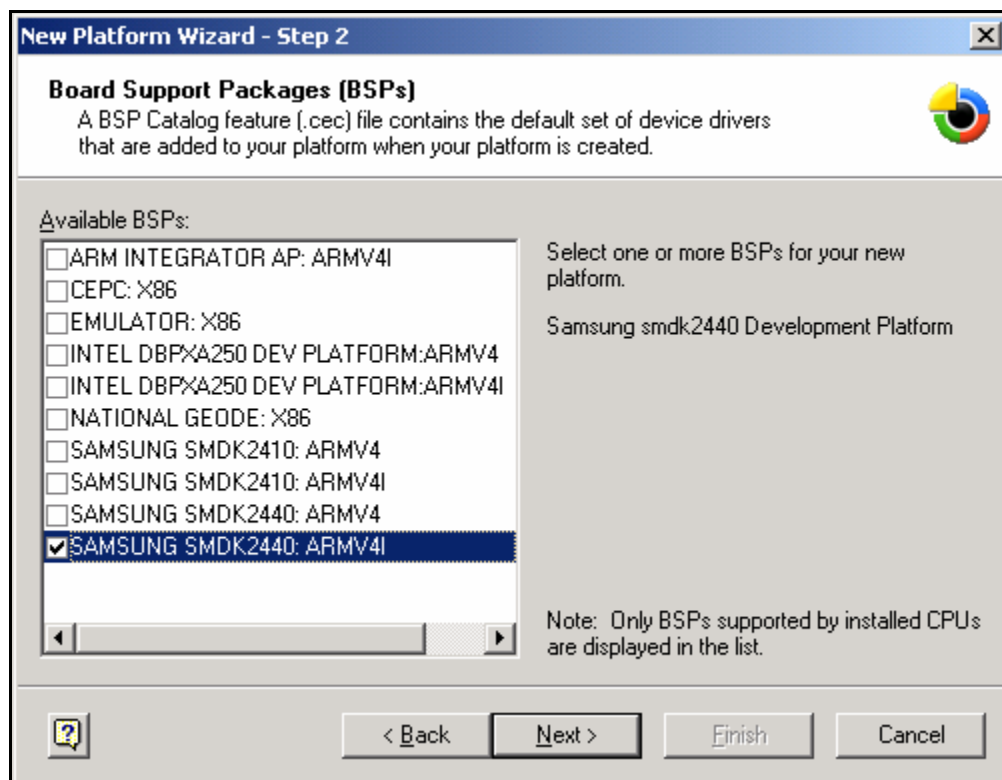


Figure 2-3 New Platform Wizard - Step2

4. The Platform Configuration wizard window will now appear on your screen. Please select 'Mobile Handheld' from the Available Configurations list, type a platform name in the 'Platform name' box, set the default location (if you want) and then click on the 'Next' button to continue.

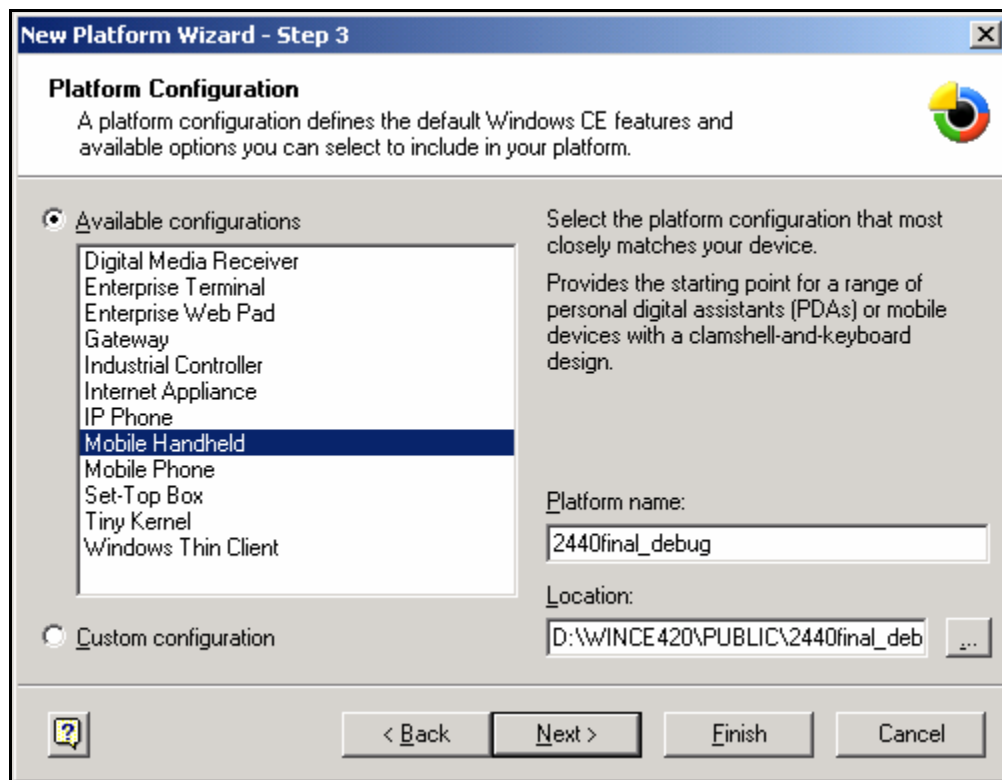


Figure 2-4 New Platform Wizard - Step3

5. The following window will appear on your screen. Here you have to select the **Application & Media** that you want to include in your platform. Please uncheck '**.NET Compact Framework**' feature and then click on the '**Next**' button to continue.

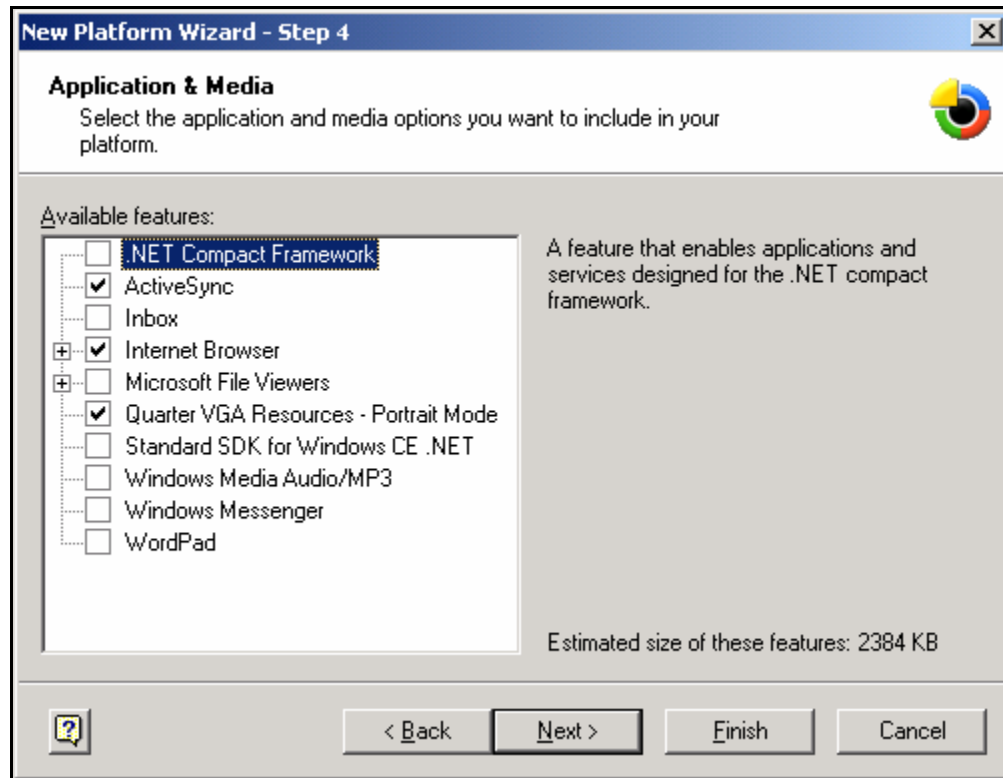


Figure 2-5 New Platform Wizard - Step4

6. The **Networking & Communications** wizard window will now appear on your screen as shown below in the figure 2-6. Please select the various options that you want to include in your platform from the Available features option and then click on the 'Next' button to continue.

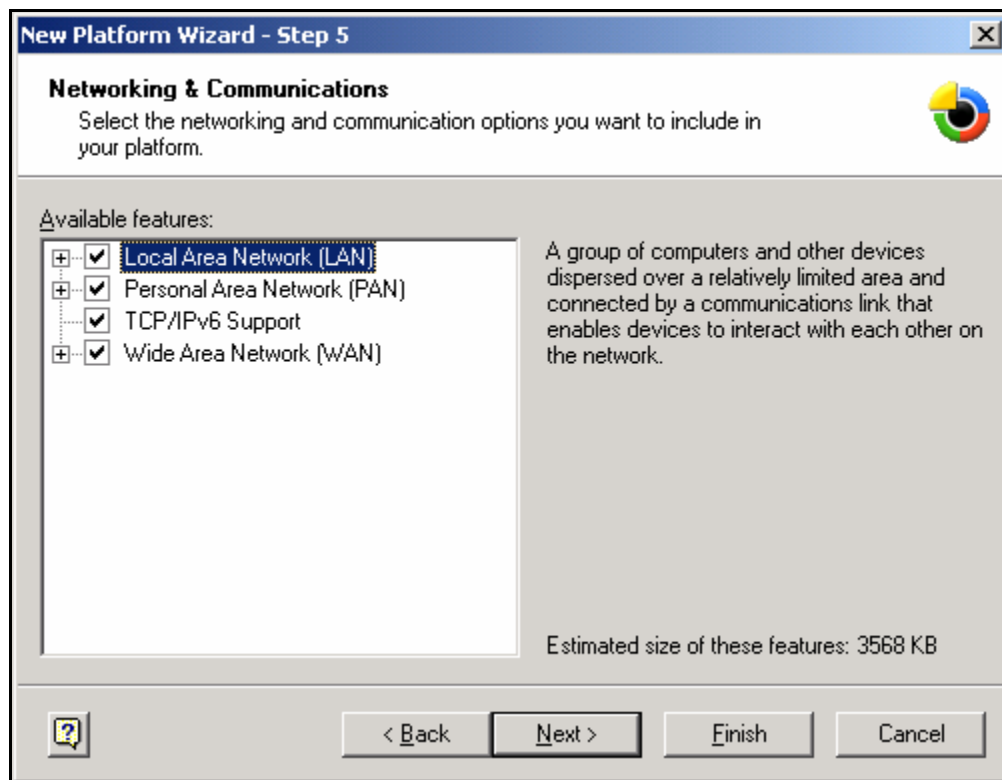


Figure 2-6 New Platform Wizard - Step5

7. The ActiveSync wizard window will appear on your screen as shown below in the figure 2-7. Please read the security warning and then click on the 'Next' button to continue.

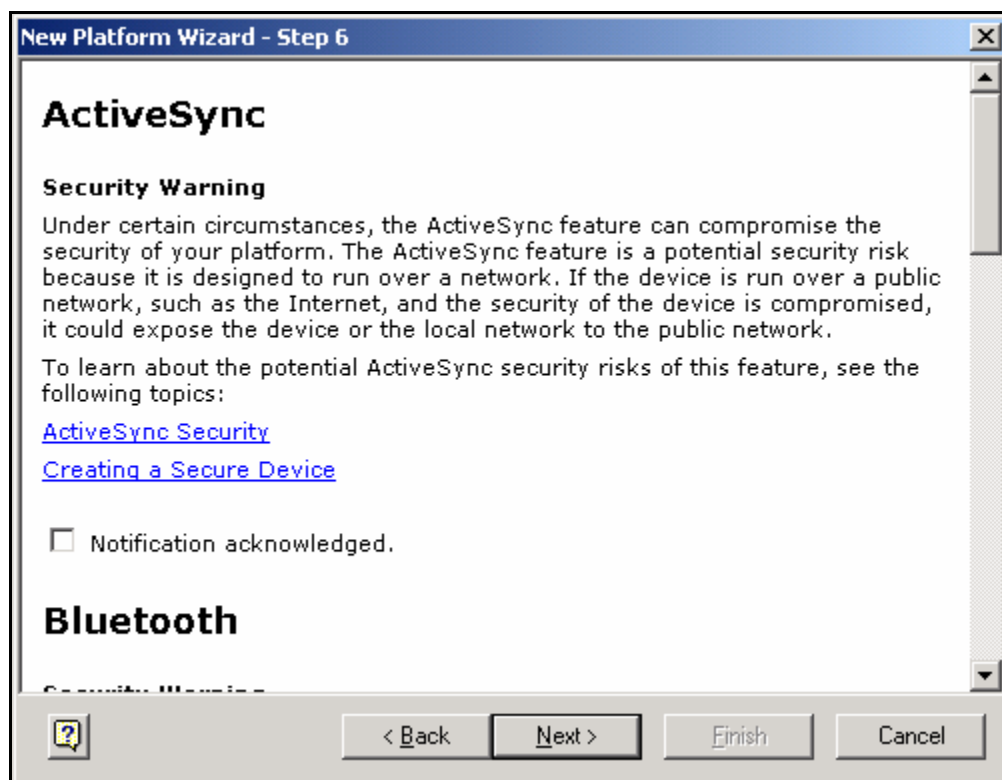


Figure 2-7 New Platform Wizard - Step6

8. The following window will appear on your screen. Please click on the 'Finish' button to complete the process.

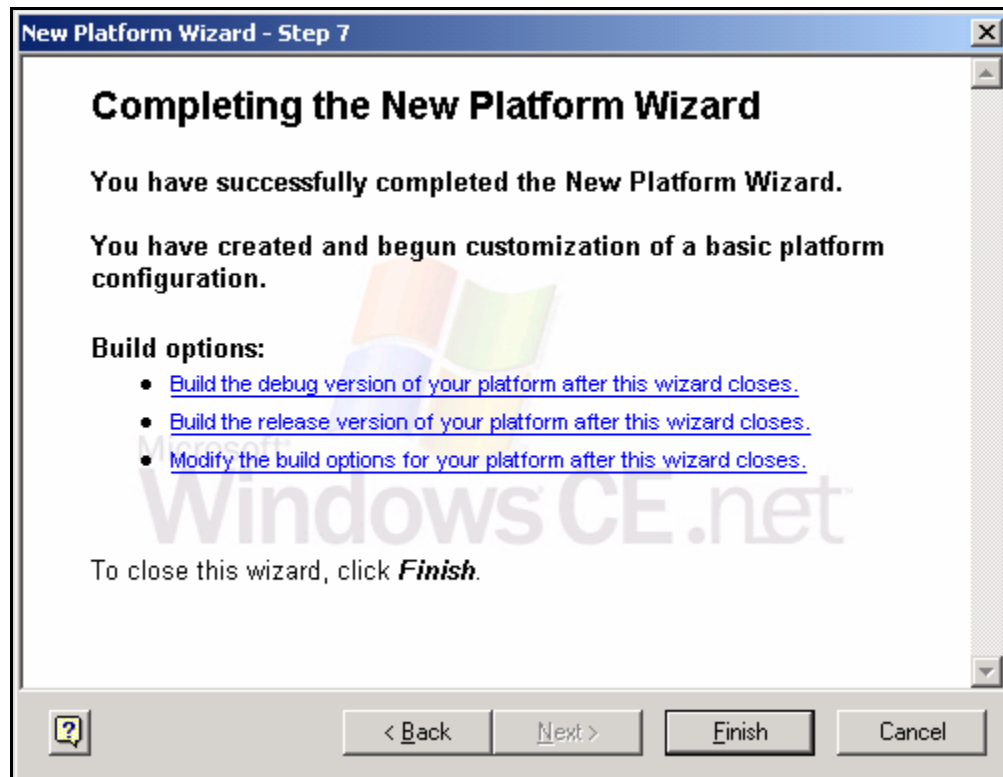


Figure 2-8 New Platform Wizard - Step7

3 Building OS Image - Without KITL

1. In the Platform Builder window on your host PC, you can see the new platform created along with its various sub-directories on the left hand side as shown below in the figure 3-1.

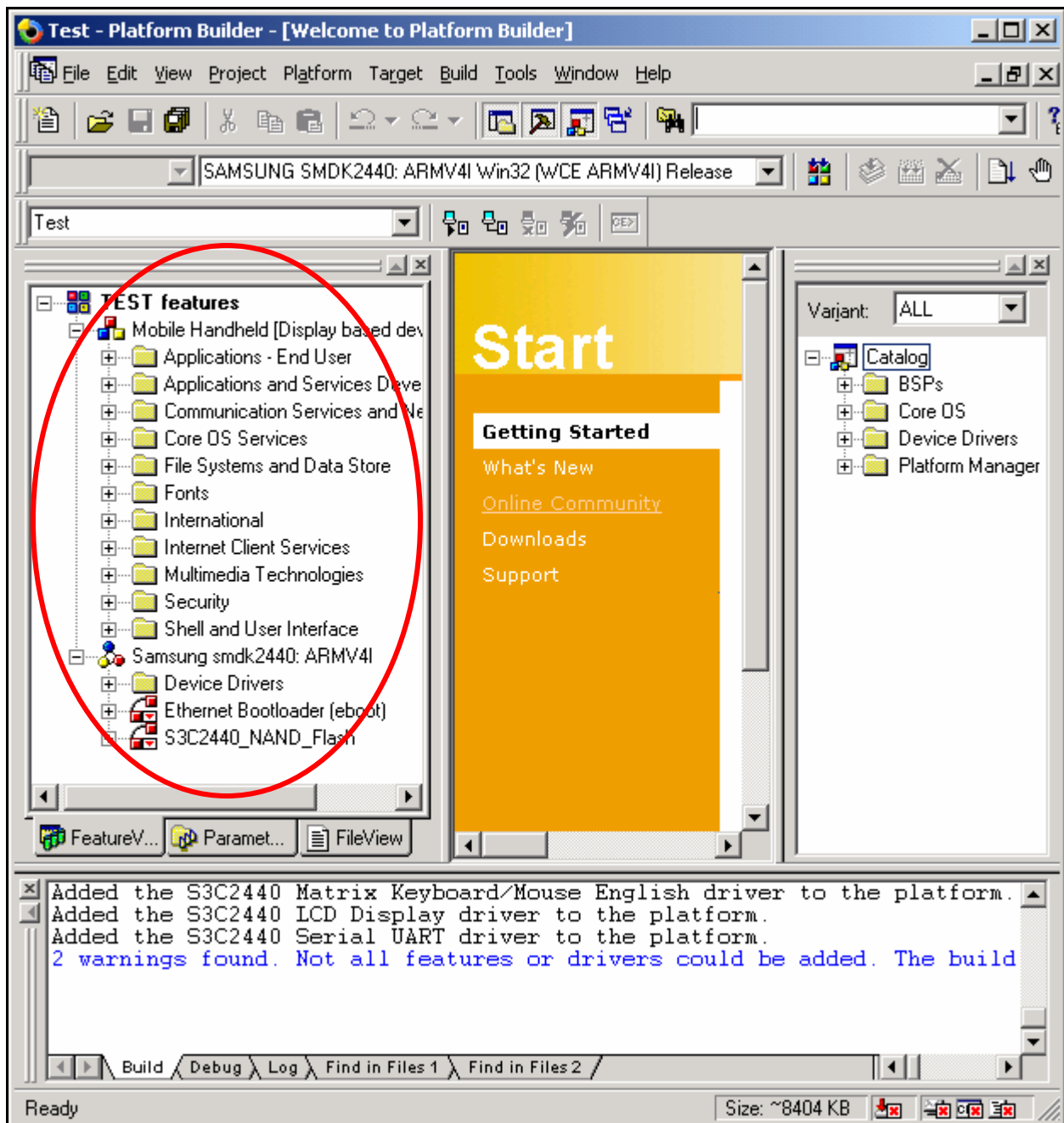


Figure 3-1 New Platform Features

2. Expand the Device Drivers node In the Catalog window, right click on Windows CE Test Kit and then select Add to Platform as shown below in the figure 3-2.

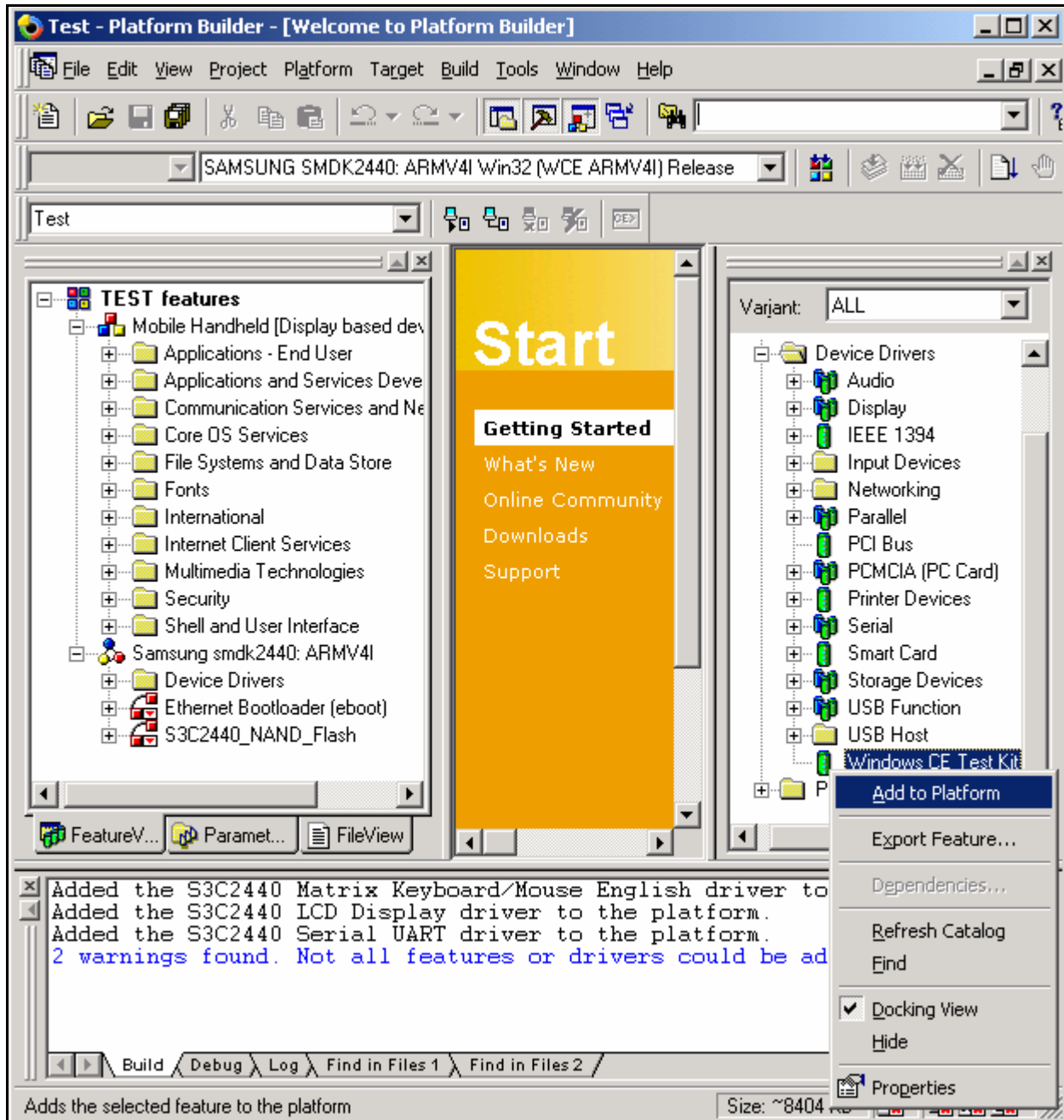


Figure 3-2 Adding Windows CE Test Kit to Features

3. Similarly, please do steps 4-9 to add the various features to your platform. You can also add other features which you want to install in your platform.

4. Expand the Core OS node In the Catalog window, then expand Display based devices -> Core OS Services -> USB Host Support, right click on USB Human Input Device (HID) Class Driver and then select Add to Platform.
5. Expand the Core OS node In the Catalog window, then expand Display based devices -> Core OS Services -> USB Host Support, right click on USB Storage Class Driver and then select Add to Platform.
6. Expand the Core OS node In the Catalog window, then expand Display based devices -> Core OS Services -> USB Host Support -> USB Human Input Device (HID) Class Driver, right click on USB HID Keyboard and Mouse and then select Add to Platform.
7. Expand the Core OS node In the Catalog window, then expand Display based devices -> File Systems and Data Store -> Storage Manager, right click on FAT File System and then select Add to Platform.
8. Expand the Device Drivers node In the Catalog window, then expand Storage Devices -> Storage Devices, right click on ATAPI PCI/IDE Storage Block Driver and then select Add to Platform.
9. Expand the Device Drivers node In the Catalog window, then expand Storage Devices -> Storage Devices, right click on Compact Flash / PC Card Storage (ATADISK) and then select Add to Platform.

10. After completing steps 2 to 9, you can see the added features in the respected sub-directories as shown below in the figure 3-3.

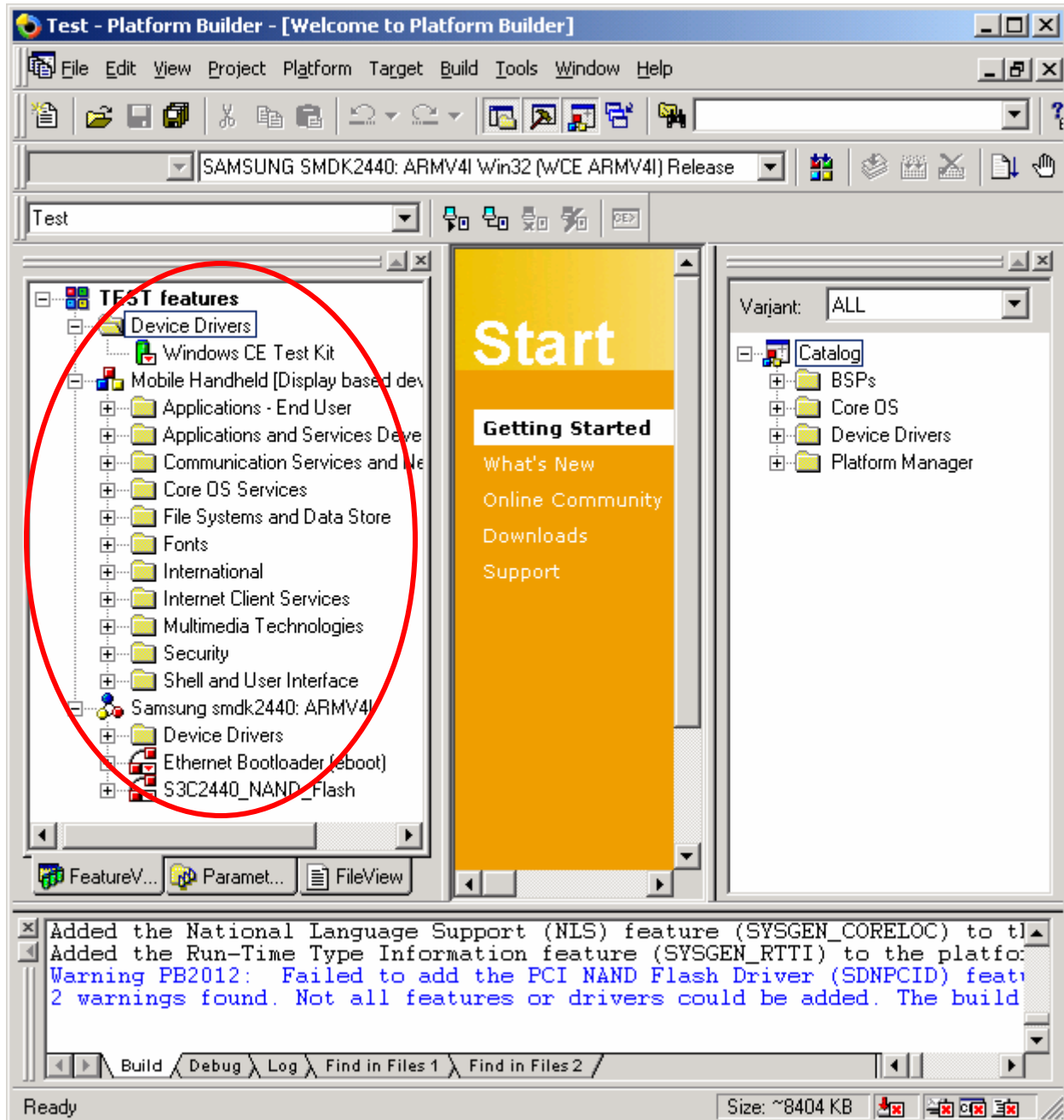


Figure 3-3 Added Features in the Platform

11. Now please select 'Settings...' from the 'Platform' menu in the Platform Builder window as shown below in the figure 3-4.

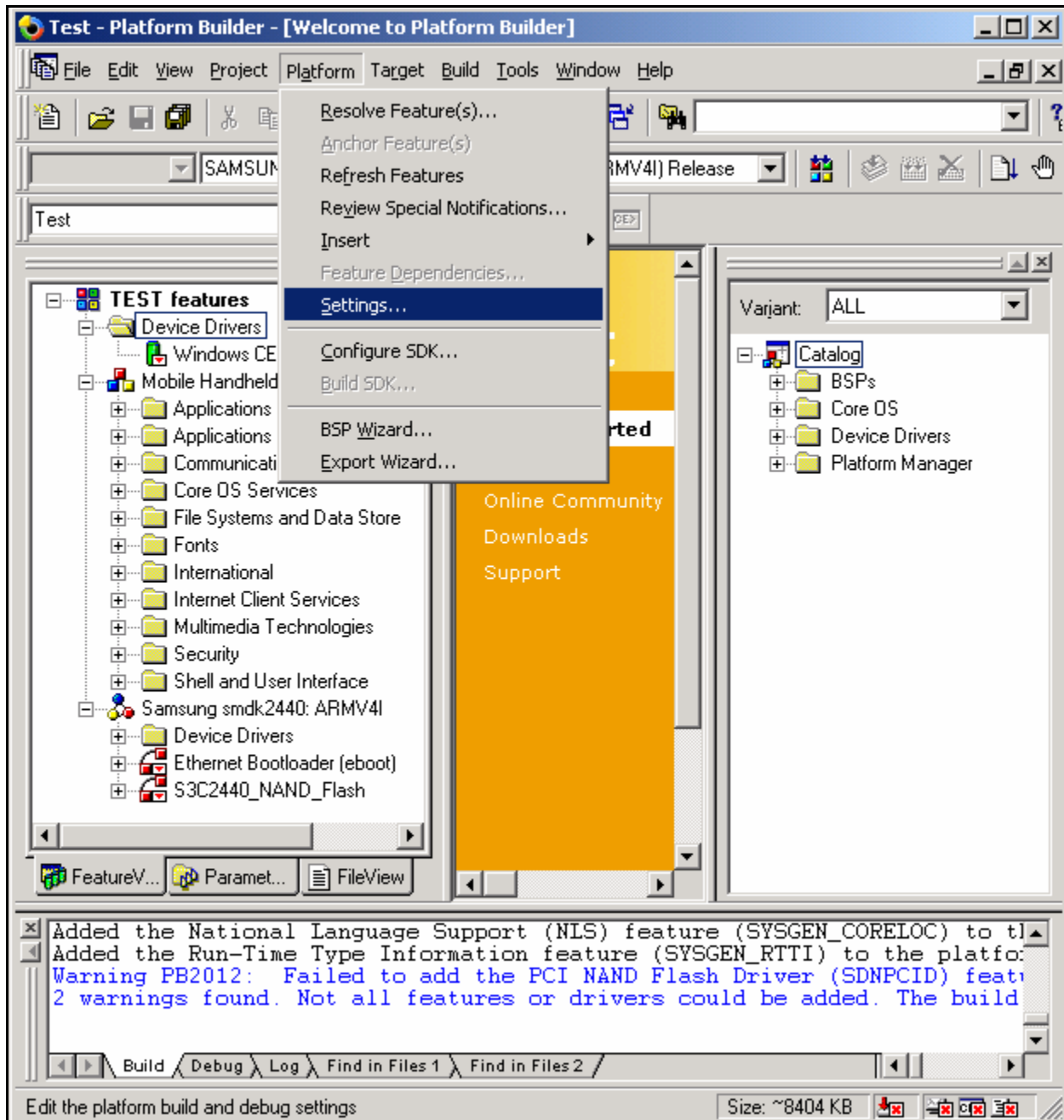


Figure 3-4 Platform Settings

12. The Platform Settings window will now appear on your screen. Please uncheck the square box 'Enable KITL' and 'Enable CE Target Control Support' in the Build Options: list from the Platform Settings window and then click on the 'OK' button.

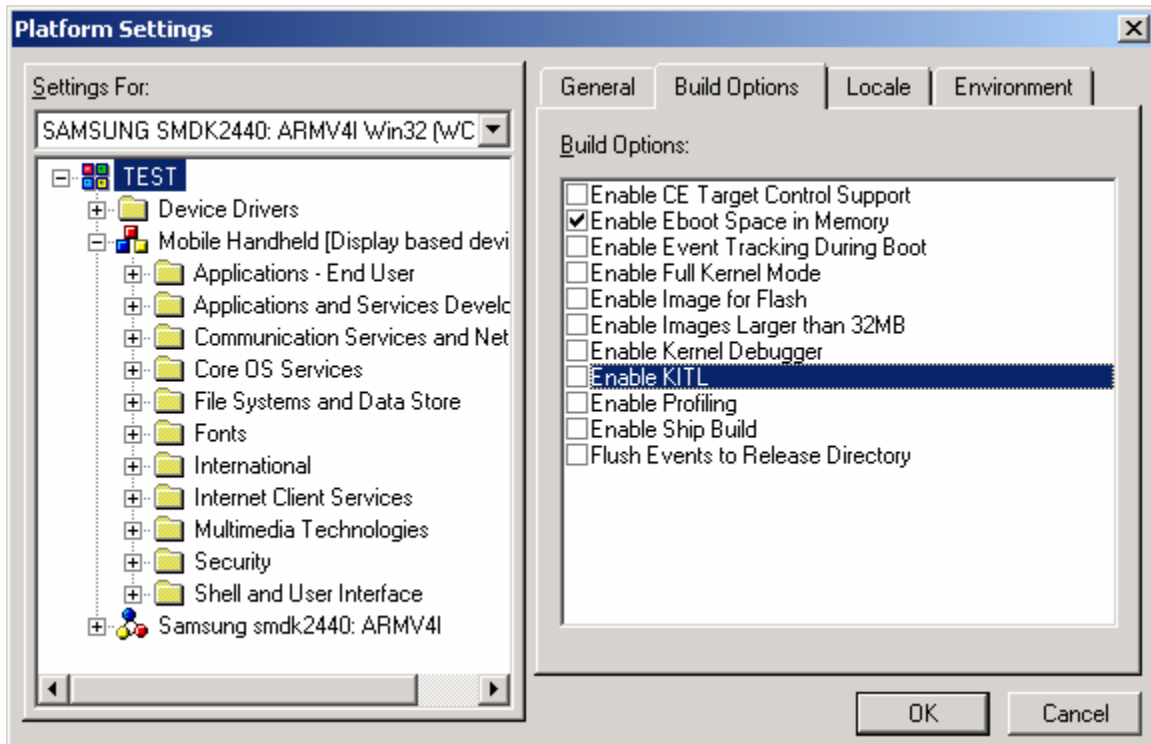


Figure 3-5 Removing KITL Setting in Platform Settings Window

13. Now please select 'Build Platform' from the 'Build' menu in the Platform Builder window to build the 'Eboot image' and the 'OS image' for your platform as shown below in the figure 3-6.

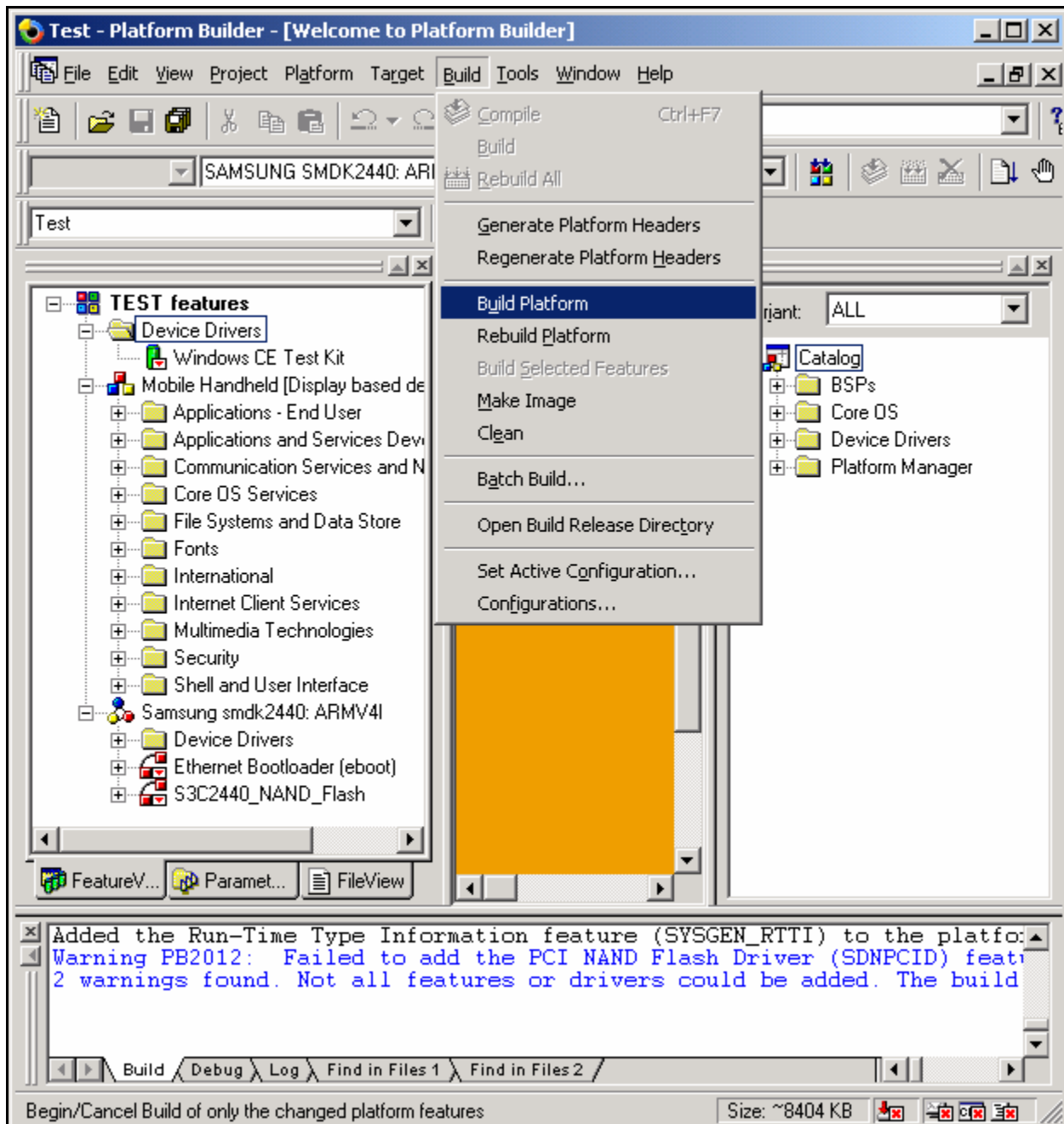


Figure 3-6 Build Platform

Note: This process may take some time depending on the system capability. So, please wait for the process to be completed.

14. The arrow pointing to the icon in the following figure indicates the 'Building process'.

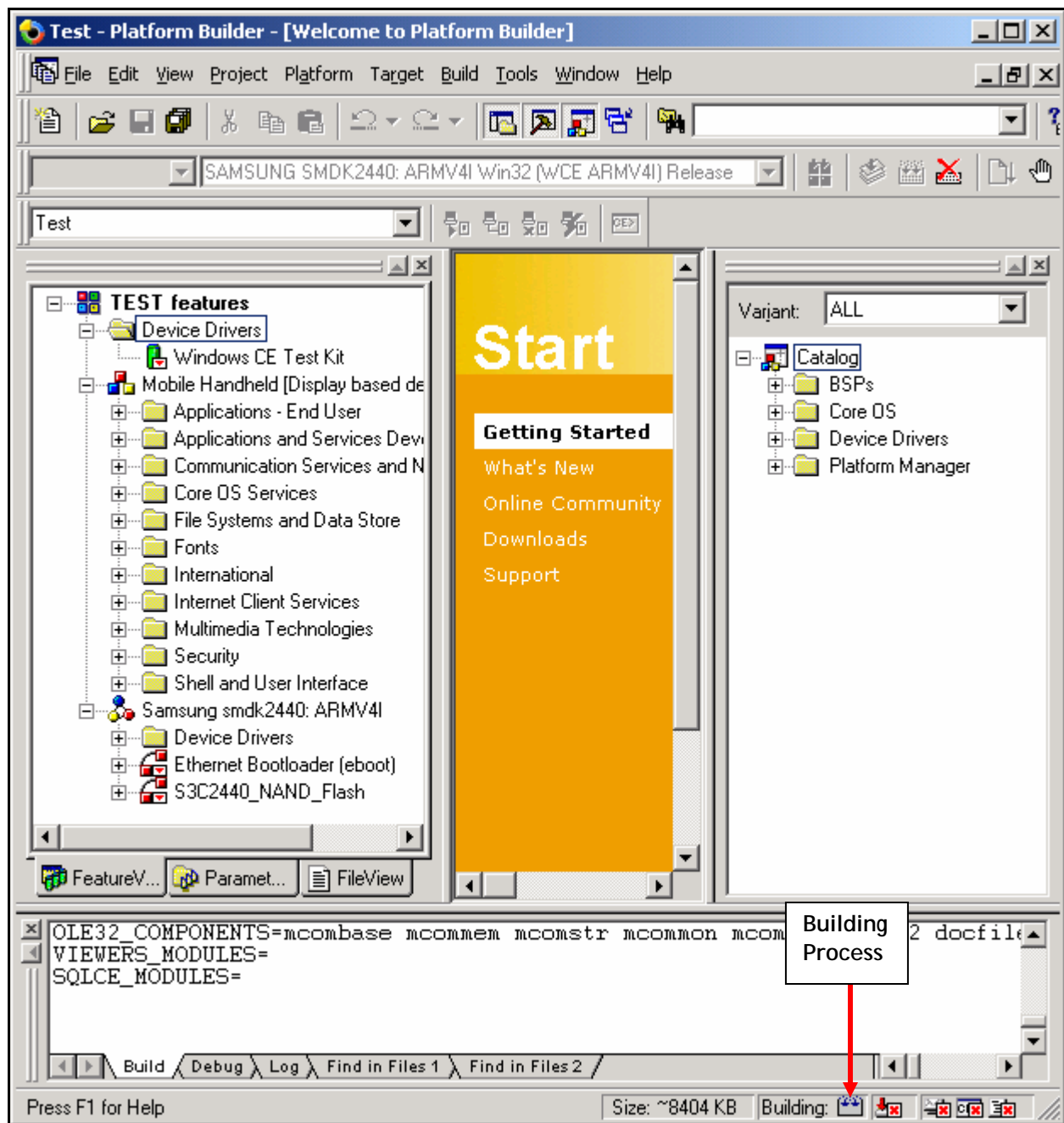


Figure 3-7 Building Process

15. After the completion of build process, the following message will appear on your screen as shown below in the figure 3-8. The EBOOT.nb0 and the OS Image NK.nb0 will be generated in the 'X:\WINCE420\PUBLIC\ [platform name] \RelDir\SAMSUNG_SMDK2440_ARMV4IRelease' directory.

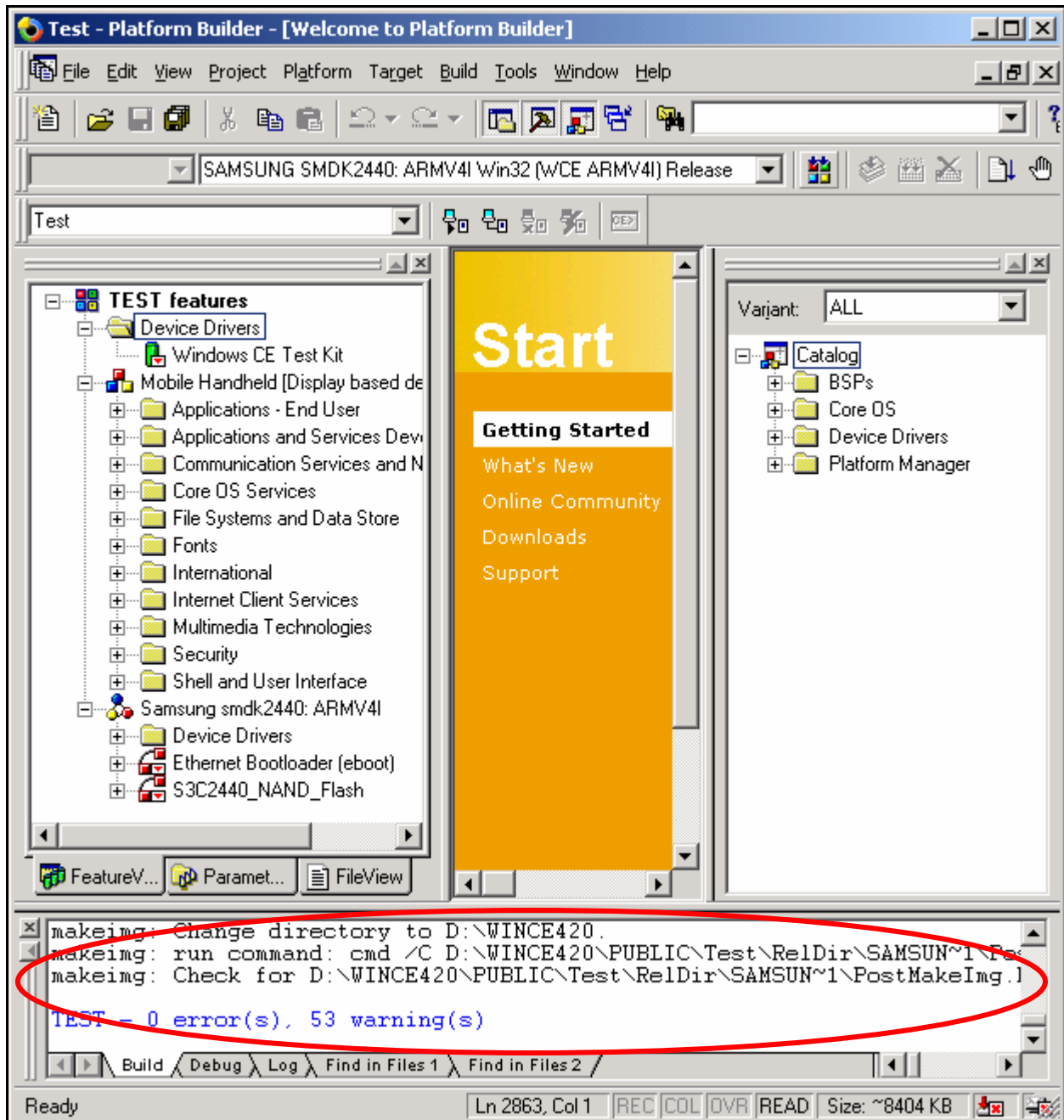


Figure 3-8 After Building OS Image

4 Running the Image Using Ethernet Download

1. Before you download the WinCE Image through the Ethernet, you must have 'u241mon.bin' image on your AMD Flash. For more information check the *Application note* session 2.3 on the homepage.
2. Please install the USB Driver and 'DNW.exe' application on your host PC.
3. After installing the USB drivers, please run 'dnw.exe' from the host PC. The following window will appear on your screen.

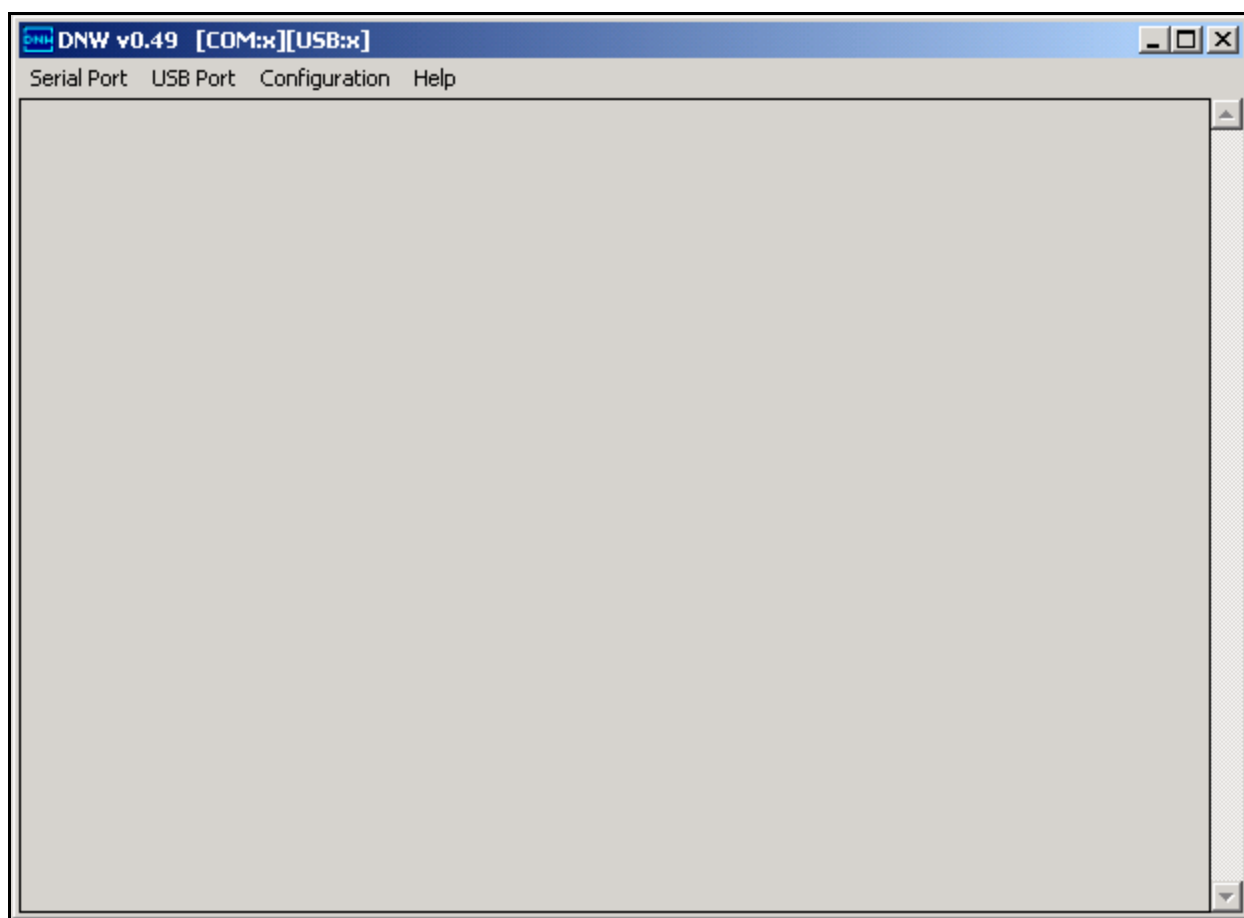


Figure 4-1 DNW Window

4. Now select 'Options' from the 'Configuration' menu to set the UART/USB options. The following window will appear on your screen. Select the Baud Rate and COM Port as shown in the figure 4-2, enter the download address as '0x30038000' and then click on the 'OK' button to continue.

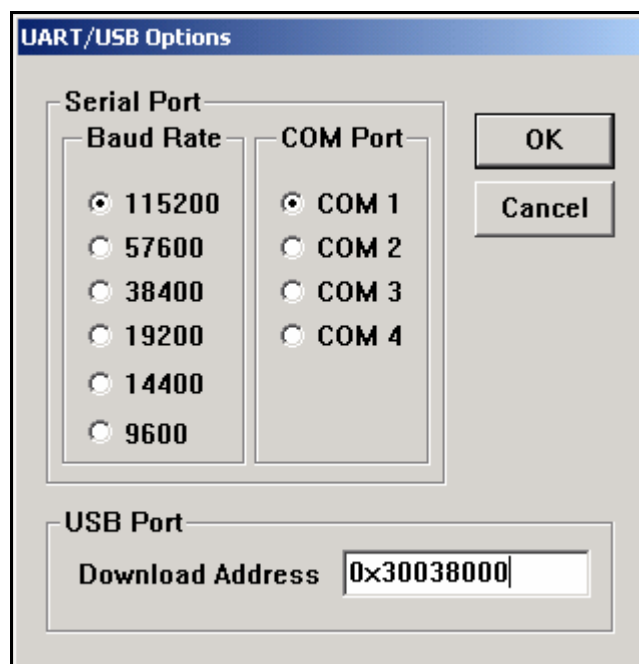


Figure 4-2 UART/USB Options

5. Switch ON the board and then press any key. The DNW application window will now appear on your screen as shown below in the figure 4-3.

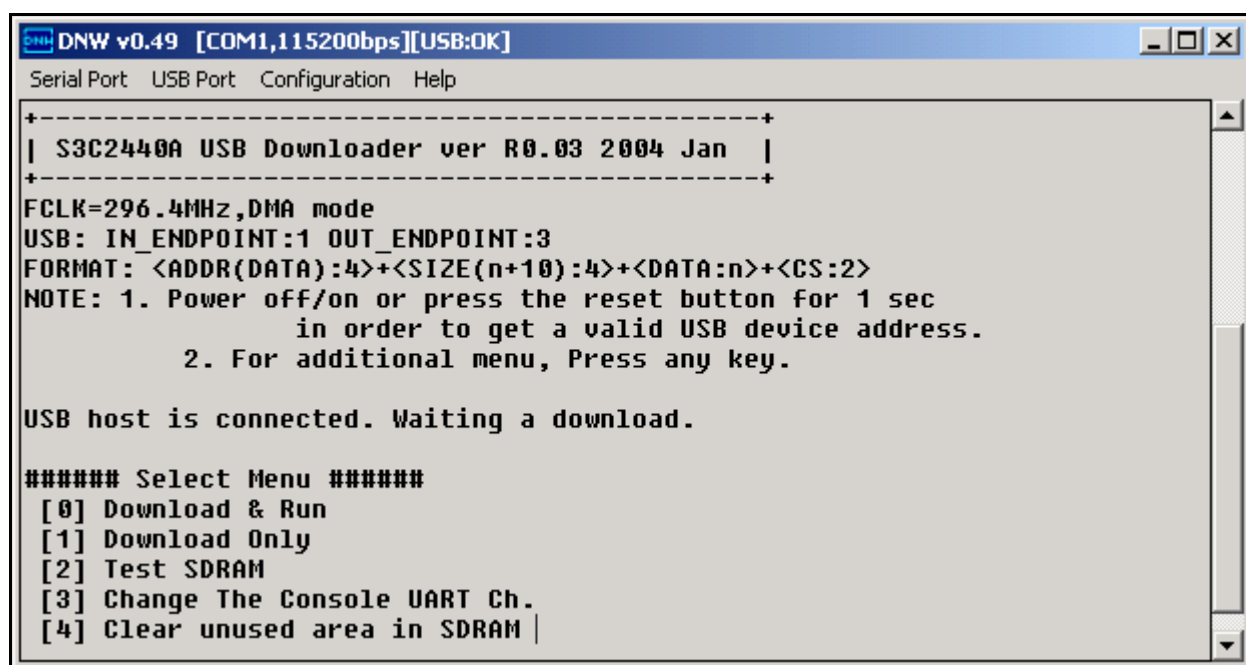


Figure 4-3 DNW Window After Board Power ON

Note: The SMC card must be present on the board.

6. Please enter '2' to check whether SDRAM can Read and Write. Now the DNW application window will appear as shown below in the figure 4-4.

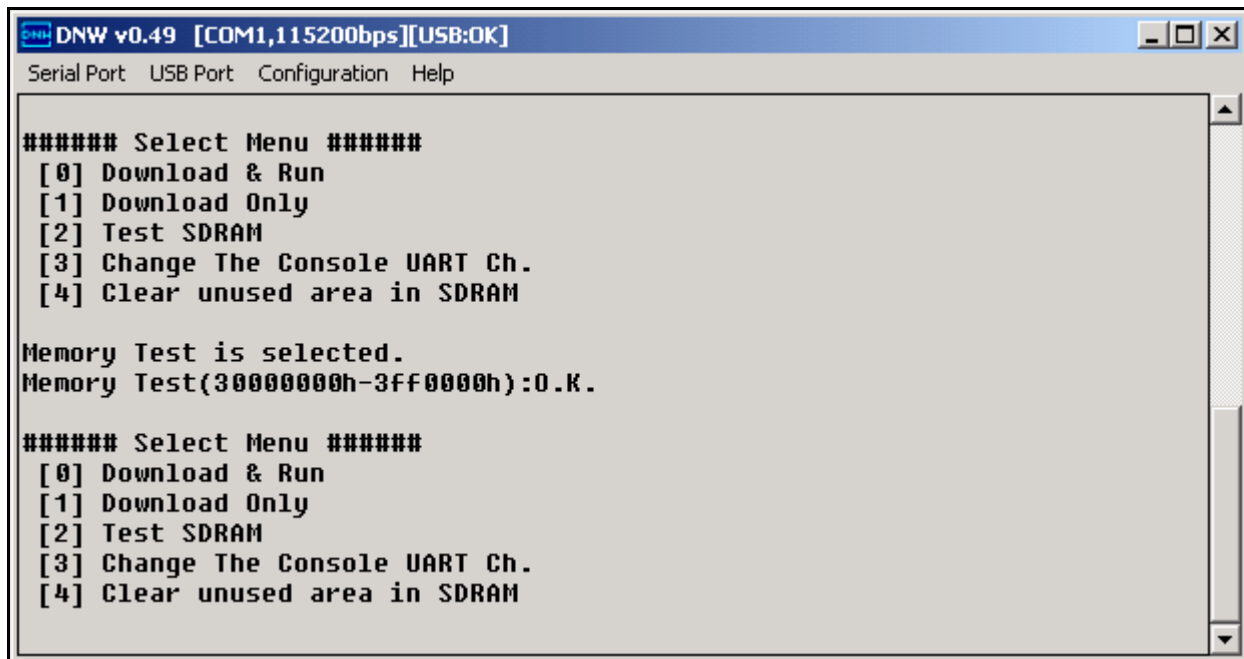


Figure 4-4 SDRAM Test

7. Please enter '0' to Download and Run the Image on the board. The DNW application window will now appear on your screen as shown below in the figure 4-5.

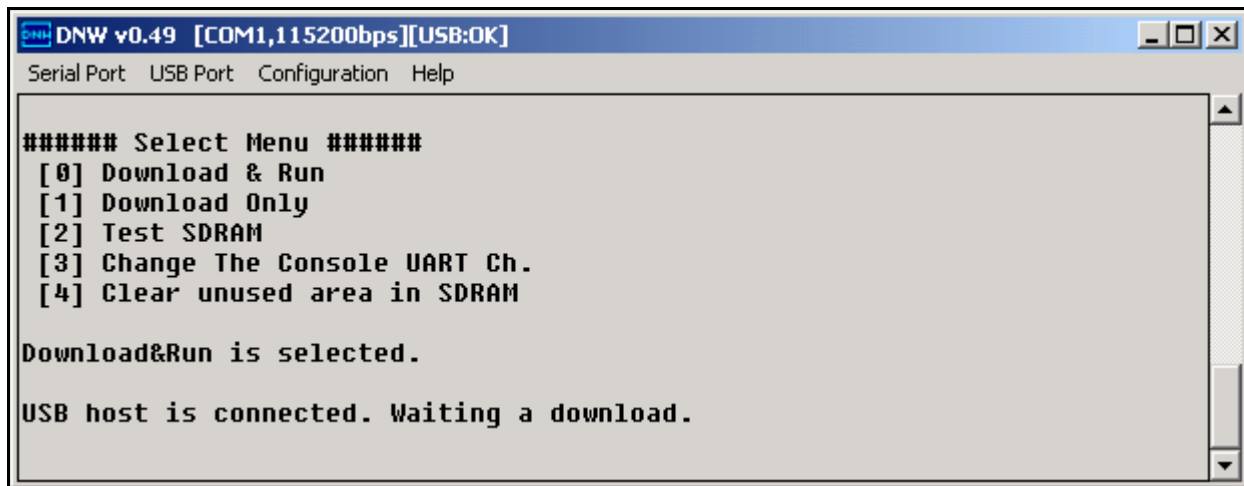


Figure 4-5 Download & Run

8. From the 'USB Port' menu, please select the 'Transmit' option and the following window will appear on your screen. Now please select the EBOOT.nb0 file from the 'X:\WINCE420\public\ [Platform Name]\ReIDir\SAMSUNG_SMDK2440_ARMV4Release' directory and then click on the 'Open' button.

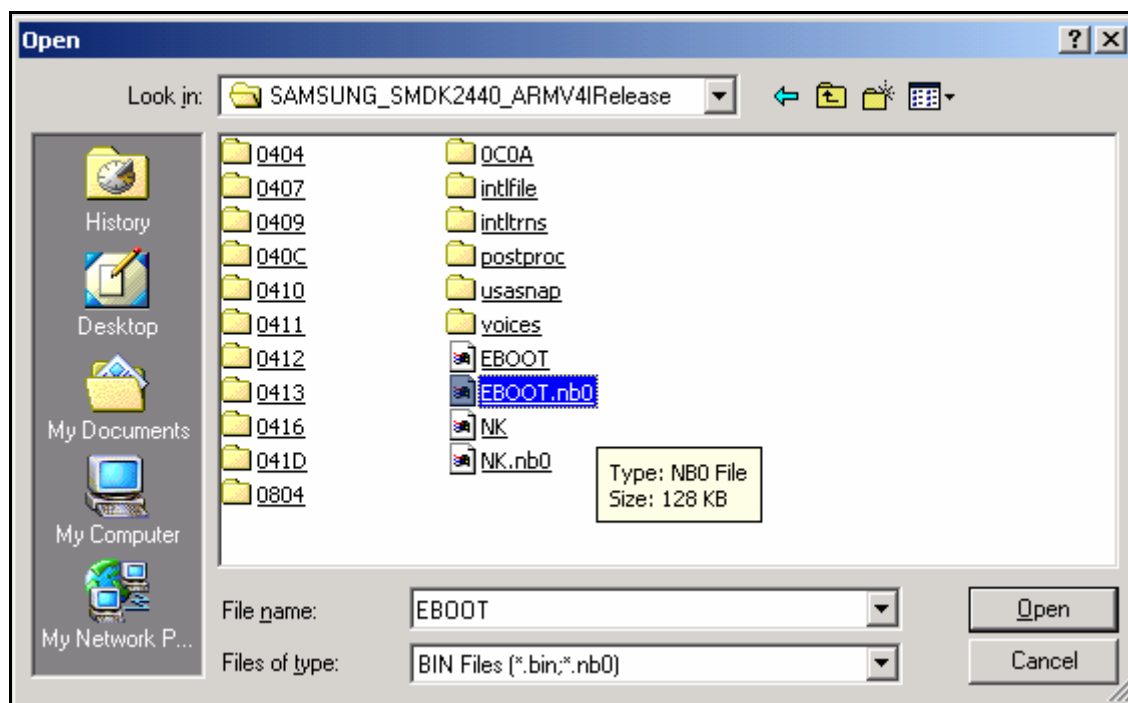
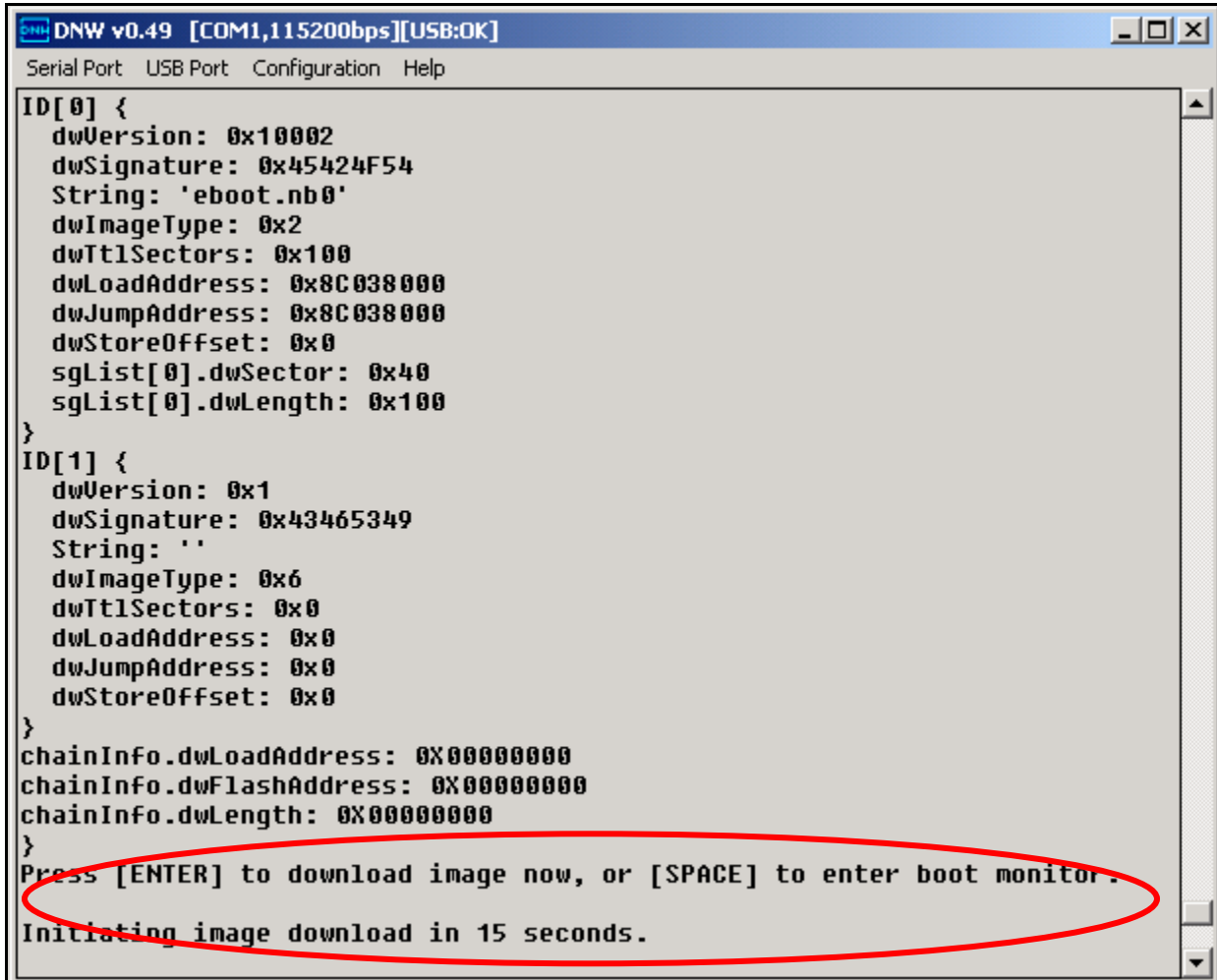


Figure 4-6 Downloading EBOOT.nb0

9. After the EBOOT.nb0 download is over, the following messages will appear in the DNW application window.



```

ID[0] {
  dwVersion: 0x10002
  dwSignature: 0x45424F54
  String: 'eboot.nb0'
  dwImageType: 0x2
  dwTtlSectors: 0x100
  dwLoadAddress: 0x8C038000
  dwJumpAddress: 0x8C038000
  dwStoreOffset: 0x0
  sgList[0].dwSector: 0x40
  sgList[0].dwLength: 0x100
}
ID[1] {
  dwVersion: 0x1
  dwSignature: 0x43465349
  String: ''
  dwImageType: 0x6
  dwTtlSectors: 0x0
  dwLoadAddress: 0x0
  dwJumpAddress: 0x0
  dwStoreOffset: 0x0
}
chainInfo.dwLoadAddress: 0X00000000
chainInfo.dwFlashAddress: 0X00000000
chainInfo.dwLength: 0X00000000
}
Press [ENTER] to download image now, or [SPACE] to enter boot monitor.
Initiating image download in 15 seconds.

```

Figure 4-7 After EBOOT.nb0 Download

10. Please hit the 'SPACE BAR' key to configure the Boot loader options.

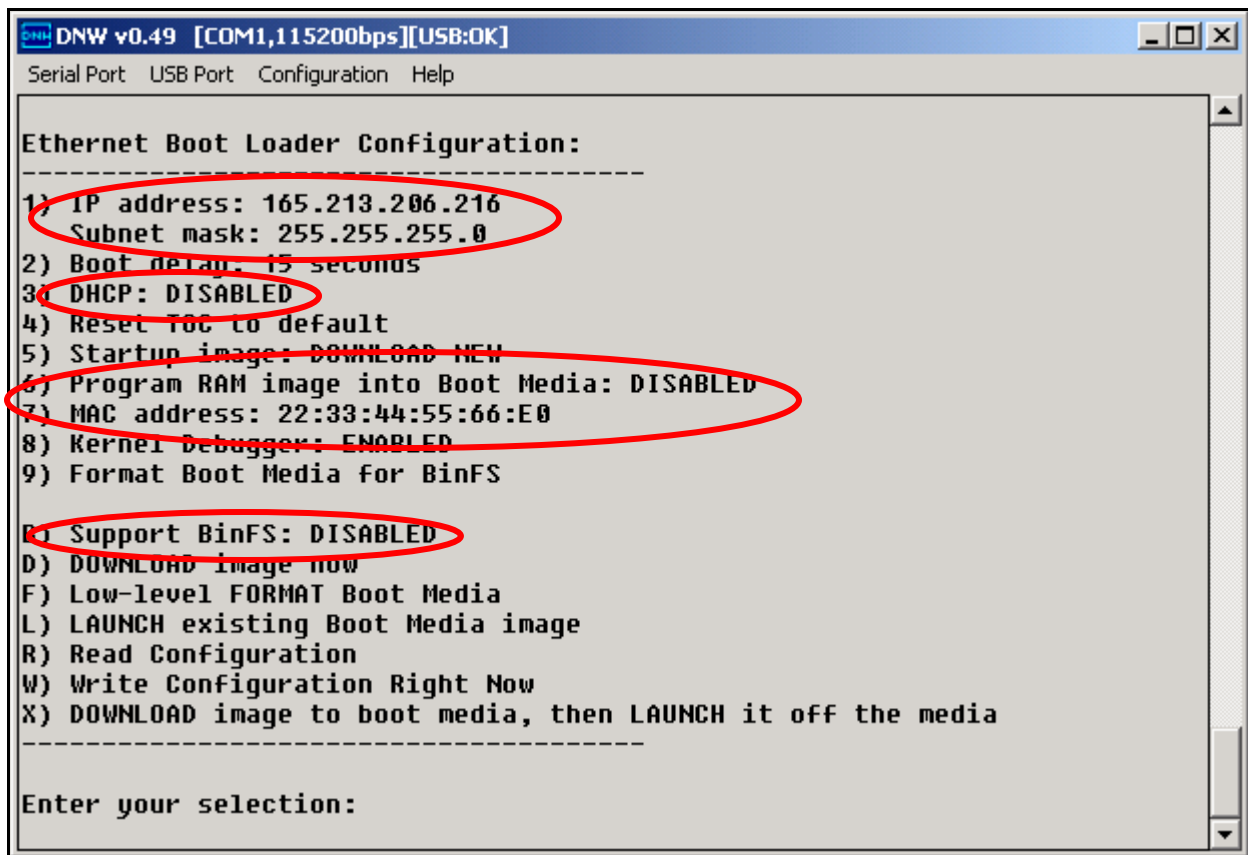


Figure 4-8 Ethernet Boot Loader Configurations

11. Configure the Ethernet Boot loader as follows by entering the respective options:

- [4] Reset TOC to default
- [1] Enter S3C2440A Board IP address and subnet mask
- [3] DHCP: **DISABLED**
- [6] Program RAM Image into Boot Media: **DISABLED**
- [7] MAC Address: **22.33.44.55.66.e0**
- [B] Support BinFS: **DISABLED**

12. Please perform the following tasks before you start downloading the OS image on the target board.

- Please check the IP address of the board.
- Change the IP address on your Host PC in the TCP/IP properties.
- You have to set the IP address and Subnet Mask manually in the TCP/IP properties. E.g. if the Target Board IP Address is 165.213.206.216, then set Host PC IP address as 165.213.206.213. Set the subnet mask as 255.255.255.0.

13. In the Platform Builder window, please select 'Configure Remote Connection...' option from the 'Target' menu as shown below in the figure 4-9. The Configure Remote Connection window will appear on your screen as shown in the figure 4-10.

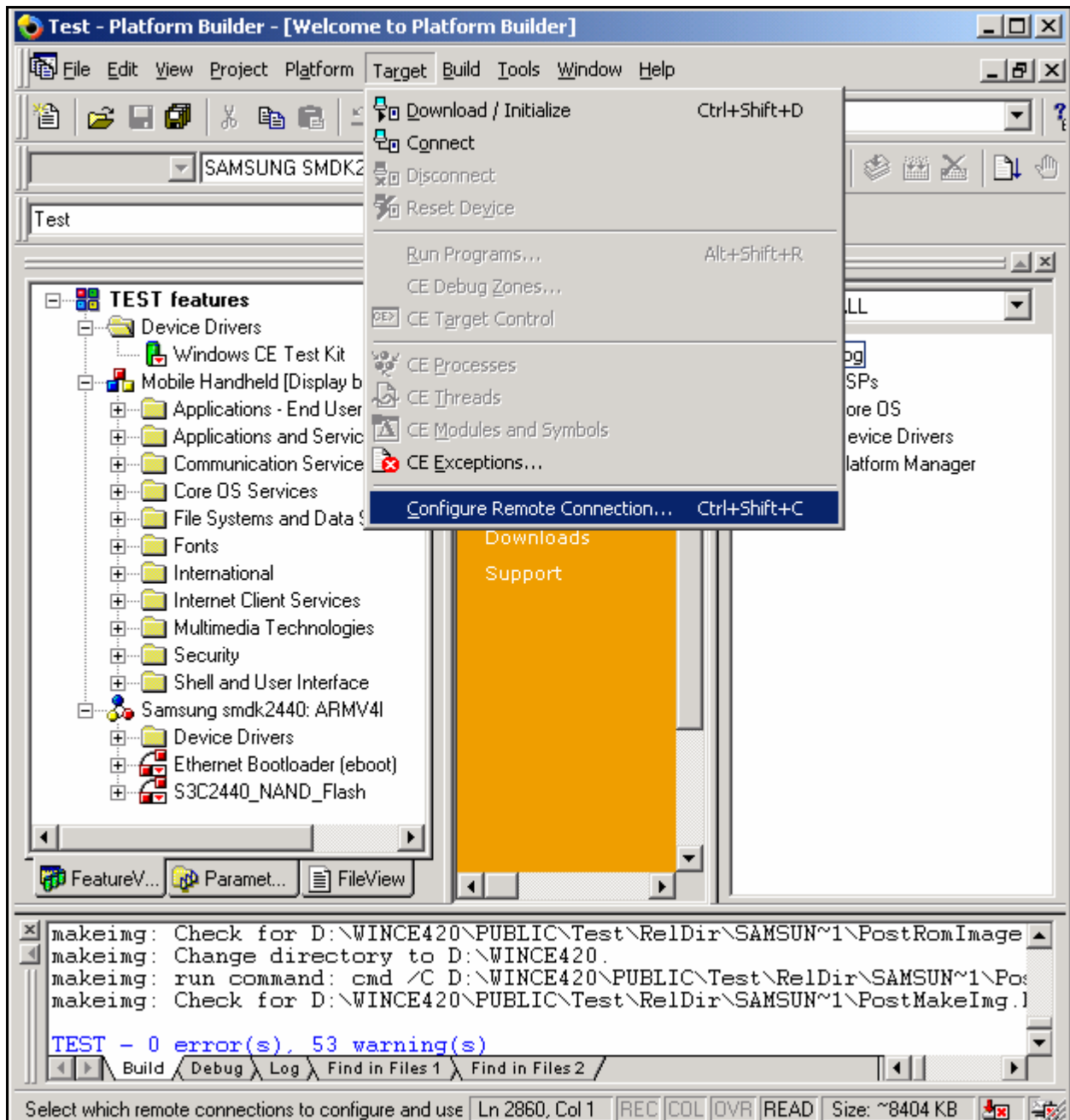


Figure 4-9 Configuring Remote Connection

14. From the **Configuration Remote Connection** window, please select 'Ethernet' option from the 'Download' drop down menu box and then click on the 'Configure' button. **Configure Ethernet Download Service** window will appear on your screen as shown in the figure 4-11. Please select the device and then click on the 'OK' button.

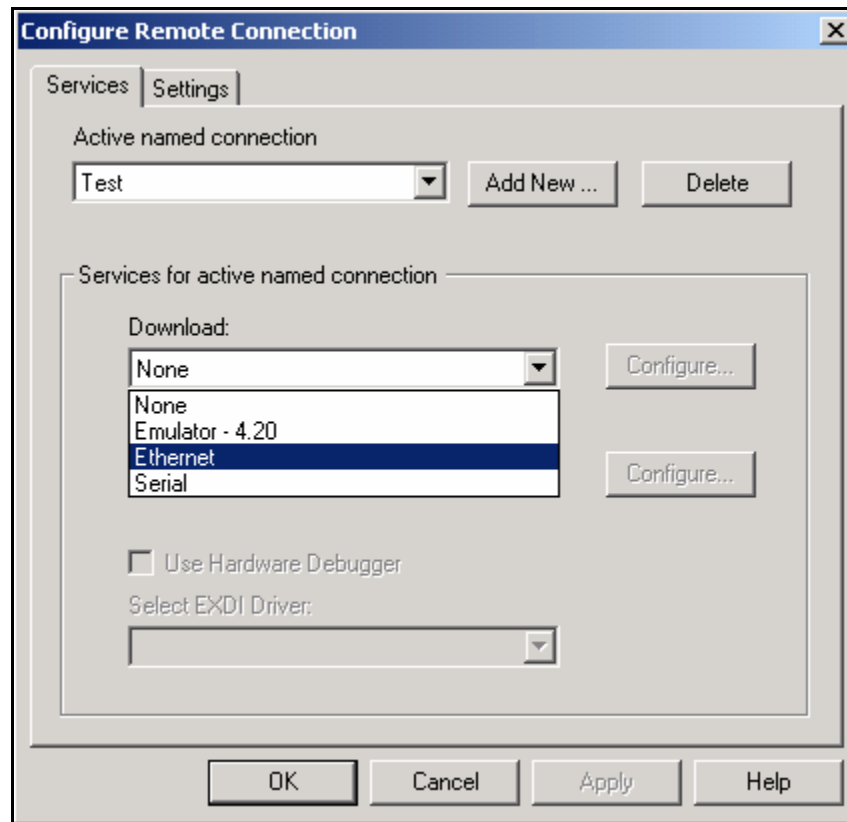


Figure 4-10 Configure Remote Connection - Download

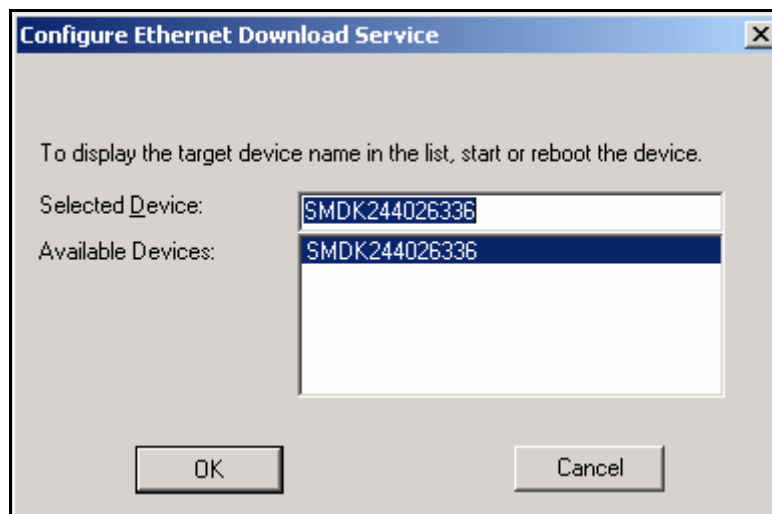


Figure 4-11 Configure Ethernet Download Service

15. Now please configure the 'Ethernet' option in the 'Kernel Transport' drop down menu box by following the same procedure used for configuring the 'Ethernet' option in the 'Download' drop down menu box.

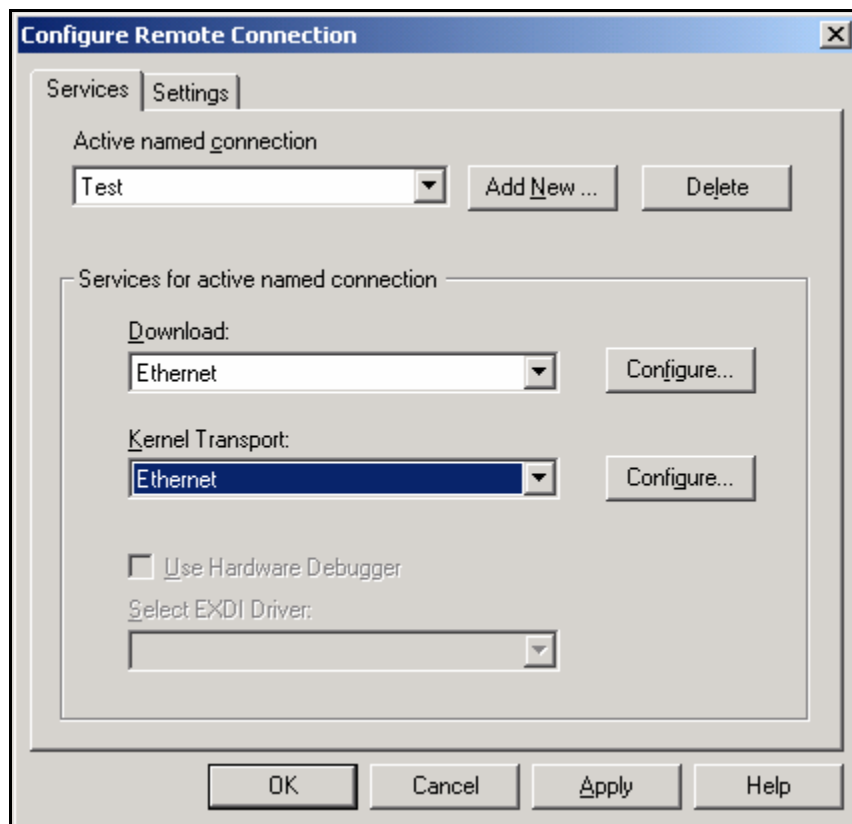


Figure 4-12 Configure Remote Connection - Kernel Transport

16. Please click on the 'Apply' button first and then click on the 'OK' button to complete the Remote Connection configuration.
17. In the Platform Builder window, please select the 'Download/Initialize' option from the 'Target' menu.
18. In the DNW application window, please enter 'D' to download the OS Image. NK.bin image, which exists in 'X:\WINCE420\PUBLIC\ [Platform Name] \Reidir\SAMSUNG_SMDK2440_ARMV4Release' directory will start to download on to the target board through the Ethernet as shown in the figure 4-13.

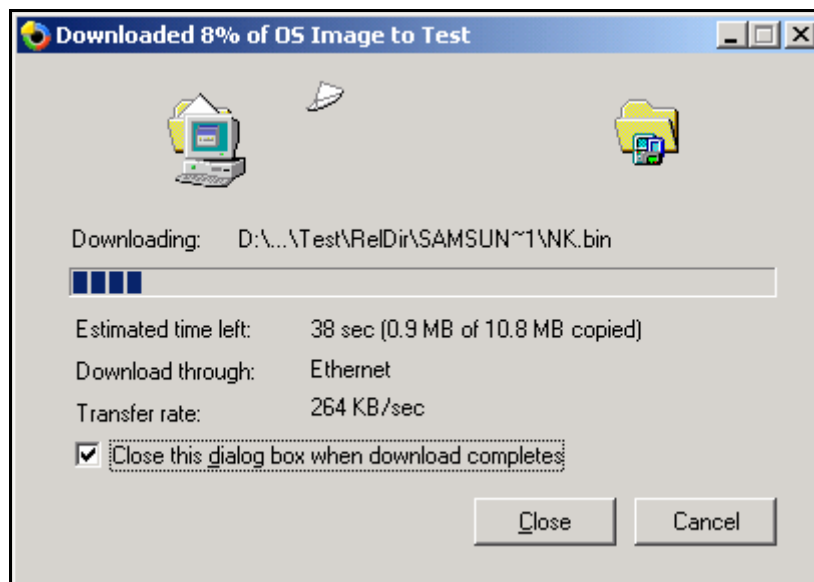


Figure 4-13 Downloading NK.bin to Target Board

19. You can see the following message on the DNW application window during NK.bin image download.

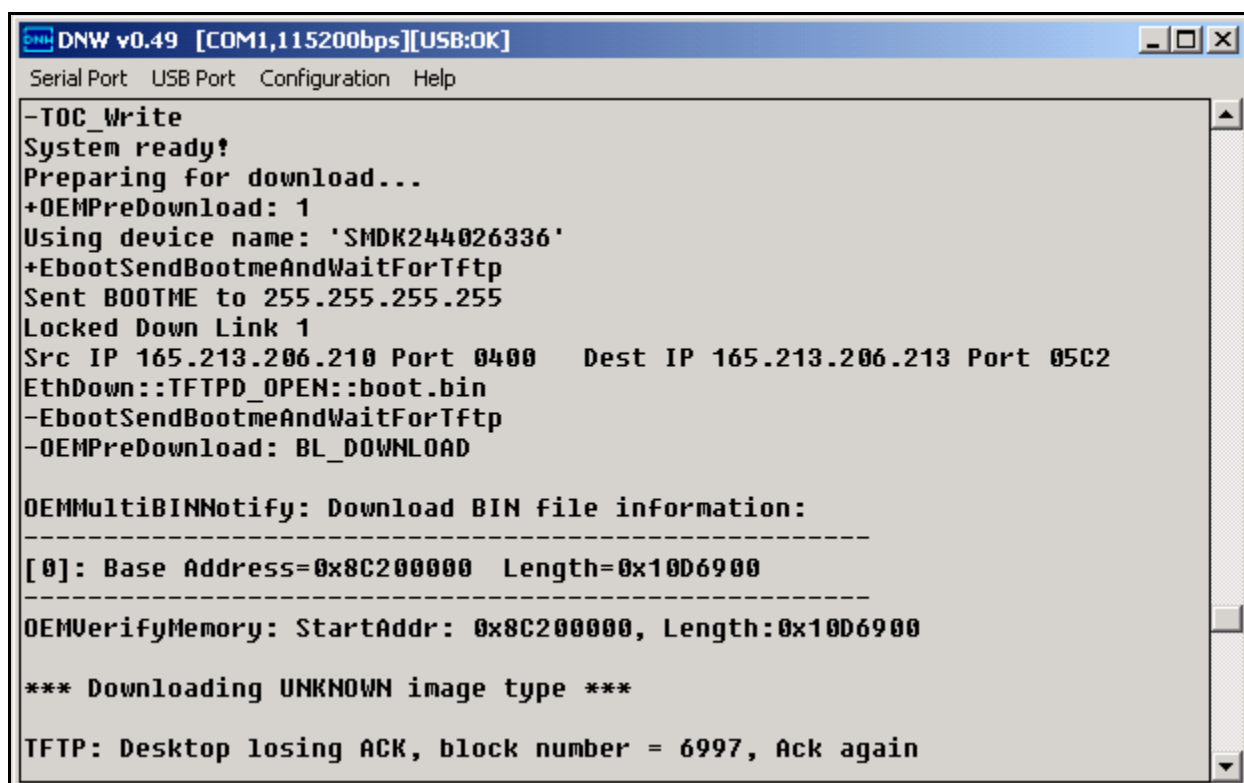
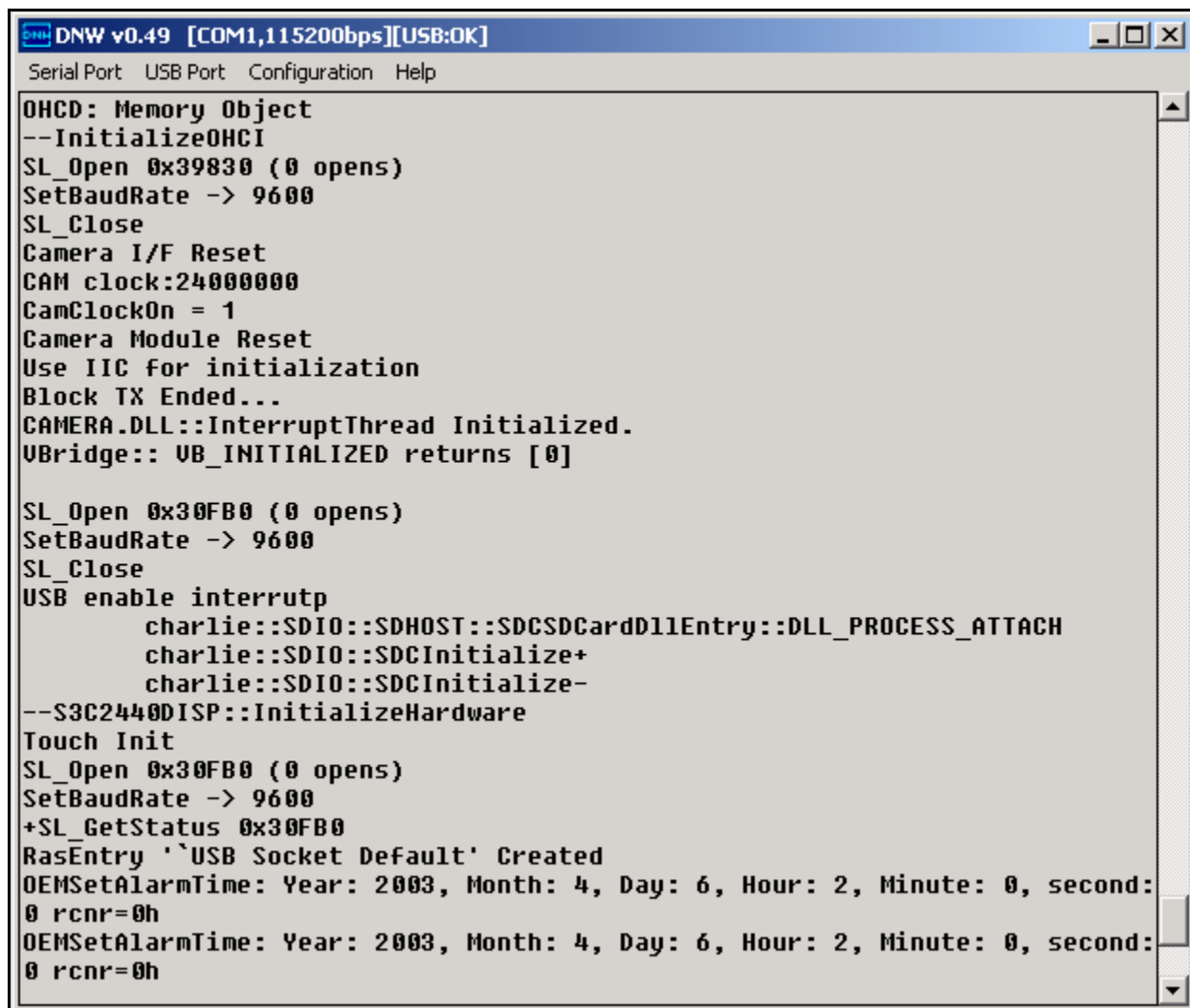


Figure 4-14 Messages via UART Port During NK.bin Download

20. Once the image is successfully downloaded, the DNW application window will show the following message and Windows CE .NET will boot on the target board.



```

DNW v0.49 [COM1,115200bps][USB:OK]
Serial Port  USB Port  Configuration  Help

OHCD: Memory Object
--InitializeOHCI
SL_Open 0x39830 (0 opens)
SetBaudRate -> 9600
SL_Close
Camera I/F Reset
CAM clock:24000000
CamClockOn = 1
Camera Module Reset
Use IIC for initialization
Block TX Ended...
CAMERA.DLL::InterruptThread Initialized.
VBridge:: VB_INITIALIZED returns [0]

SL_Open 0x30FB0 (0 opens)
SetBaudRate -> 9600
SL_Close
USB enable interrupt
    charlie::SDIO::SDHOST::SDCSDCardDllEntry::DLL_PROCESS_ATTACH
    charlie::SDIO::SDCInitialize+
    charlie::SDIO::SDCInitialize-
--S3C2440DISP::InitializeHardware
Touch Init
SL_Open 0x30FB0 (0 opens)
SetBaudRate -> 9600
+SL_GetStatus 0x30FB0
RasEntry ``USB Socket Default' Created
OEMSetAlarmTime: Year: 2003, Month: 4, Day: 6, Hour: 2, Minute: 0, second:
0 rcnr=0h
OEMSetAlarmTime: Year: 2003, Month: 4, Day: 6, Hour: 2, Minute: 0, second:
0 rcnr=0h
  
```

Figure 4-15 Messages via UART Port After Booting WinCE 4.2

5 Running the Image using USB Download

1. Before you download the WINCE Image through the USB, you must have 'u241mon.bin' image on your AMD Flash. For more information check the *Application note* session 2.3 on homepage.
2. Please install the USB Driver and 'DNW.exe' application on your host PC.
3. After installing the USB drivers, please run 'dnw.exe' from the host PC. The following window will appear on your screen.

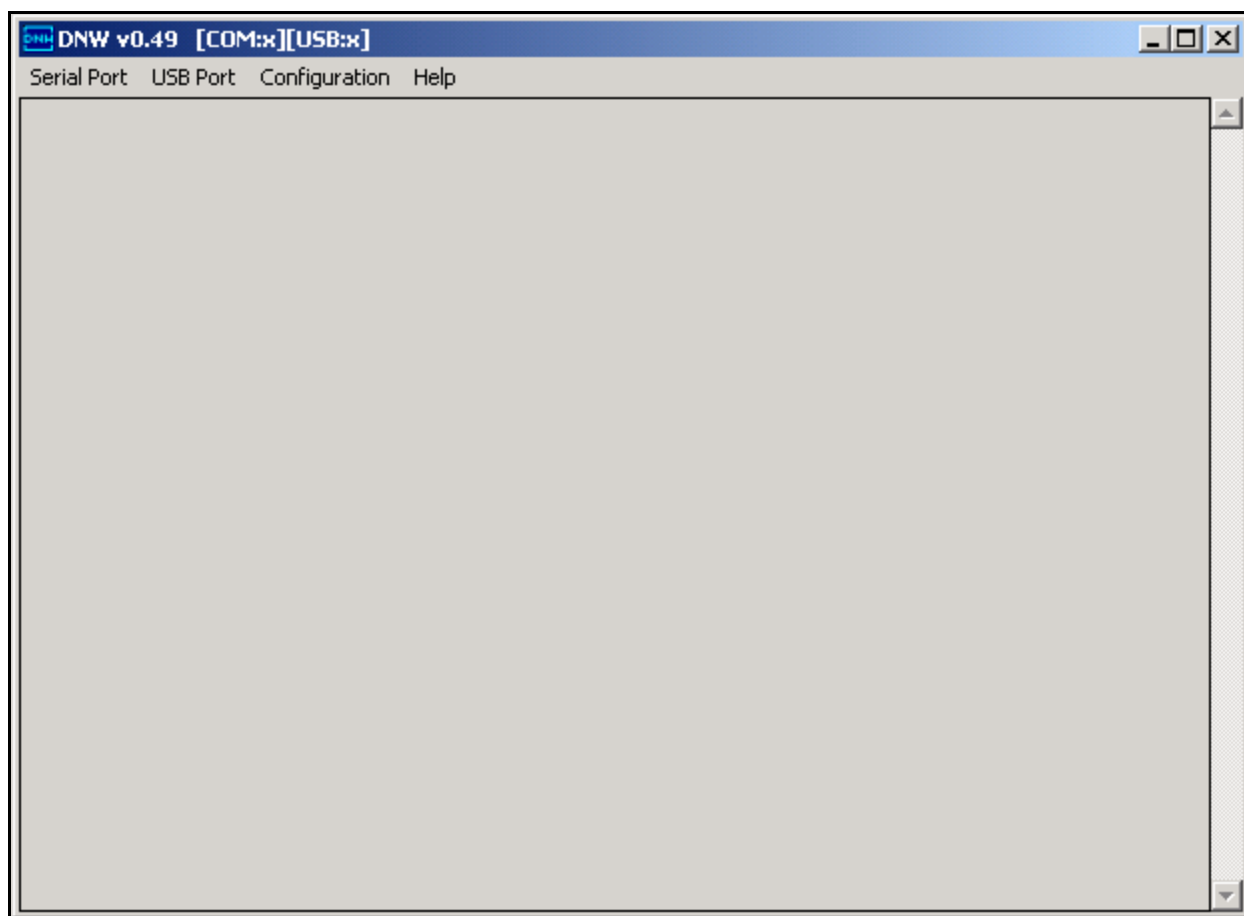


Figure 5-1 DNW Window

4. Now select 'Options' from the 'Configuration' menu to set the UART/USB options. The following window will appear on your screen. Select the Baud Rate and COM Port as shown in the figure 5-2, enter the download address as '0x30200000' and then click on the 'OK' button to continue.

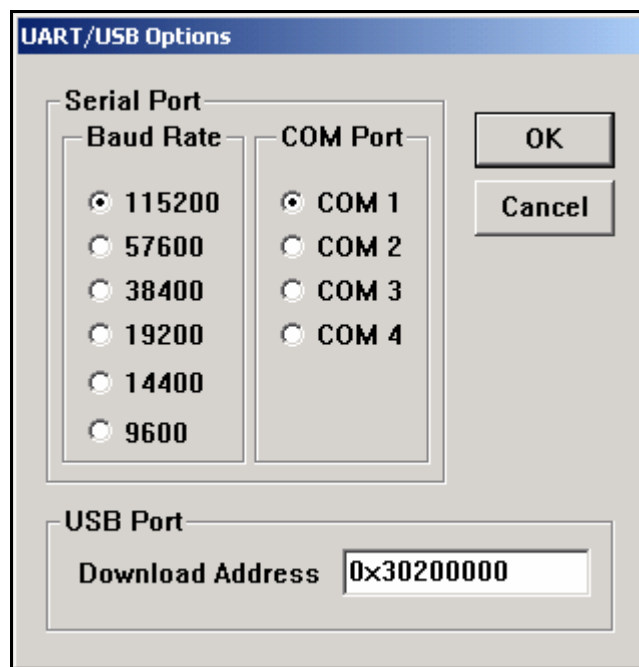


Figure 5-2 UART/USB Options

5. Switch ON the board and press any key. The DNW application window will now appear on your screen as shown below in the figure 5-3.

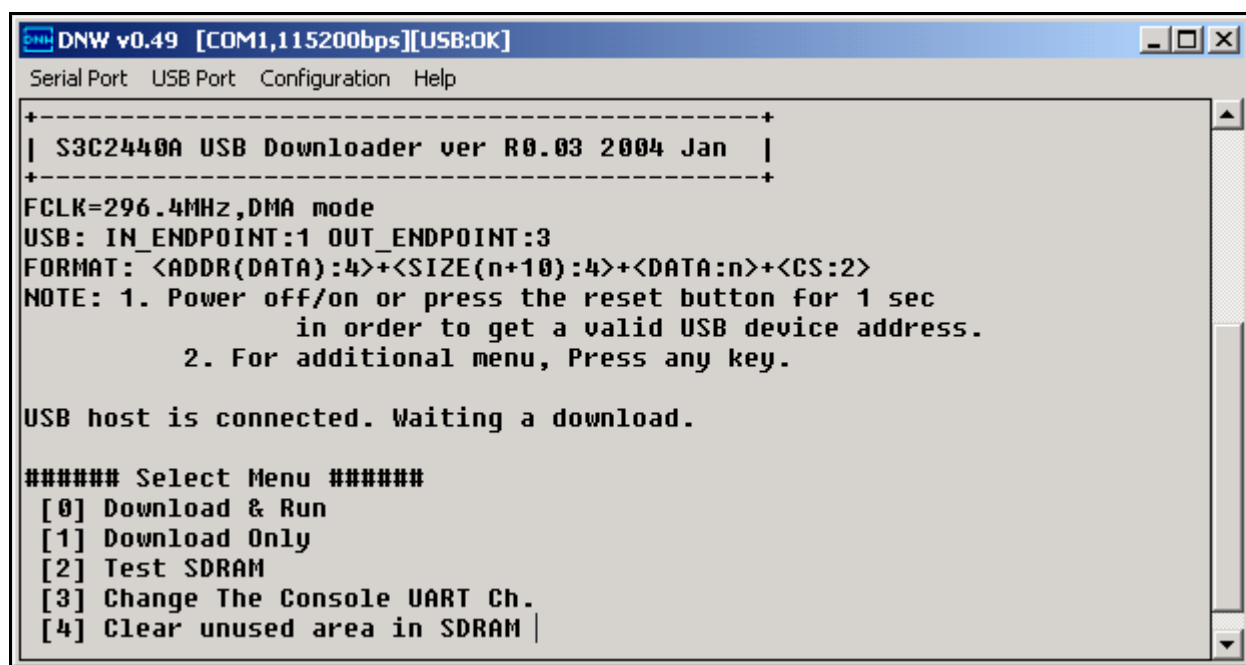


Figure 5-3 DNW Window After Board Power ON

Note: The SMC card must be present on the board.

6. Please enter '2' to check whether SDRAM can Read and Write. Now the DNW application window will appear as shown below in the figure 5-4.

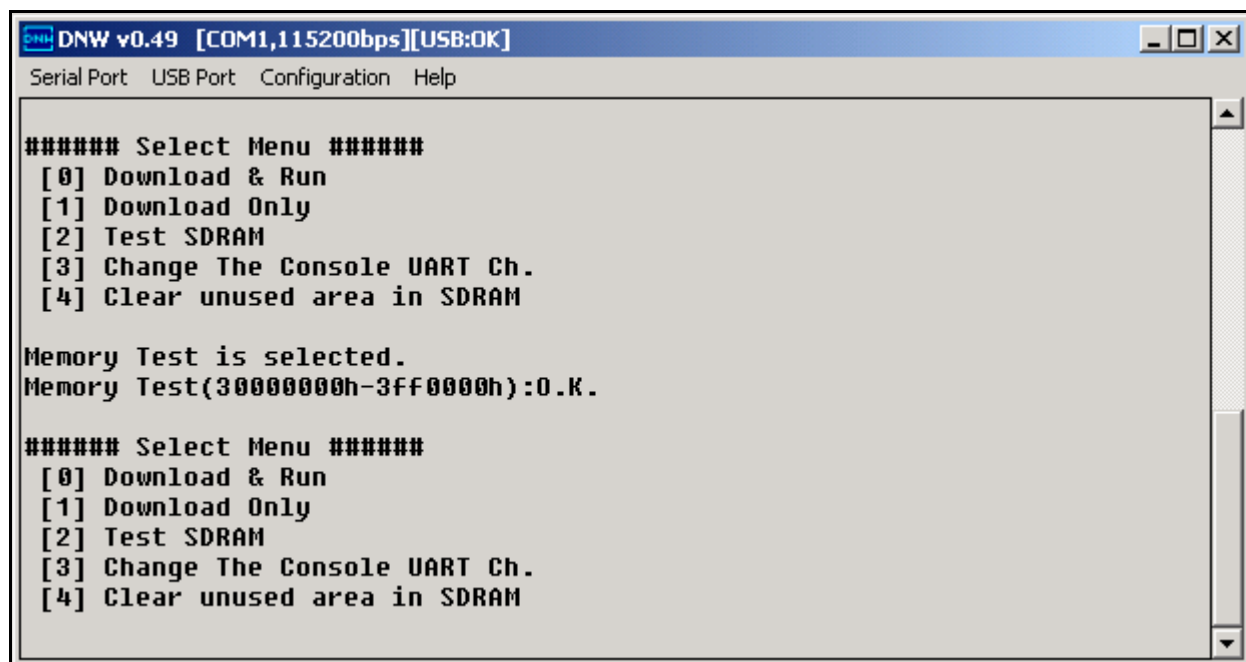


Figure 5-4 SDRAM Test

7. Please enter '0' to Download and Run the Image on the board. The DNW application window will now appear on your screen as shown below in the figure 5-5.

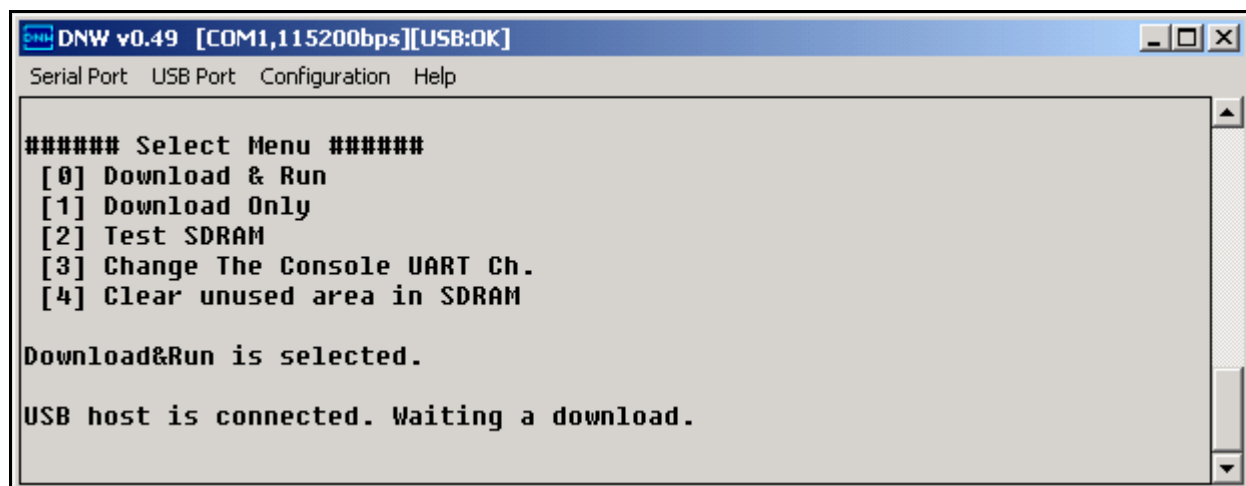


Figure 5-5 Download & Run

8. From the 'USB Port' menu, please select the 'Transmit' option and the following window will appear on your screen. Now please select the NK.nb0 file from the 'X:\WINCE420\public\ [Platform Name]\RelDir\SAMSUNG_SMDK2440_ARMV4IRelease' directory and then click on the 'Open' button.

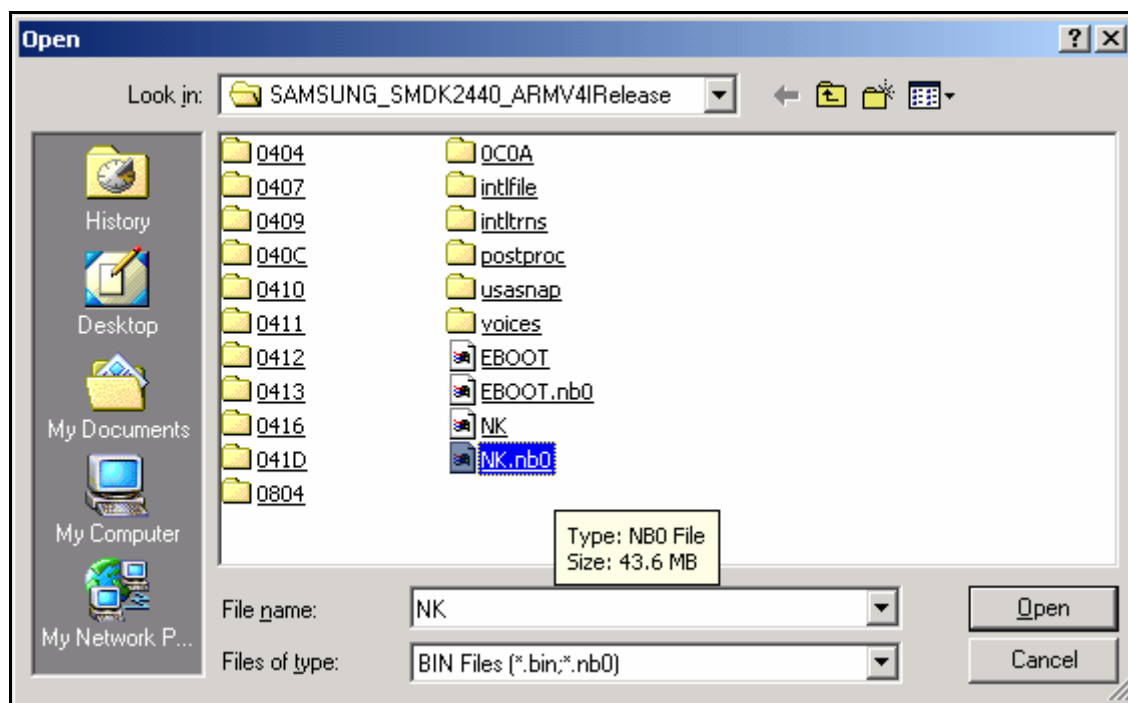


Figure 5-6 Downloading NK.nb0

9. Once the download process begins, a download status bar will appear on your screen as shown below in the figure 5-7.

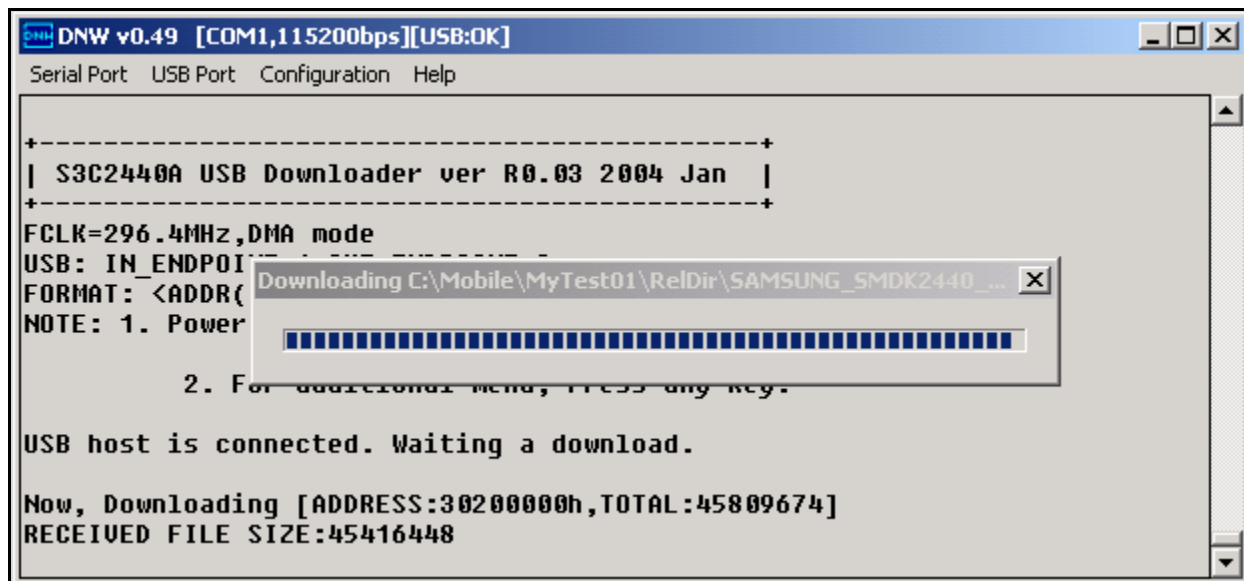


Figure 5-7 Downloading Status of NK.nb0

10. After 'NK.nb0' download is over, Windows CE .NET will boot on the target Board.

6 Downloading Image on SMC NAND Flash

1. Insert the SMC card in CON1 (SMC slot) on the target board and short pin numbers 1 and 2 of jumper 'J1' and jumper 'J4' and pin numbers 2 and 3 of jumper 'J2' and jumper 'J3'.
2. Run DNW.exe application and Power ON the Board.
3. Please select the 'Connect' option from the 'Serial Port' menu. Reset the board and select '2' to check whether SDRAM can Read and Write. Now the DNW application window will appear as shown below in the figure 6-1.

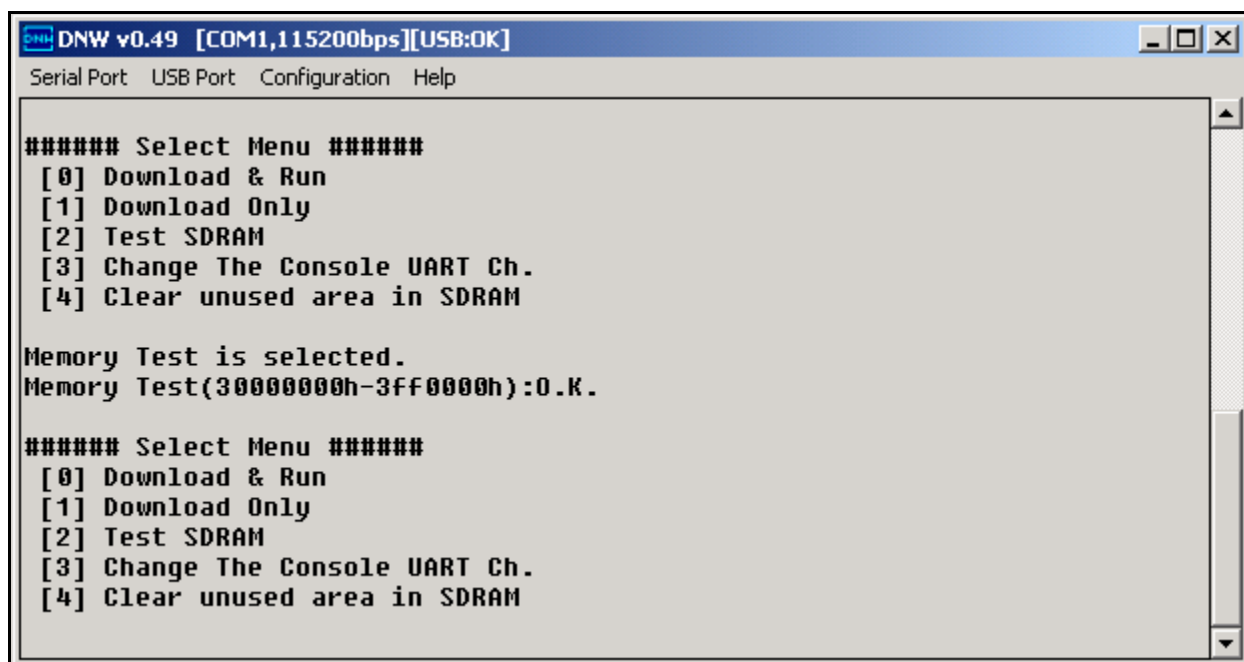


Figure 6-1 SDRAM Status

4. Please enter '1' for downloading the Image on the board. The following message will now appear on the DNW application window. Enter new temporary download address as '0x30100000'.

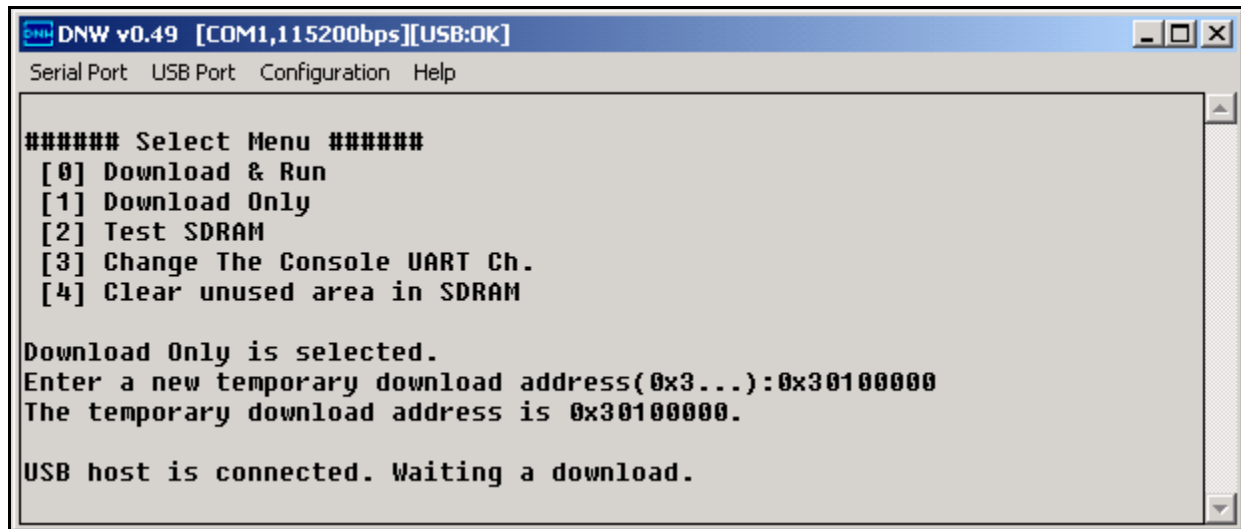


Figure 6-2 Setting Download Address for 2440loader.bin

5. From the 'USB Port' menu, please select the 'Transmit' option and the following window will appear on your screen. Now please select the '2440loader.bin' file from the 'X:\WINCE420\PLATFORM\SMDK2440\NBOOT' directory and then click on the 'Open' button.

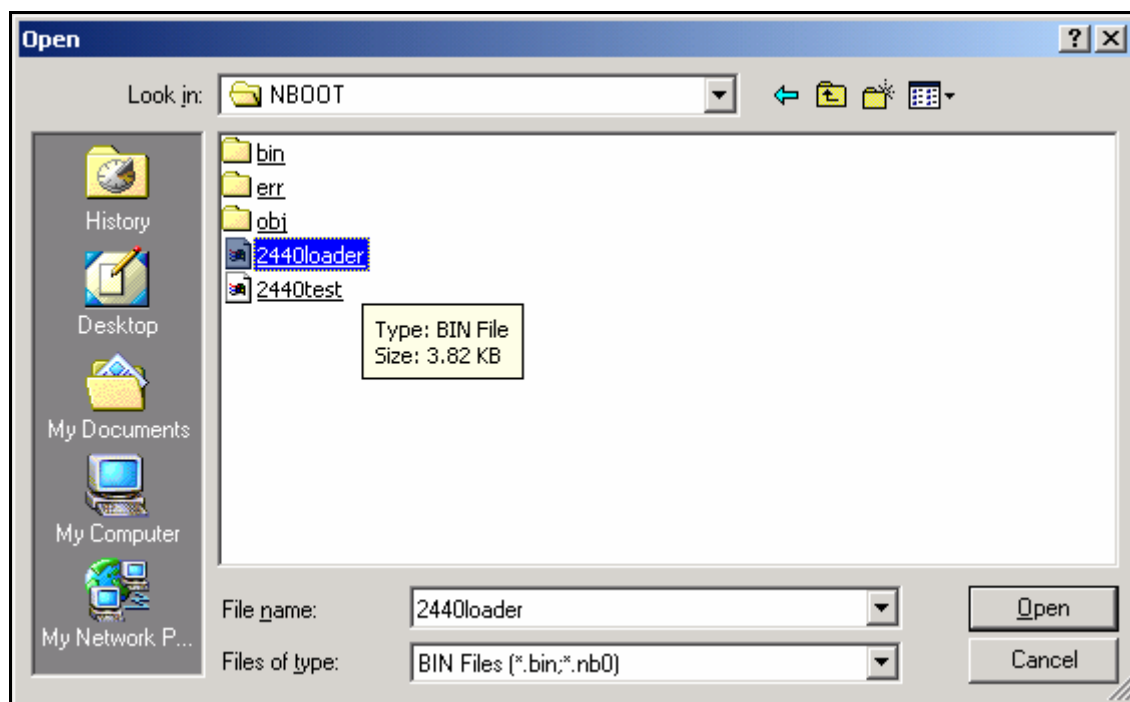


Figure 6-3 Selecting 2440loader.bin File for Download

6. Now select the 'Options' from the 'Configuration' menu in the DNW application window to set the UART/USB options. The following window will appear on your screen. Select the Baud Rate and COM Port as shown in the figure 6-4, enter the download address as '0x30000000' and then click on the 'OK' button to continue.

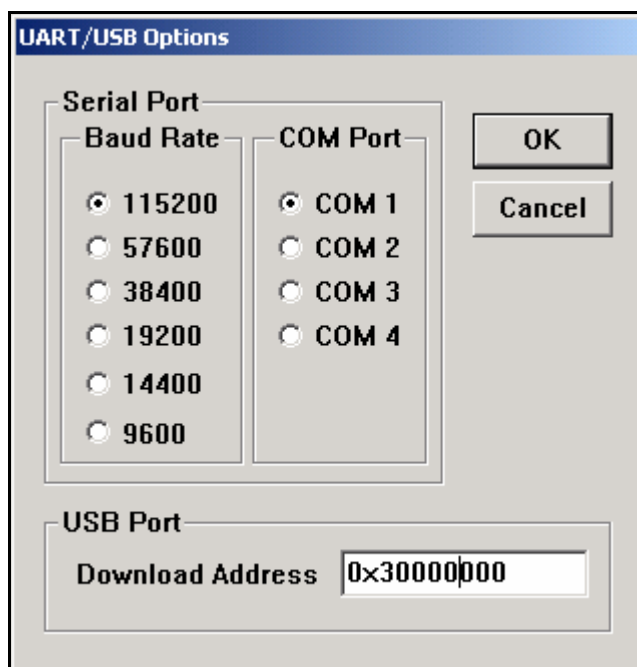


Figure 6-4 UART/USB Options

7. Please enter '0' to Download and Run the Image on the board. The DNW application window will now appear on your screen as shown below in the figure 6-5.

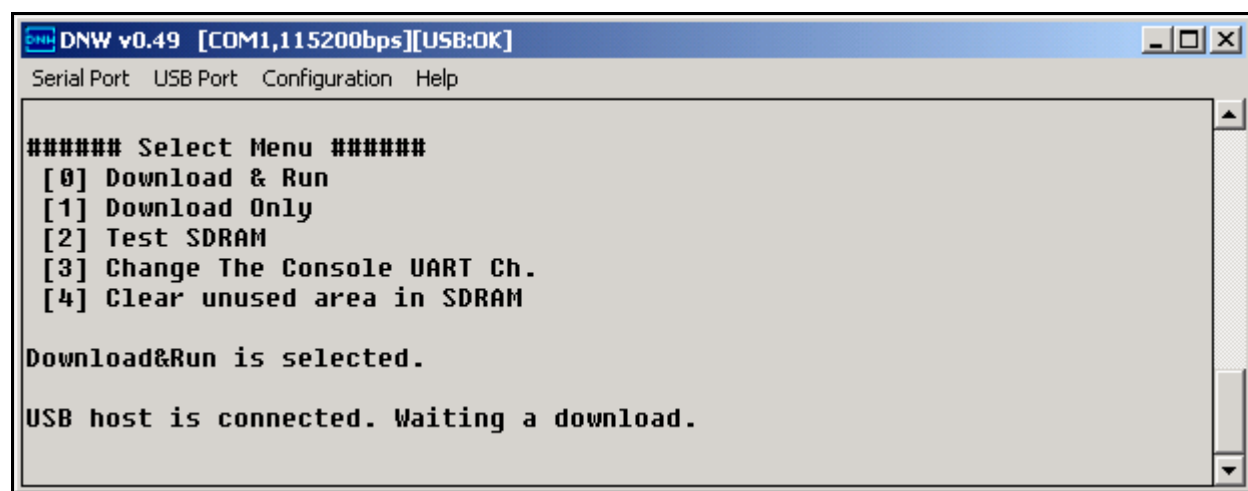


Figure 6-5 Download & Run

8. From the 'USB Port' menu, please select the 'Transmit' option and the following window will appear on your screen. Now please select the '2440test.bin' file from the 'X:\WINCE420\PLATFORM\SMDK2440\NBOOT' directory and then click on the 'Open' button.

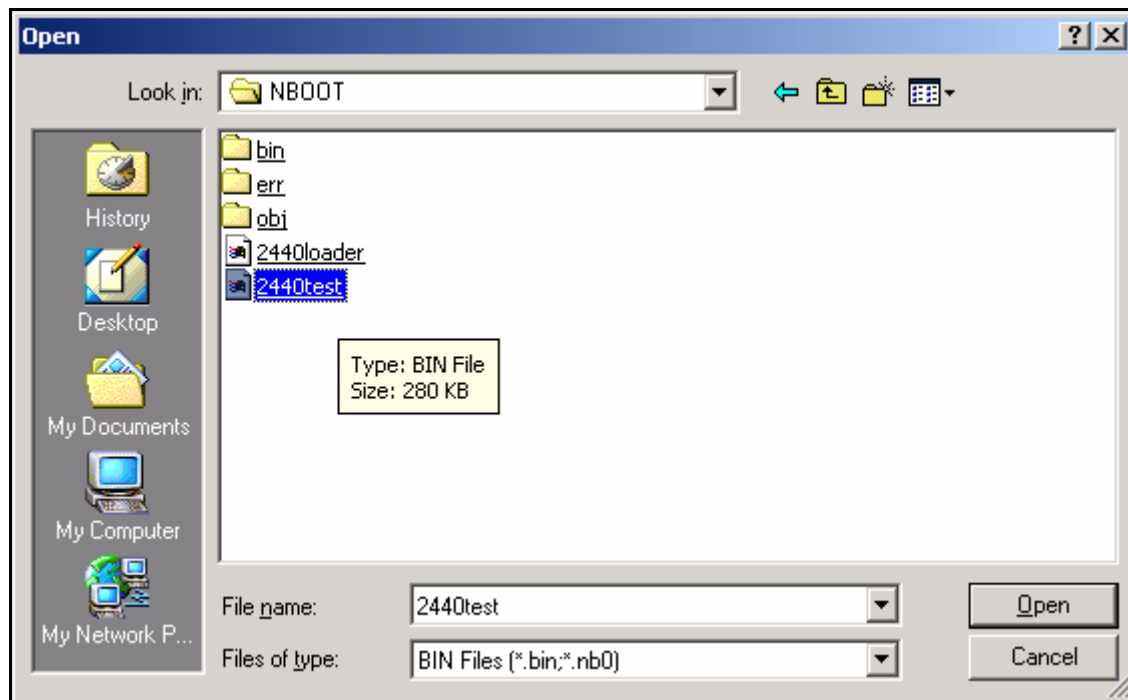


Figure 6-6 Selecting 2440test.bin for Download

9. After image download is over, you can see the following message in the DNW application window. If you are not able to see then please change the UART port and hit the 'ENTER' key.

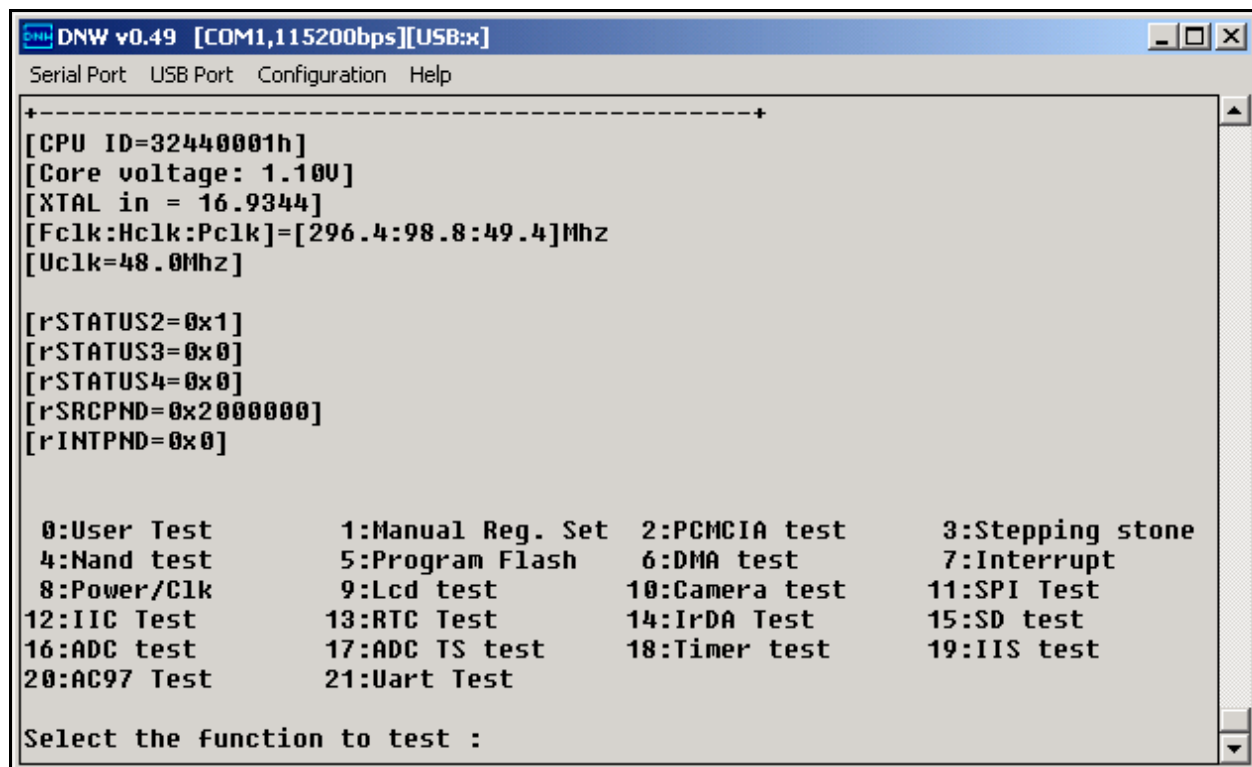


Figure 6-7 Selecting the Function to Test

10. Please enter '4' for 'NAND test' operation and then press the 'Enter' key. Now you will have to select the NAND flash type. Here we use Normal NAND flash, so please enter '1'.

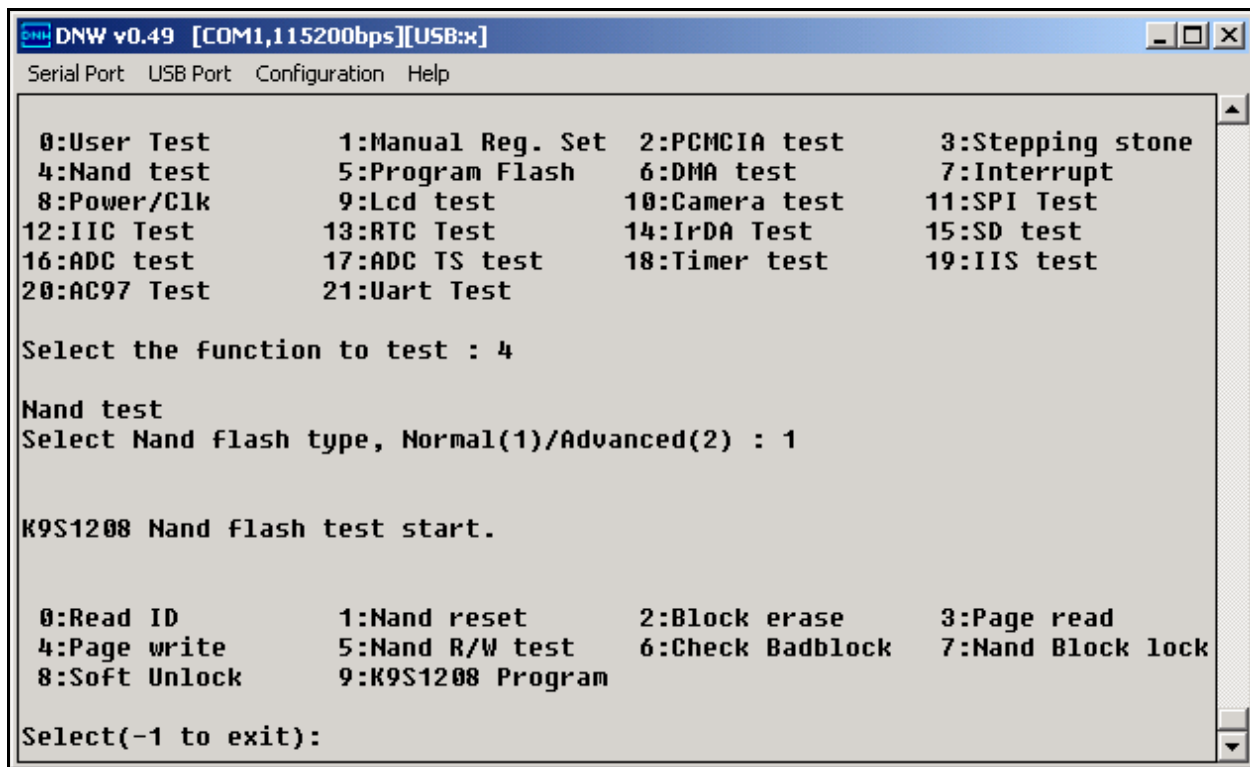


Figure 6-8 Selecting NAND Flash Type

11. Please enter '6' for 'Check Badblock' operation. There should not be any bad block in your SMC card. If there is some bad block, try to remove them by performing the 'Block Erase' operation.
12. Please enter '2' for 'Block Erase' operation.
Enter Block # to erase: 0
13. Please enter '3' for 'Page read' operation
Enter Block # to read: 0
Enter Page # to read: 0
All the memory should read 'FF'

14. Please enter '9' for 'K9S1208_Program' operation
Enter Input target block number: 0
Enter Input program file size(bytes): 0x20000

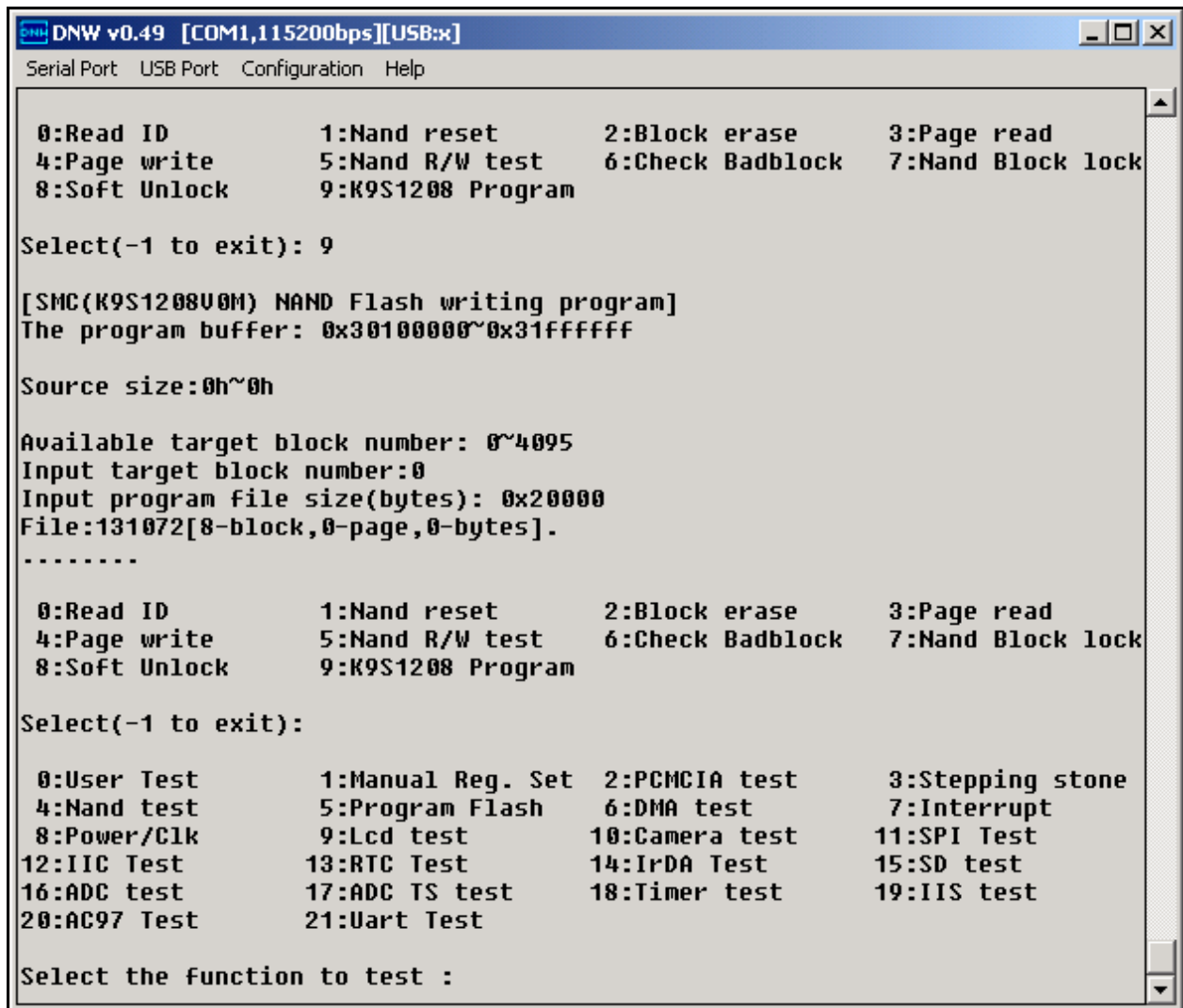


Figure 6-9 Input Target Size

15. Finally hit the 'Enter' or press '-1' key to Quit.
16. Now the SMC (Smart Media Card) contains the Boot loader Image. Please restart the board.

17. Now select 'Options' from 'Configuration' menu in the DNW application window to set the UART/USB options. The following window will appear on your screen. Select the Baud Rate and COM Port as shown in the figure 6-10, enter the download the address as '0x30038000' and then click the 'OK' button to continue.

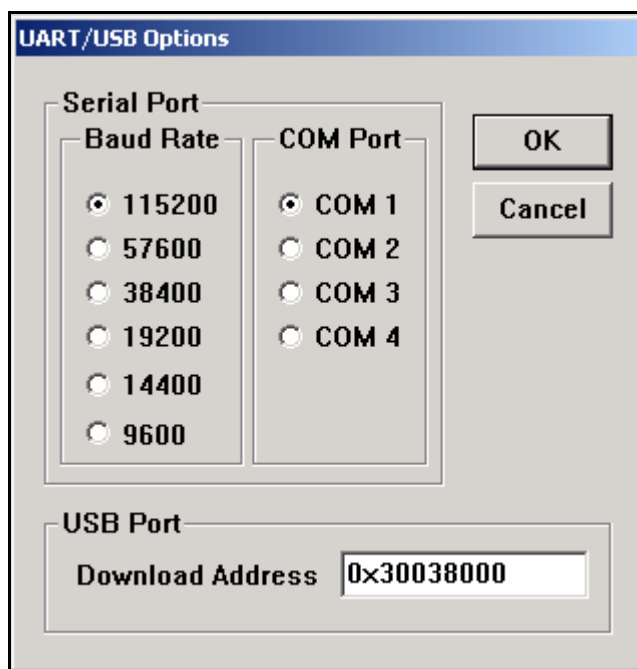


Figure 6-10 UART/USB Options

18. Please enter '0' to Download and Run the Image on the board. The DNW application window will now appear on your screen as shown below in the figure 6-11.

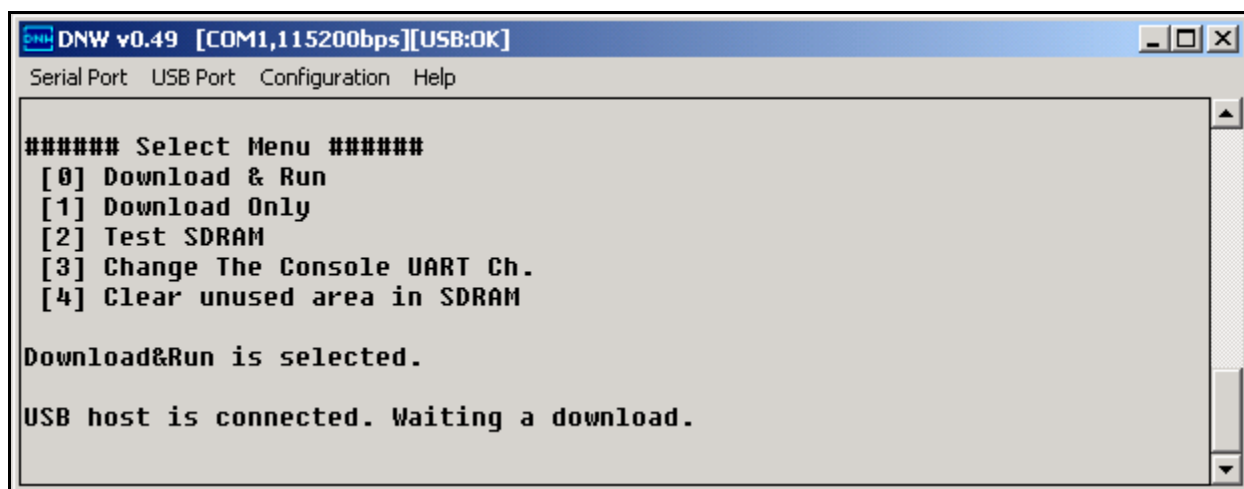


Figure 6-11 Download & Run

19. From the USB Port menu, please select the Transmit option and the following window will appear on your screen. Now please select the 'EBOOT.nb0' file from the 'X:\WINCE420\public\ [Platform Name]\ReIDir\SAMSUNG_SMDK2440_ARMV4IRelease' directory and then click on the 'Open' button.

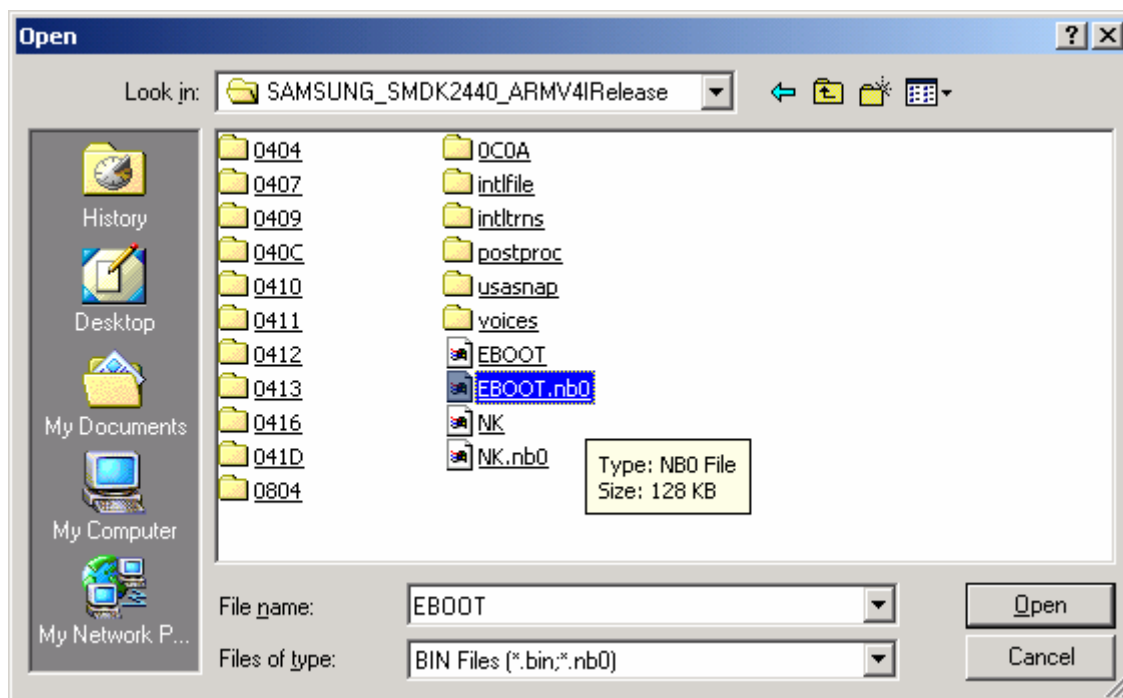
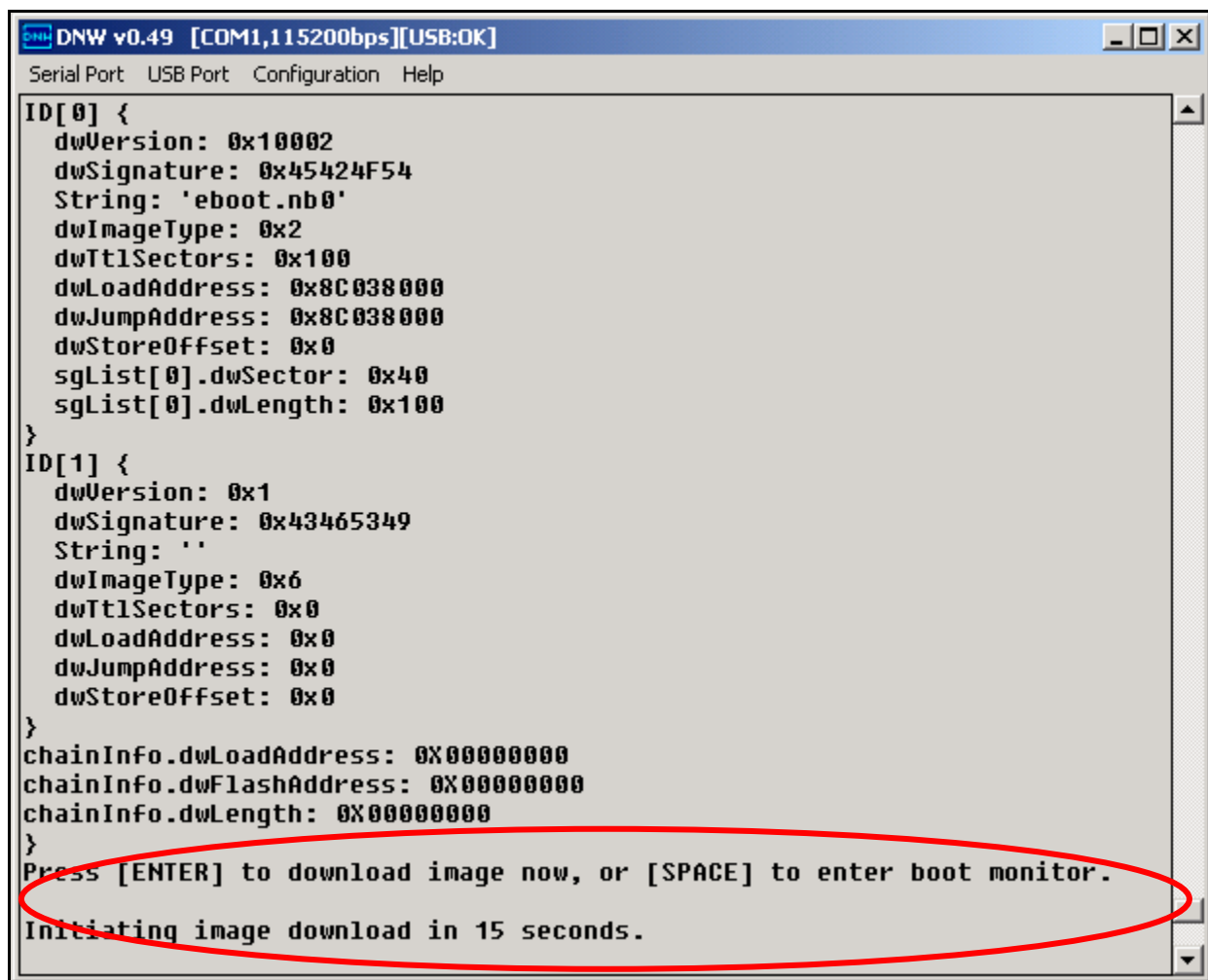


Figure 6-12 Selecting EBOOT.nb0 for Download

20. After image download is over, you can see the following message in the DNW application window.



```

DNW v0.49 [COM1,115200bps][USB:OK]
Serial Port  USB Port  Configuration  Help

ID[0] {
  dwVersion: 0x10002
  dwSignature: 0x45424F54
  String: 'eboot.nb0'
  dwImageType: 0x2
  dwTtlSectors: 0x100
  dwLoadAddress: 0x8C038000
  dwJumpAddress: 0x8C038000
  dwStoreOffset: 0x0
  sgList[0].dwSector: 0x40
  sgList[0].dwLength: 0x100
}
ID[1] {
  dwVersion: 0x1
  dwSignature: 0x43465349
  String: ''
  dwImageType: 0x6
  dwTtlSectors: 0x0
  dwLoadAddress: 0x0
  dwJumpAddress: 0x0
  dwStoreOffset: 0x0
}
chainInfo.dwLoadAddress: 0X00000000
chainInfo.dwFlashAddress: 0X00000000
chainInfo.dwLength: 0X00000000
}
Press [ENTER] to download image now, or [SPACE] to enter boot monitor.
Initiating image download in 15 seconds.

```

Figure 6-13 Messages via UART Port After EBOOT.nb0 Download

21. Please press the 'SPACE BAR' key to configure the Ethernet boot loader configuration.

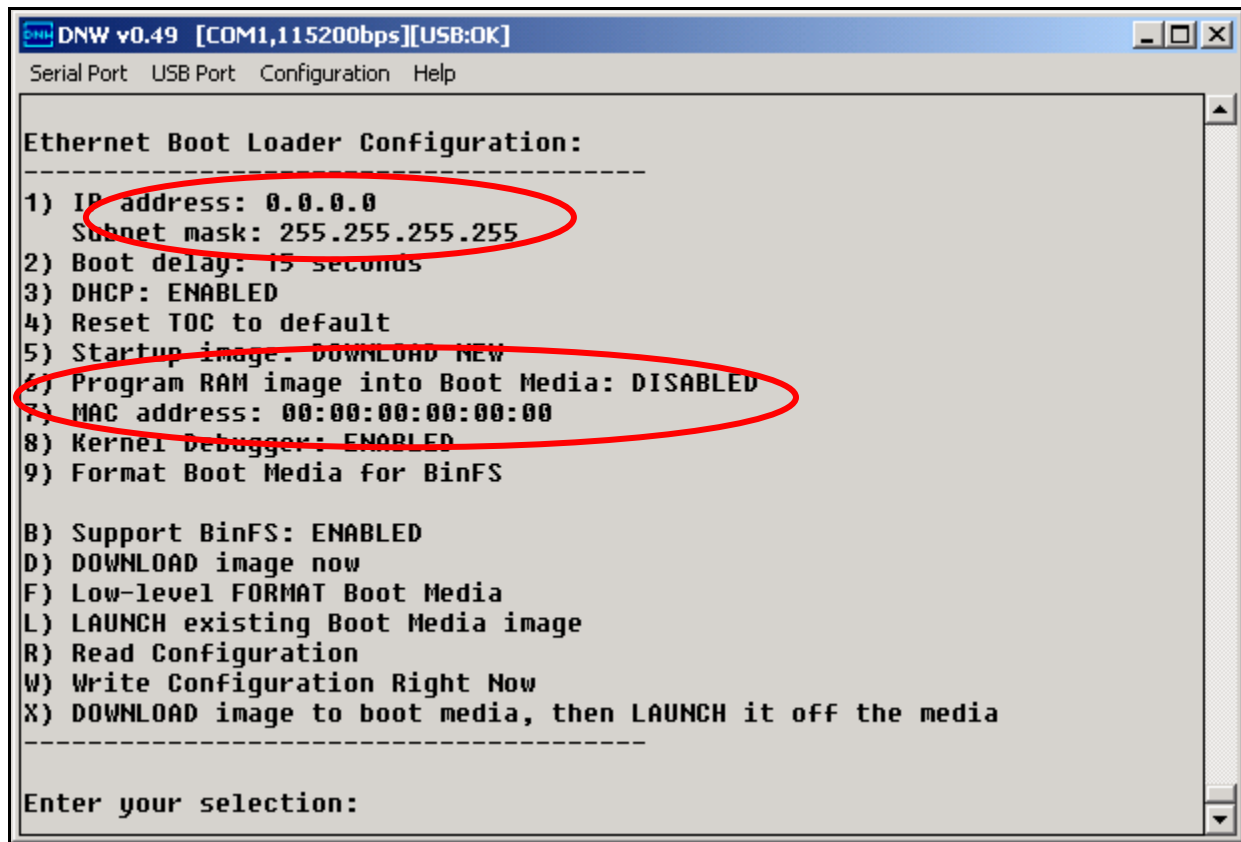


Figure 6-14 Ethernet Boot Loader Configurations

22. Configure the Ethernet Boot loader as follows by entering the respective options:

- [4] Reset TOC to default
- [1] Enter S3C2440 Board IP address and subnetmask.
- [7] Enter MAC address: 22.33.44.55.66.e0
- [6] Program RAM Image into Boot Media: ENABLED
- [B] Support BinFS: ENABLED

23. Please perform the following tasks before you start downloading the OS image on the target board.

- Please check the IP address of the board.
- Change the IP address on your Host PC in the TCP/IP properties.
- You have to set the IP address and Subnet Mask manually in the TCP/IP properties. E.g. if the Target Board IP Address is 165.213.206.216, then set Host PC IP address as 165.213.206.213. Set the subnet mask as 255.255.255.0

24. You can see the changes in the DNW application window as shown in the following figure.

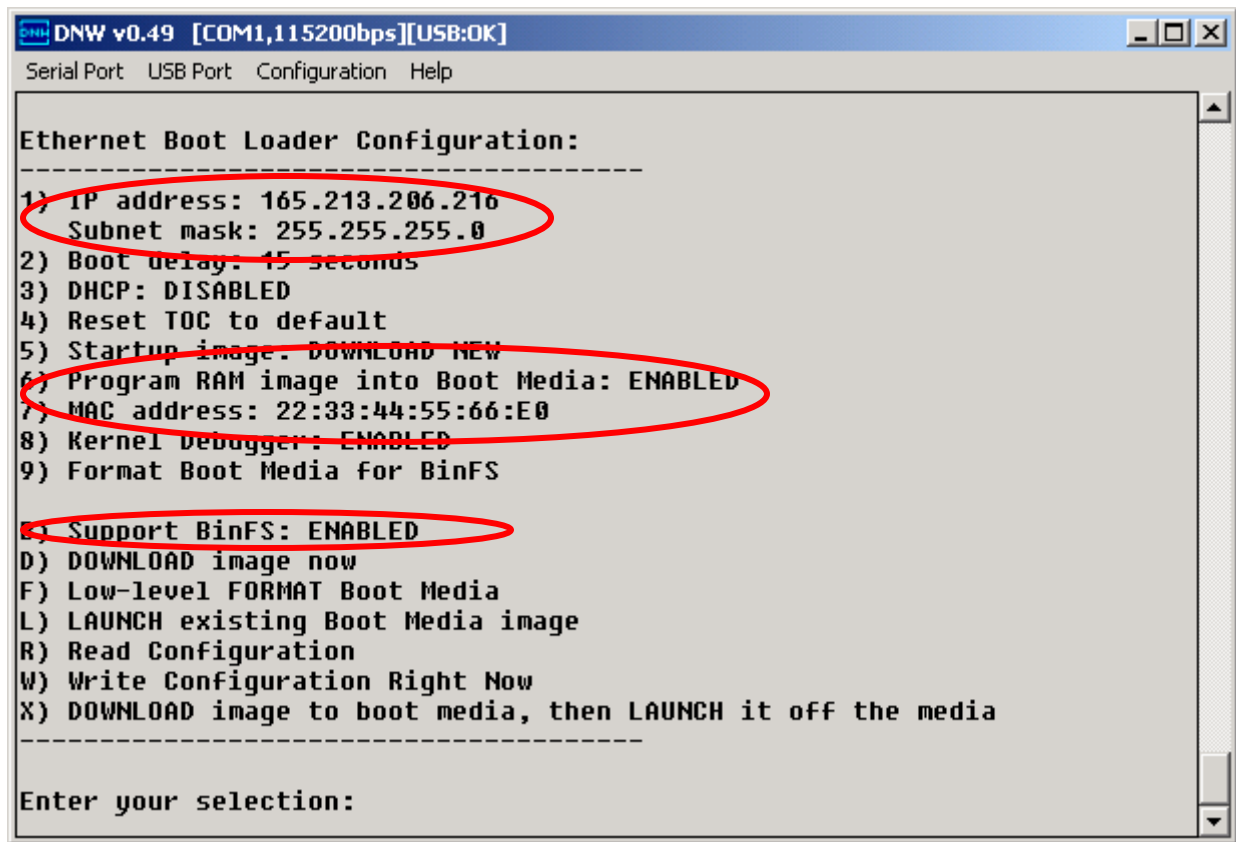


Figure 6-15 Ethernet Boot Loader Configurations

- Enter [W] for 'Write configuration now'
- Enter [F] for 'Low-level FORMAT Boot Media' and wait for few seconds.
- Enter [9] for 'Format Boot Media for BinFS'
- After entering [9] please wait for few minutes it takes almost 5-10 minutes to format boot media for BinFS.
- Please check 'Configuration Remote Connection' settings under 'Target' menu.

25. In the Platform Builder window, please select the 'Download/Initialize' option from the 'Target' menu.

26. In the DNW application window, please enter 'D' to download the OS Image. NK.bin image, which exists in the 'WINCE420\PUBLIC\ [Platform Name] \RelDir\SAMSUNG_SMDK2440_ARMV4IRelease' directory will start to download on to the target board through the Ethernet as shown in the figure 6-17. You can see the following messages in the DNW application window through the UART port.

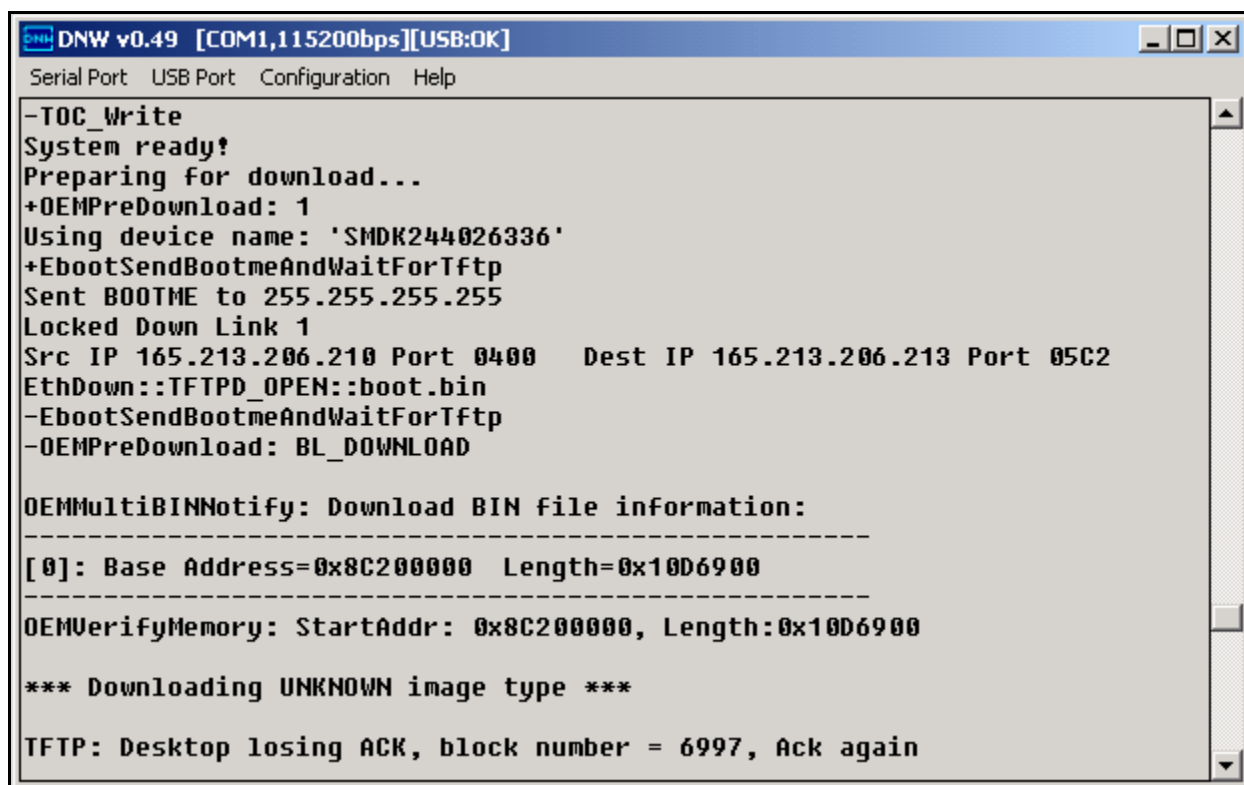


Figure 6-16 Messages via UART Port During NK.bin Download

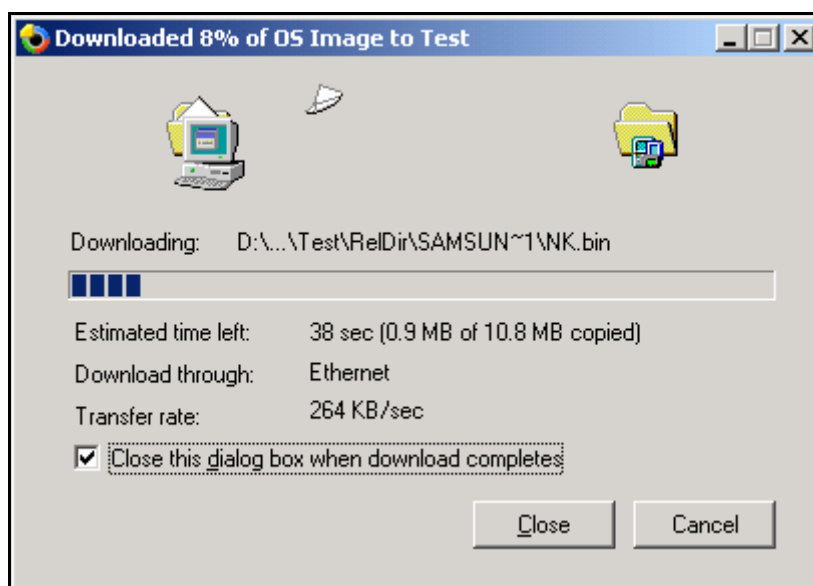
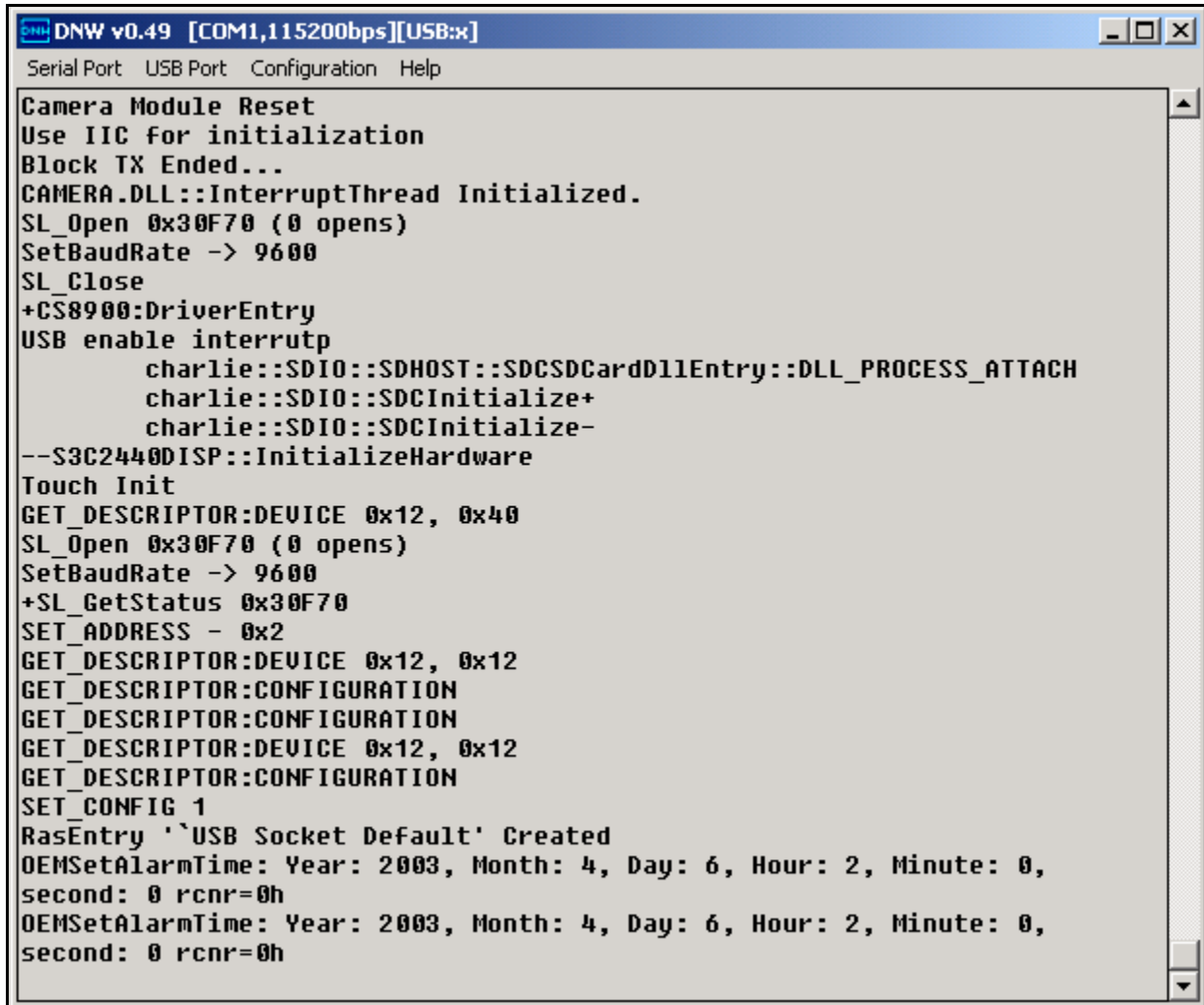


Figure 6-17 Downloading Status of NK.bin

27. After image download is over, you can see the following message in the DNW application window.



```

DNW v0.49 [COM1,115200bps][USB:x]
Serial Port  USB Port  Configuration  Help

Camera Module Reset
Use IIC for initialization
Block TX Ended...
CAMERA.DLL::InterruptThread Initialized.
SL_Open 0x30F70 (0 opens)
SetBaudRate -> 9600
SL_Close
+CS8900:DriverEntry
USB enable interruptp
    charlie::SDIO::SDHOST::SDCSDCardDllEntry::DLL_PROCESS_ATTACH
    charlie::SDIO::SDCInitialize+
    charlie::SDIO::SDCInitialize-
--S3C2440DISP::InitializeHardware
Touch Init
GET_DESCRIPTOR:DEVICE 0x12, 0x40
SL_Open 0x30F70 (0 opens)
SetBaudRate -> 9600
+SL_GetStatus 0x30F70
SET_ADDRESS - 0x2
GET_DESCRIPTOR:DEVICE 0x12, 0x12
GET_DESCRIPTOR:CONFIGURATION
GET_DESCRIPTOR:CONFIGURATION
GET_DESCRIPTOR:DEVICE 0x12, 0x12
GET_DESCRIPTOR:CONFIGURATION
SET_CONFIG 1
RasEntry '\USB Socket Default' Created
OEMSetAlarmTime: Year: 2003, Month: 4, Day: 6, Hour: 2, Minute: 0,
second: 0 rcnr=0h
OEMSetAlarmTime: Year: 2003, Month: 4, Day: 6, Hour: 2, Minute: 0,
second: 0 rcnr=0h
  
```

Figure 6-18 Messages via UART Port after Downloading NK.bin

28. Windows CE .NET will boot on the target board. If Windows CE .NET does not boot on the target board, then the SMC (NAND Flash) has not successfully fused. Please try to fuse the SMC card again.
29. Please power OFF the board and short the pin numbers 2 and 3 of Jumper 'J1' on target board.
30. Power ON the board and you can see Windows CE .NET will boot on target Board.

Index

A

ActiveSync 11

B

boot loader 48

BSP 1

C

Catalog window 14, 15

Configure Remote Connection 28, 30

CS8900.dll 1

D

Device Drivers 14, 15

DNW .. 22, 23, 24, 26, 30, 31, 32, 33, 34, 35, 38, 39, 40, 42,
45, 47, 49, 50, 51

dnw.exe 22, 33

download address 22, 33, 40, 45

E

Eboot image 19

EBOOT.nb0 21, 25, 26, 46, 47

Ethernet 22, 27, 29, 30, 48, 49

I

Import Catalog Features 3

IP address 27, 48

K

KITL 1

M

Manage Catalog Features 2, 4

N

NetMeeting 6

nk.bin 30, 50

NK.nb0 21

O

OS image 19, 27, 48

P

Platform Builder 1, 2, 13, 28, 30, 49

Platform Configuration 8

Platform Name 25, 30, 36, 46, 50

platform.bib 1

S

S3C2410 I, II

S3C2410.cec 1, 3

SMDK2410 1, 3, 7, 21, 30, 50

smdk2410.bat 1

smdk2410.cec 4

U

UART 22, 23, 26, 31, 32, 34, 40, 42, 44, 45, 47, 50, 51

UART/USB Options 22, 33, 40, 45

USB 15, 22, 23, 25, 33, 34, 36, 39, 40, 41, 45, 46

USB Port 25, 36, 39, 41, 46

W

Windows CE 1, 14, 32, 37, 51

Windows CE .NET 4.2 1

