Windows Embedded Compact 7 TI ARM-A8 BSP for

AM35xx/OMAP35xx/AM37xx/DM37xx

Version 02.00.00

Release Notes

Table 1. Revision History

BSP Version	Date	Description
V 1.0.0	11/09/2010	Document creation
V 1.1.0	02/22/2011	BSP 01.01.00 update
V1.1.0.patch_01	03/25/2011	BSP 01.01.00 Patch 01 update
V1.2.0	05/16/2011	BSP 01.02.00 update
V2.0.0	08/24/2011	BSP 02.00.00 update

Contents

1. Trademarks

2. Introduction

This document provides information for TI ARM_A8 WEC 7 BSP release.

TI ARM_A8 BSP is designed for TI AM35x processor family, OMAP35x processor family and AM/DM37x processor family.

It supports two platforms: the AM35x BSP, compatible with the LogicPD AM3517 eXperimenter Kit, and the OMAP35x BSP, compatible with OMAP35x EVM Board (for both OMAP35x processor family and AM/DM37x processor family).

OMAP35x processors and AM/DM37x processors share the same BSP but differ in PowerVR/Graphics binaries; hence the same image can no longer run on both processor families if PowerVR support is enabled.

The BSP release contains the following packages:

- ARM_A8 WINCE BSP for AM35x and OMAP35x EVM.
- DVSDK 01.11.00 release binaries* ported for WEC7
- PowerVR 3D Graphics 02.00.00 release binaries
- Prebuilt images , Tools and Documentation

For more information, please refer to the '*BSP_WINCE_ARM A8_User_Guide.pdf*' file included in this release.

*Note: DVSDK binaries that are supplied were built using WinCE 6.0 DVSDK (http://focus.ti.com/docs/toolsw/folders/print/wincesdk-a8.html) by making the changes highlighted in this porting guide: http://processors.wiki.ti.com/index.php/Guidelines_for_Porting_CE6_based_DVSDK_release_to_WEC7. Currently, DVSDK on WEC 7 is not a TI supported product but customers are free to take older DVSDK package and make any necessary modifications.

3. New Features

3.1. Rel 02_00_00

Following features have been added to this release:

1. Ported for Windows Embedded Compact 7
2. Use of RAMDisk as root file system instead of Object Store for better filesystem performance

Following bugs have been fixed in this release:

ID	Headline
SDOCM00083037	AM3517: SMSC port doesnt work after suspend resume
SDOCM00082825	Unable to access remote network share on omap35x and dm37x
SDOCM00082626	Capturetest - board does not resume after a suspend on dm3730
SDOCM00082591	FTP: When attempting an FTP "get" from the EVM, it initially starts, but then it hangs the EVM
SDOCM00082468	NAND image fails to load on OMAP3530
SDOCM00081814	Power management CETK tests failure summary
SDOCM00081797	CAN tx/rx results in BUS_OFF errors
SDOCM00081532	VMProcessPage fault reported after suspend/resume cycle
SDOCM00081317	Warm reset doesnt work on DM3730
SDOCM00081314	AM3517: The kernel sometimes get stuck on boot-up and the system doesnt respond anymore.

3.2. Rel 01_02_00

Following features have been added to this release:

1. Support for BinFS and multiple bin*. This feature helps in reducing the boot-up time.
2. Ability to change the CPU frequency from eboot.

*Note: The BinFS/multiple bin feature is currently supported for CE6 based releases only. If the customer needs the feature for WEC7, then they will need to port the changes to WEC7 themselves. See http://processors.wiki.ti.com/index.php/Supporting_Multiple_XIP_Regions_in_WinCE_BSP for basic guidelines.

Following bugs have been fixed in this release:

ID	Headline
SDOCM00080831	(Enhancement) Allow user to change opm mode in DVFS enabled build without KITL
SDOCM00080829	(Enhancement) Allow user to select CPU frequency from eboot
SDOCM00080826	Adding Multiple BIN support
SDOCM00080713	Boot from nand with 4-bit and 8-bit ECC xldrnand.bin does not work
SDOCM00080645	Capturetest with pv enabled on am3517 causes target to hang
SDOCM00080200	Loading bin files from SD card to flash
SDOCM00080177	OMAP3530/DM3730: Device resumes immediately on suspend with SYSINTR -1

SDOCM00080176	Linker error in BSPCFG (for WINCE_SDK 01.01.00)
SDOCM00079743	several makefile.inc's in the bootloader subdirectory that copy the output file to an "F:" drive.
SDOCM00076449	(Child) When in OFF mode, hfclkout should be turned off (currently it is still active)
SDOCM00076433	(Child) When tvout is enabled, GFX demos on DVI/LCD slow down significantly
SDOCM00076379	(Child) Tvout (S-Video/Composite output) stops functioning after a suspend/resume cycle
SDOCM00076132	Mismatch information between bsp_opp_map.h and opm command output , CPU load policy registry
SDOCM00076110	OAL Timer Tests - GetVerifyIdle Time - Idle Time While Sleeping fails on AM3517
SDOCM00076086	Suspend-resum manualy on OMAP3530 for many times(more than10) kills the platform or doesn't respond anymore.
SDOCM00075986	Some Nand test like "Create a 100 byte file with 1 cluster free" fail in build 14.
SDOCM00075879	(Child) OMAP3530 ISP suspend/wake-up problem
SDOCM00075872	(Child) With tvout and DVI enabled, starting media playback results in DVI screen blanking out for a second.
SDOCM00075870	(Child) Enabling WaitforVsync in Display driver causes performance degradation
SDOCM00074298	Video capture preview does not work when VRFB is enabled
SDOCM00074297	IAMDroppedFrames interface of camera driver returns 0 values for all statistics
SDOCM00074220	pCannot change the default USB function client via do.exe command usbFnSet
SDOCM00072748	CETK: Flash Memory Read-write and performance - SD Card
SDOCM00069780	KITL only works in polling mode
SDOCM00069778	VMINI is not implemented (CETK Graphical Tool doesn't work)

3.3. Rel 01_01_00 Patch 01

This release addresses multiple issues related to the installer/un-installer. There is no change to the source code and the binaries when compared to Rel 01_01_00

Following bugs have been fixed in this release:

ID	Headline
SDOCM00079752	(BSP_WINCE_ARM_A8)Previous version installed with no bump of ver num, uninstall will remove all versions of product
SDOCM00079749	(BSP_WINCE_ARM_A8) Uninstall of any one (BSP or GFX or DVSDK) will result in uninstalling all three
SDOCM00079547	BSP uninstall script incorrectly removes entire parent directory regardless of whether directory is empty or not

3.4. Rel 01_01_00

Following features have been added to this release:

1. Support for new hardware
    a. AM/DM3730 ES 1.2 silicon (Rev D)
    b. Power Module TPS65950A3 (Rev D)
    c. Zoom XAM3517AZCN (PG1.1)
    d. Application Board 1015189

2. Enabled Smart Reflex for AM/DM37X ES 1.2 Silicon when the characterization data is available.
3. Support for NAND ECC modes – BCH 4-bit and BCH 8-bit. See BSP Limitations section for additional info.
4. Integrated ISP resizer into display driver for OMAP35x and OMAP37x devices so that h/w downscaling is performed even for resolutions such as 720p for which DSS cannot handle h/w downscaling.
5. Support for 720p codecs. Note that this is added for DM3730 devices only and one needs to have DVSDK 01.11.00 release to validate this.

In addition, following bugs have been fixed in this release

ID	Headline
SDOCM00078172	On enabling and executing transcriber app, it complains that the 'Touch.dll' name in the registry is not Transcriber's DLL
SDOCM00078077	July monthly CE update fixes co-proc save/restore reg bug highlighted in SDOCM00069239; No need for NEON workaround
SDOCM00078074	VRFB (Virtual Rotated Frame Buffer) is not compatible with the some video codecs provided by Microsoft.
SDOCM00078071	Unable to set GPIO debounce time from touch driver
SDOCM00078069	KITL over USB RNDIS doesnt work with OTG port on TPS65930 (but works on ISP1507 on TI EVM)
SDOCM00078061	Adding 4bit and 8bit ECC support for NAND device
SDOCM00077424	hwcodecapi.h contains invalid characters resulting in compile error in some countries
SDOCM00077423	bug in the unified BSP - prcm_clock.c
SDOCM00077422	TWL access bug in TWL_XXX functions in OAL
SDOCM00077417	256M memory support should be added in AM35x BSP
SDOCM00074515	OAL retail msgs to be enabled and network settings->kitl to be disabled by default in SD eboot
SDOCM00074514	Ethernet coming up is slow on am3517
SDOCM00074513	Load NK.bin to NAND through SD boot
SDOCM00074219	BSP_NOVRFB variable needs to be removed from AM35x batch file
SDOCM00072602	DO.EXE Shell Extension failure

4. Distribution Contents

The BSP release installation file - BSP_WINCE_ARM_A8_02_00_00_Source.exe contains the following files:

- Docs\BSP_WINCE_ARM_A8_Demo_Manifest.pdf

  - BSP demo package Manifest

- Docs\BSP_WINCE_ARM_A8_Manifest.pdf

- BSP Manifest

- Docs\BSP_WINCE_ARM_A8_Demo_Package_License_Agreement.pdf

  - Software License Agreement for the BSP demo package

- Docs\BSP_WinCE_ARM_A8_SLA.pdf

  - Software License Agreement for the BSP

- Sources*

  - BSP source files, OS Design , DVSDK and Graphics binaries

- Misc*

  - DVSDK and Graphics demo files

- Tools*

  - SD card and NAND flash utilities

The BSP documents zip - BSP_WINCE_ARM_A8_02_00_00_Docs.zip contains the following files:

- Docs\BSP_WINCE_ARM_A8_Demo_Manifest.pdf

  - BSP demo package Manifest

- Docs\BSP_WINCE_ARM_A8_Manifest.pdf

  - BSP Manifest

- Docs\BSP_WINCE_ARM_A8_Demo_Package_License_Agreement.pdf

  - Software License Agreement for the BSP demo package

- Docs\BSP_WinCE_ARM_A8_SLA.pdf

  - Software License Agreement for the BSP

- Docs\BSP_WINCE_ARM_A8_User_Guide.pdf

  - BSP User guide

- Docs\BSP_WINCE_ARM_A8_Quick_Start_Guide.pdf

  - BSP Quick Start guide

5. Installation Instructions

The BSP release installation file will install the source code and release documents to directory C:\TI\BSP_WINCE_ARM_A8_02_00_00\ by default. If the "install to _WINCEROOT" option is selected during installation, then the Sources folder is installed under _WINCEROOT (ex: C:\WINCE700) and docs/misc/tools folder are installed under C:\TI\BSP_WINCE_ARM_A8_02_00_00. If using this option (install to _WINCEROOT), then it is mandatory that you backup and delete older version of ARM A8 BSP from _WINCEROOT folder, else you may have compilation issues (ex: dirs and sources file in the same folder, etc).

The Quick Start Guide contains full details of how to install, build and run the BSP for the respective processor.

6. Requirements

6.1. Software Requirement

- Microsoft Visual Studio 2008 Professional Edition
- Microsoft Visual Studio 2008 Professional Service Pack 1
- Windows Embedded compact 7 March 2011 RTM

6.2. Hardware Requirement

- For AM35x processor family:
  - AM3517 SOM-M2 processor board
  - eXperimenter Baseboard from LogicPD(http://www.logicpd.com/)
  - Application board from LogicPD

- For OMAP35x processor family
  - OMAP3530 EVM (Rev G)[Note] from Mistral(http://www.mistralsolutions.com/)
  - Power Module from Mistral
  - OMAP35x processor Card from Mistral

  Note: OMAP3530 EVM1 is not tested and is not officially supported in the BSP.

- For AM/DM processor family
  - Mistral OMAP3530 EVM (Rev G) from Mistral (same as above)
  - Power Module from Mistral (same as above)
  - AM/DM37x processor Card (Rev C) from Mistral

7. Feature Summary

The User Guide contains full details of the BSP functionality.

A summary of the features supported in this BSP release is available from http://processors.wiki.ti.com/index.php/WinCE-TIBSP_Feature_List

7.1. Selecting the right PowerVR version

The PowerVR drivers for this release are based on the DDK1.7 drivers from Imagination Technologies. The current release has different settings to select the appropriate SGX drivers. These settings are embedded in the Catalog and need to be modified depending on the platform that is being used. By default the drivers are integrated into the final image (SYSGEN_POWERVR) and two flavors can by selected:

- *SYSGEN_PVR_SGXCOREREV_125*: This is the default value and should be used with platforms like the DM37x, AM37x that use the SGX 530 GPU Revision 1.2.5.
- *SYSGEN_PVR_SGXCOREREV_121*: Use this selection for OMAP35x, and AM35x or platforms that use the SGX 530 GPU Revision 1.2.1.

In the case that the incorrect selection is made, a Retail message is generated explaining the mismatch between the expected software driver and the version read from the hardware.

The same image automatically supports the Compositor when it is enabled (SYGEN_COMPOSITION) for the GDI version.

8. Test Summary

The BSP has been tested using a combination of Microsoft CETK, functional test and custom test utilities.

The BSP has been through the full system test and validation process to validate all the BSP functionality. Details of the Known Issues are available in Section 9 below.

The BSP has been tested with the following software and hardware revisions:

- Zoom OMAP3517ZCN (PG1.0) EVM kit (1013686 Rev 5)
    - Processor card : 1013636 Rev 7
    - eXperimenter Baseboard: 1013702 Rev 4
    - Application Board: 1013690 Rev 4**
    - 4.3” WQVGA LCD: 1012041 Rev C
- Zoom XAM3517ZCN (PG1.0) EVM kit (1014470 Rev D)
    - Processor card : 1014471 Rev D
    - eXperimenter Baseboard: 1014472 Rev B
    - Application Board: 1014473 Rev C**
    - 4.3” WQVGA LCD: 1012041 Rev C
- Zoom XAM3517AZCN (PG1.1) EVM kit (1014470 Rev D)
    - Processor card : 1017100 Rev C

  - eXperimenter Baseboard: 1014472 Rev B
  - Application Board: 1015189 Rev C
  - 4.3” WQVGA LCD: 1012041 Rev C

- Mistral OMAP35x EVM kit

  - Main board: Rev G
  - Power Module: Rev D
  - OMAP35xx processor card: Rev C
  - OMAP37xx(ES1.2) processor card: Rev D

- Windows Embedded Compact 7

In addition to functionality, performance was also measured, you can found out the performance data from the following link:

http://processors.wiki.ti.com/index.php/WinCE_Comparative_Benchmarks

**Note: For older revisions of App boards, video input driver functionality will not work out of the box in this release. Users will need to modify the video input driver and rebuild BSP, if using older app boards. See ARM A8 User Guide (Section Video Input/Camera driver) for more details.

http://processors.wiki.ti.com/index.php/WinCE-BSP_ARM-A8_User_Guide#Video_input.2FCamera_Driver

9. Limitations

Due to hardware and software limitations, some of the feature may not work properly. See current list below. For an updated list, please visit http://processors.wiki.ti.com/index.php/WinCE_BSP_ARM-A8_Known_Limitations

9.1. BSP Limitations related to Hardware

This section lists issues in the ARM-A8 WinCE BSP due to TI EVM limitations. If a particular feature listed below is desired, then customers can modify their board design accordingly.

- **SDOCM00073563** - write protection is not working on slot 2 (AM3517). GPIO 176 is used by SDHC2 for its WP detect. This is also used by LCD module for PANEL_POWER. In case of LCD, this GPIO should be configured as output but for SDHC2, this should be configured as input. Its becasue of this pin mux conflict, WP is disabled for SDHC2. To enable the write protection, PAD configuration(bsp_padcfg.h) for MCSPI_CS2 needs to be added in MMC2_PADS and “CardWPGPIO” for slot 2 needs to be set in sdhc.reg.
- **SDOCM00074846** - warm reboot doesnt work when booting from SD card on AM3517. One would need to mod the board to achieve the right SYS_BOOT sequence to boot from MMC1 for warm boot.

- **SDOCM00075349** - CEStress fails on DM3730 after about 30 minutes - device is inactive. Issue appears to be an EVM issue as some boards work fine and some don't.
- **SDOCM00075381** - Prefetch abort error (or application hangs otherwise) on omap35xx after watchdog timer times out and app is coming up. Issue appears to be an EVM issue as some boards work fine & some don't.
- **SDOCM00076091** - Voltage drop on VDD2 for most of OPPs is not correct. The reading is much higher than expected. Again EVM limitation.
- **SDOCM00070568** - NOR XLDR doesn't boot (AM3517). The NAND_nCS line comes from the application board to the SOM and is equivalent to GPMC_nCS2 when BOOT_SRC is set properly. The problem is that the boot rom code does not setup GPMC_nCS2 and leaves the pad unused (it acts as unconnected) and therefore the presence of the application board or its absence doesn’t change the behavior of this line during the boot rom code execution. As a result, accessing CS0 still accesses the NAND (and actually the NOR in parallel) and returns invalid data.
- **SDOCM00073565** - Cannot test low voltage MMC cards (AM3517). In order to test the lower voltage cards, you will have to move the R220 to R221 to switch the SD slot to the 1.8 V rail instead of the 3.3V rail. You will then have to change the slot's voltage capabilities flag to add the 1.8 V range to it.
- **SDOCM00075958** - Verify Get NLED Count fail on dm3730. EVM limitation. NLED driver for AM/DM37x is disabled. The Pinmux for PROC_ACT LED GPIO (GPIO8) conflicts with DSS_data23 on DM3730.
- **SDOCM00078379** - BCH 4bit ECC does not work on OMAP3530 , AM/DM 3730 PG1.0 and AM3517 PG1.0. Chip limitation. The issue is fixed in chip version AM/DM3730 PG1.1 and AM3517 PG1.1. OMAP3530 chip does not have the fix.
- **SDOCM00076456** - Video encode performance using capturetest app on omap3530 is lower than dm3730. Performance is expected to be lower on omap3530. This IR documents the information along with some numbers in comparison with performance on dm3730. Scenario: Codec H264 BitRate 4000000bps Resolution 720x480@30 Output written to RAM, VideoInput is AV
- **AM35X SD/MMC 2** - SD/MMC slot 2 can not be recognized on some AM3517 EVM. Signals of MMC2 are conflicting with wireless module.
- **DISPLAY ROTATION** - In DVI mode, when desktop is rotated by 90 degrees, multimedia playout cause corrupted video and audio playout
- **VIDEO INPUT** - AM35x only. By default, BSP 01.02.00 and later can only work with App board revision 1015189 and later whereas BSP 01.01.00 and earlier versions of BSP can work with old App board revisions. To change this default behavior, see Video Input Driver section in BSP ARM A8 User Guide.
- **COLD BOOT FROM SOFTWARE** - Device power cannot be turned off from software due to an EVM limitation.

9.2. BSP Limitations related to Microsoft WinCE Kernel

This section describes issues in ARM-A8 BSP due to bugs identified in either WinCE private kernel code and/or CETK test case.

- **SDOCM00068743** - Partition Driver Test - CETK - fails for test ID 5103 - R/W and bounds check disk partition data **(CE6 only)**
- **SDOCM00068741** - OAL Cache CETK test - OAL Data Cache Size Calculation test fails (test case ID 1008)

- **SDOCM00071488** - CETK:Storage Device Block Driver API Test - 4024 fail and Storage Block Driver Read/Write Test - Buffer Sizes: (8X) test fail. Tthe failure is due to a wrong error code (ERROR_INVALID_PARAMETER) which is returned by the WINCE private FAL code and not the NAND FMD layer. **(CE6 only)**
- **SDOCM00072747** - Storage Block Driver Read/Write Test - Buffer Sizes: (8X) test fails - NANDFlash. **(CE6 only)**
- **SDOCM00081811** - OAL RTC Alarm Test fails on AM3517. Problem is investigated and the issue is CETK test code issue. "Day of week" value from the test is incorrect in some test cases. If one modifies RTC driver to ignore "day of week" value when setting Alarm for test purpose or corrects the code in \test\baseos\pqoal\cetk\timers\code\tuxrealtime.cpp, test case 1002 will pass. **(WEC7 only)**
- **BMQ** - In WEC7 BSP, the BMQ performance for Integer and Memory are lower than WinCE 6.0 BSP. These BMQ tests call rand() function in a loop and in WEC7, this function (including many other coredll function) is implemented differently and takes a little longer to execute than the WinCE 6.0 equivalent. Hence the drop in performance. **(WEC7 only)**
- **Qbench** - All Qbench tests except for GDI released for WinCE 6.0 can be run on WEC 7 BSP. Qbench app has not been ported for WEC 7 and hence the GDI tests fail. **(WEC7 only)**

9.3. Other BSP Limitations

- **SDOCM00074296** - Capture driver supports only interlaced video input
- **SDOCM00078776** - BCH software decoder returns "-1" occasionally.
- **TV OUT** - Surfaces greater than 800x600 in resolution cannot be displayed on TV output.
- **ISP RESIZER in DSS** - When TV out is enabled, it is advisable to disable use of ISP resizer in display (DSS) driver (available as catalog entry).

9.4. Multimedia Limitations

1. Only the DSP decoders have been ported for WEC 7. If the DSP encoders are required, then customers will need to do the necessary changes.

2. VRFB needs to be disabled if you want to play video file based on DSP codec using Silverlight Video Player. The reasoning behind this is as follows: Silverlight based Video Player needs compositor to be enabled. When compositor is enabled, then the system requests a number of distinct hardware surfaces even for small icons. When VRFB is also enabled, the number of hardware surfaces available at a time is limited to 12 (VRFB spec). So with compositor and VRFB enabled, the hardware surfaces are soon depleted and there are none left for the video surfaces. Now, the DSP based codec are optimized assuming that the video buffers would be hardware buffers and not system buffers, hence VRFB needs to be disabled.

3. Video playback fails on LCD and display goes blank (SDOCM00081313). This is due to the fact:

    a. Display on LCD is in portrait mode by default.

    b. VRFB is disabled in the default OS-design due to above limitation#2

    c. Silverlight based video player plays video file only in landscape mode and hence needs rotation.

d. DMA based rotation is not sufficient enough for this purpose.

Workaround: Use Microsoft provided Dshow player (ceplayit) which is not silverlight based for LCD based demos. See C:\WINCE700\public\directx\sdk\samples\dshow\Players\ceplayit\readme.txt for more details on this player.

10.Known Issues

Latest issues list can be tracked in the TI bug database
https://cqweb.ext.ti.com/cqweb/main?command=GenerateMainFrame&service=CQ&schema=SDo-Web&contextid=SDOWP&entityDefName=IncidentReport&username=readonly&password=readonly&queryID=34507689

Here is a brief note on what various states in this database mean:

- Open: Problem has been submitted recently but has not been looked at by Eng (may or may not be real issue)
- Accepted: Engineering has accepted the problem as an issue to look into
- Planned: Fix has been implemented but has not been released or verified by QA
- Fixed: Resolution implemented and fix verified independently by QA

ID	Headline	Targets
SDOCM00083614	CETK Ethernet Test failures	ALL
SDOCM00083472	Power Management CETK tests - final summary	ALL
SDOCM00083469	Remote network share performance numbers are lower for read in ce7 release	ALL
SDOCM00083397	Olivia demo needs to be removed from source package as well as SLA and manifest for ce7 release	ALL
SDOCM00083393	Transcend MMC card cannot be detected by ce7 SD driver	ALL
SDOCM00083392	Capturetest - after suspend/resume, preview has one frame from the previous capture most of the time	ALL
SDOCM00083186	Source Code Installer - Does not indicate that certain sub directories need to be deleted prior to continuing the install.	ALL
SDOCM00083129	Support for bootutils test - environment variable for imgboottest and supporting files	ALL
SDOCM00082916	Implement Pesistent storage for SD card	ALL
SDOCM00082629	CETK- Multimedia_Camera Test Summary	ALL
SDOCM00081819	Graphics Device Interface Test - summary	ALL
SDOCM00081013	Directdraw test cases failures on CE7 - see desc for test ids	ALL
SDOCM00081005	CTK: Storage Media | MMC | SDMEMTUX test suit fails	ALL
SDOCM00081004	CETK Storage | Sdmemtux test suite for SD card, test 3004 failed intermittently	ALL
SDOCM00080648	Capturetest with "raw" option should allow output to be saved in an output file	ALL
SDOCM00080647	Work item - would like to know why component capture preview shows two outputs side-by-side unlike AV or SVideo capture	ALL
SDOCM00078776	BCH software decoder returns "-1" occasionally	ALL
SDOCM00076382	(Child) Switching TVout (composite/S-Video) on/off doesn't work always while DVI is on	ALL

SDOCM00076059	GDI tests on AM3517 - DVI mode leads to display toggling between on and off and test not completing	ALL
SDOCM00075671	Green band at bottom and blue line on rightmost end of capture window	ALL
SDOCM00075370	With 1280x720 DVI resolution, output is disturbed on omap3530 and red on am3517, during image download	ALL
SDOCM00075290	USB Mass Storage takes a long time to mount on Windows Vista/7	ALL
SDOCM00074380	System hangs when not exiting an OpenGL application gracefully	ALL
SDOCM00073566	SD data transfer rates do not show improvements in when highspeedsupport is enabled	ALL
SDOCM00071359	CETK - NAND - File System Driver	ALL
SDOCM00081686	NLED driver CTK failures	AM/DM3730
SDOCM00075809	Random Data Abort on GPTimer1 register access	AM/DM3730
SDOCM00083395	Capturetest - suspend/resume and some combination of capablities causes system to freeze/hang	AM/DM3730/OMAP3530
SDOCM00083394	Suspend/resume - after around 900 attempts, issue with ethernet connectivity and power measurement	AM/DM3730/OMAP3530
SDOCM00081007	CTK: OTG test 1002 cause the device crash	AM/DM3730/OMAP3530
SDOCM00081006	CTK: Usb function BVT test fails with error could not change to client "USBFNBVT"	AM/DM3730/OMAP3530
SDOCM00080646	Capturetest - stream statistics - number of captured samples and average frame size are always 0	AM/DM3730/OMAP3530
SDOCM00076438	(Child) Active Sync connection can't be established after reset through WARM_RST button when plugged into USB OTG port.	AM/DM3730/OMAP3530
SDOCM00075874	(Child) VBus Error seen occasionally causing OTG port not to function	AM/DM3730/OMAP3530
SDOCM00074376	Implementation for Advisory 3.1.1.176 Accesses to DDR Stall in SDRC After a Warm-reset	AM/DM3730/OMAP3530
SDOCM00073564	Query on keypad	AM/DM3730/OMAP3530
SDOCM00073366	USB-Forum OPT Tests: OMAP3530 Fails a significant number of tests	AM/DM3730/OMAP3530
SDOCM00072810	Waveform Audio Driver - mixerOpen function fails on omap3530	AM/DM3730/OMAP3530
SDOCM00072605	(Child) When the device hangs, USB RNDIS KITL will not work until PC is re-booted (TTM Issue on OMAP 6.14 release)	AM/DM3730/OMAP3530
SDOCM00072603	(Child) When BSP_XRPLUGIN_DDRAW is turned on, XAML perf apps doesn't work (TTM Issue on OMAP 6.14 release)	AM/DM3730/OMAP3530
SDOCM00083470	Bootstress test - around 890 iterations on am3517 v1.1 (560 iterations on am3517 v1.0), ethernet interface does not come up	AM3517
SDOCM00083054	PM CETK tests that onvolve RTC wakeup dont work reliably with AM35x	AM3517
SDOCM00083036	AM3517: When EMAC is configured for KITL interrupt mode, CTK test suite doesnt connect	AM3517
SDOCM00082630	CAN - issues when switching to different baud with send rate at maximum	AM3517
SDOCM00082627	Capturetest issues - AM3517	AM3517
SDOCM00075941	Touchscreen becomes no response intermittently after suspend and resume	AM3517
SDOCM00075108	OAL CETK Test fails - Compare All Three Timers- Busy Sleep	AM3517
SDOCM00074949	Camera Driver SelectXXX function not implemented properly	AM3517
SDOCM00074632	Battery API test - one test fails on AM3517	AM3517
SDOCM00073493	USB-Audio Streaming - Streaming to/from USB speakers/microphone does not work.	AM3517
SDOCM00073454	Serial port communication tests - failures are seen B2B and many tests fail when run board to PC	AM3517
SDOCM00073453	BUS_OFF error seen after dynamic baud rate change to 50000	AM3517
SDOCM00073165	CAN driver requirement - powerup and powerdown APIs are currently stubs - need to be implemented	AM3517

SDOCM00072812	Waveform Audio Driver - 5000-5004 - powerup/powerdown tests - AM3517 board does not resume	AM3517
SDOCM00072426	AIC23 in master mode is required to verify McBSP in slave mode functionality	AM3517
SDOCM00072121	Provide way to stop refreshing WDT and way to set WDT timeout value instead of modifying source code	AM3517
SDOCM00071296	CAN - loopback feature in WinCE driver will enable testing low bit rates like 10K	AM3517
SDOCM00081817	DShow Video CTK Test Results Summary	DM3730/OMAP3530
SDOCM00081313	Video playback is corrupted when using silverlight based video player on LCD	DM3730/OMAP3530
SDOCM00075868	(Child) DVI mode - rotation and then, multimedia playout cause corrupted video and audio playout	DM3730/OMAP3530
SDOCM00074639	Data abort seen when going into suspend state while WMP is playing video file from SD card (which uses DSP codec)	DM3730/OMAP3530
SDOCM00069252	If doing Suspend while Media playback is active, DSP does not go into suspend and this results in higher power consumption	DM3730/OMAP3530

11.Support

For technical support, please post to the TI e2e WinCE community forum

http://e2e.ti.com/support/embedded/f/353.aspx

Forum reported issues that are reproducible on the EVM will be entered into TI bug database and can be tracked here

https://cqweb.ext.ti.com/cqweb/main?command=GenerateMainFrame&service=CQ&schema=SDo-Web&contextid=SDOWP&entityDefName=IncidentReport&username=readonly&password=readonly&queryID=34507689

Note: If prompted for login/password, please close the browser and click on the link again.

For latest information on the BSP, please TI WINCE BSP wiki:

http://processors.wiki.ti.com/index.php/WinCE-TIBSP_Handbook

Users new to Windows Embedded CE6 can start from the following link:

http://www.microsoft.com/windowsembedded/en-us/products/windowsce/default.mspx