



Application Note: Upgrading To Z-Stack v2.5

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1. Purpose

This document describes considerations to make when upgrading to Texas Instruments' Z-Stack™ version 2.5.0, discussing changes made since the 2.4.0 release of Z-Stack. New additions to Z-Stack include support of selected Smart Energy 1.1 features and the ZCL Commissioning Cluster with a ZBA Server sample application.

This document deals with four Z-Stack installation packages, listed below. Each of these packages includes the latest Z-Stack files and libraries, along with sample applications, documentation, and PC-based tools:

- **ZStack-CC2530-2.5.0.exe** - for SmartRF05EB + CC2530EM
- **ZStack-EXP5438-2.5.0.exe** - for MSP-EXP430F5438 + CC2520EM
- **ZStack-LM9B96-2.5.0.exe** - for LM3S9B96 + CC2520EM
- **ZStack-MSP2618-2.5.0.exe** - for SmartRF05EB + MSP2618 + CC2520EM

2. Summary of Changes

2.1 ZStack-2.5.0 Changes

This section summarizes changes to Z-Stack that are observed when upgrading from version 2.4.0 to 2.5.0. Refer to the README document supplied with each Z-Stack installation for a detailed list of changes in version 2.5.0.

2.1.1 ZCL Commissioning Cluster

Z-Stack now supports the ZigBee ZCL Commissioning Cluster. This feature permits interoperable commissioning and management of commercial building automation (CBA) products from different vendors. Refer to the “Z-Stack Commissioning Cluster API” document for API details. Refer to Section 6 of the “Z-Stack Sample Applications” document for details on the *CCServer* sample application to demonstrate use of the commissioning cluster in ZigBee Building Automation (ZBA) devices.

2.1.2 Smart Energy 1.1 Features

Z-Stack has added support for key Smart Energy 1.1 features, including: Fast Polling, Price Acknowledgement, Prepayment, Block Tariffs, and Multi ESI. Refer to the “Z-Stack Smart Energy Developer’s Guide” for information on these new features. Also see the “Smart Energy Sample Application User’s Guide” for details on Fast Polling, Prepayment and Price Acknowledgement testing.

2.1.3 OSAL Enhancements

Enhancements have been made to OSAL functionality as described below. These new features were developed for use in Z-Stack and ZNP systems. Refer to the “OSAL API” document for details on use of OSAL features.

2.1.3.1 NV Item Deletion

Previous versions of Z-Stack did not support the deletion of an item from Non-Volatile (NV) memory. This could be a problem when upgrading an application in a deployed device if the NV item has changed size or content. Z-Stack now supports creation and deletion of NV items from the MT interface. Use of this feature is intended for user defined NV items (0x0400-0x0FFF) – deletion of Z-Stack system NV items (0x0000-0x03FF) is permitted but not recommended. Refer to the “OSAL API” document for details on the *osal_nv_delete()* and *osal_nv_len()*. See the “Z-Stack Monitor and Test API” document for details on using these features with serial I/O (ZNP and Z-Tool).

2.1.3.2 Task Identification

The *osal_self()* function has been re-introduced to permit an application to determine which OSAL task is currently active. This can be useful in Z-Stack systems which have more than one application task that share code that needs to use the task ID (for example, setting an OSAL timer). Refer to the “OSAL API” document for the use of *osal_self()*.

2.1.4 Compiler Changes

IAR toolsets for the CC2530, MSP430, and LM9B96 platforms have been changed since the ZStack-2.4.0 release to take advantage of the latest improvements in the IDE, compilers, linkers, debuggers, etc. All ZStack-2.5.0 development and testing was performed with these newer tools, so it is recommended that users do an upgrade to these versions.

2.1.4.1 CC2530

Z-Stack-2.5.0 packages that support CC2530-based platforms have been upgraded to use the IAR EW8051 v8.10 Embedded Workbench toolset. The Z-Stack-2.4.0 release used v7.60 - note that ZStack-2.5.0 projects will not build properly with the v7.60 toolset – developers should upgrade to the v8.10 version.

2.1.4.2 MSP430

Z-Stack-2.5.0 packages that support MSP430-based platforms (MSP2618 and EXP5438) have been upgraded to use the IAR EW430 v5.20.4 Embedded Workbench toolset. The Z-Stack-2.4.0 release used v5.10.6 - note that ZStack-2.5.0 projects will build properly with the v5.10.6 toolset, but developers are encouraged to upgrade to v5.20.4.

2.1.4.3 LM9B96

Z-Stack-2.5.0 packages that support LM9B96-based platforms have been upgraded to use the IAR EW430 v6.20.4 Embedded Workbench toolset. The Z-Stack-2.4.0 release used v5.50 - note that ZStack-2.5.0 projects will not build properly with the v5.50 toolset – developers should upgrade to the v6.20 version.

3. Changes to Installed Files

This section lists file changes to Z-Stack installations that result when upgrading from version 2.4.0 to 2.5.0. Refer to the following table for changes to the Z-Stack installers. Pay particular attention to items listed with **New** or **Removed** in the **Change** column. File folder updates are indicated when there is no entry in the **File** column. Making changes to existing project files (*.ewp,*.ewd,*.eww) can be done with the Embedded Workbench IDE or by editing the XML files directly. The following Z-Stack files have been changed since the v2.4.0 release:

| File | Location | Change |
|-------------------------|---|----------|
| hal_dma.h | ...\Components\hal\target\CC2530EB | Modified |
| hal_led.c | ...\Components\hal\target\CC2530EB | Modified |
| hal_sleep.c | ...\Components\hal\target\CC2530EB | Modified |
| hal_dma.h | ...\Components\hal\target\CC2530USB | Modified |
| hal_led.c | ...\Components\hal\target\CC2530USB | Modified |
| hal_sleep.c | ...\Components\hal\target\CC2530USB | Modified |
| usb_descriptor_parser.c | ...\Components\hal\target\CC2530USB\usb\library | Modified |
| hal_dma.h | ...\Components\hal\target\CC2530ZNP | Modified |
| hal_led.c | ...\Components\hal\target\CC2530ZNP | Modified |
| hal_sleep.c | ...\Components\hal\target\CC2530ZNP | Modified |
| | ...\Components\hal\target\LM3S8962CC2520 | Removed |
| hal_mac_cfg.c | ...\Components\hal\target\LM3S9B96CC2520 | Modified |
| hal_mac_cfg.h | ...\Components\hal\target\LM3S9B96CC2520 | Modified |
| hal_mcu.h | ...\Components\hal\target\LM3S9B96CC2520 | Modified |
| hal_sleep.c | ...\Components\hal\target\LM3S9B96CC2520 | Modified |
| hal_mac_cfg.c | ...\Components\hal\target\MSP2618CC2520 | Modified |
| hal_mac_cfg.h | ...\Components\hal\target\MSP2618CC2520 | Modified |
| hal_mcu.h | ...\Components\hal\target\MSP2618CC2520 | Modified |
| hal_sleep.c | ...\Components\hal\target\MSP2618CC2520 | Modified |
| hal_adc.c | ...\Components\hal\target\MSP5438CC2520 | Modified |
| hal_mac_cfg.c | ...\Components\hal\target\MSP5438CC2520 | Modified |
| hal_mac_cfg.h | ...\Components\hal\target\MSP5438CC2520 | Modified |
| hal_mcu.h | ...\Components\hal\target\MSP5438CC2520 | Modified |
| hal_sleep.c | ...\Components\hal\target\MSP5438CC2520 | Modified |
| mac_high_level.h | ...\Components\mac\high_level | Modified |
| mac_security.h | ...\Components\mac\high_level | New |
| mac_spec.h | ...\Components\mac\high_level | Modified |
| mac_api.h | ...\Components\mac\include | Modified |
| mac_backoff_timer.c | ...\Components\mac\low_level\srf04 | Modified |
| mac_backoff_timer.c | ...\Components\mac\low_level\srf04 | Modified |
| mac_radio.c | ...\Components\mac\low_level\srf04 | Modified |
| mac_rx.c | ...\Components\mac\low_level\srf04 | Modified |

| | | |
|-------------------|--|----------|
| mac_dualchip.c | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_dualchip_tx.c | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_mcu_timer.c | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_mcu_timer.h | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_radio_defs.c | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_radio_defs.h | ...\Components\mac\low_level\srf04\dual_chip | Modified |
| mac_mcu.c | ...\Components\mac\low_level\srf04\single_chip | Modified |
| mac_mcu.h | ...\Components\mac\low_level\srf04\single_chip | Modified |
| mac_radio_defs.c | ...\Components\mac\low_level\srf04\single_chip | Modified |
| mac_radio_defs.h | ...\Components\mac\low_level\srf04\single_chip | Modified |
| mac_rffrontend.c | ...\Components\mac\low_level\srf04\single_chip | Modified |
| MT.c | ...\Components\mt | Modified |
| MT.h | ...\Components\mt | Modified |
| MT_AF.c | ...\Components\mt | Modified |
| MT_APP.c | ...\Components\mt | Modified |
| MT_DEBUG.c | ...\Components\mt | Modified |
| MT_DEBUG.h | ...\Components\mt | Modified |
| MT_MAC.c | ...\Components\mt | Modified |
| MT_SYS.c | ...\Components\mt | Modified |
| MT_TASK.c | ...\Components\mt | Modified |
| MT_UTIL.c | ...\Components\mt | Modified |
| MT_VERSION.c | ...\Components\mt | Modified |
| MT_ZDO.c | ...\Components\mt | Modified |
| OSAL.c | ...\Components\osal\common | Modified |
| OSAL_Clock.c | ...\Components\osal\common | Modified |
| OSAL_Clock.h | ...\Components\osal\include | Modified |
| OSAL_Nv.h | ...\Components\osal\include | Modified |
| ZComDef.h | ...\Components\osal\include | Modified |
| OSAL_Nv.c | ...\Components\osal\mcu\arm_cm3 | Modified |
| OSAL_Nv.c | ...\Components\osal\mcu\cc2530 | Modified |
| OSAL_Nv.c | ...\Components\osal\mcu\msp430 | Modified |
| AF.c | ...\Components\stack\af | Modified |
| AF.h | ...\Components\stack\af | Modified |
| AddrMgr.h | ...\Components\stack\nwk | Modified |
| APS.h | ...\Components\stack\nwk | Modified |
| aps_frag.h | ...\Components\stack\nwk | Modified |
| APSMED.h | ...\Components\stack\nwk | Modified |
| BindingTable.c | ...\Components\stack\nwk | New* |
| NLMED.h | ...\Components\stack\nwk | Modified |
| nwk_globals.c | ...\Components\stack\nwk | Modified |
| nwk_globals.h | ...\Components\stack\nwk | Modified |
| nwk_util.h | ...\Components\stack\nwk | Modified |
| stub_aps.c | ...\Components\stack\nwk | Modified |
| stub_aps.h | ...\Components\stack\nwk | Modified |
| ZGlobals.c | ...\Components\stack\sys | Modified |
| ZGlobals.h | ...\Components\stack\sys | Modified |
| zcl.c | ...\Components\stack\zcl | Modified |
| zcl.h | ...\Components\stack\zcl | Modified |
| zcl_cc.c | ...\Components\stack\zcl | New |
| zcl_cc.h | ...\Components\stack\zcl | New |
| zcl_cert_data.c | ...\Components\stack\zcl | Modified |
| zcl_closures.c | ...\Components\stack\zcl | Modified |
| zcl_closures.h | ...\Components\stack\zcl | Modified |
| zcl_general.c | ...\Components\stack\zcl | Modified |

| | | |
|--|---|----------|
| zcl_general.h | ...\Components\stack\zcl | Modified |
| zcl_hvac.c | ...\Components\stack\zcl | Modified |
| zcl_hvac.h | ...\Components\stack\zcl | Modified |
| zcl_key_establish.c | ...\Components\stack\zcl | Modified |
| zcl_key_establish.h | ...\Components\stack\zcl | Modified |
| zcl_ota.c | ...\Components\stack\zcl | Modified |
| zcl_se.c | ...\Components\stack\zcl | Modified |
| zcl_se.h | ...\Components\stack\zcl | Modified |
| ZDApp.c | ...\Components\stack\zdo | Modified |
| ZDApp.h | ...\Components\stack\zdo | Modified |
| ZDConfig.h | ...\Components\stack\zdo | Modified |
| ZDObject.c | ...\Components\stack\zdo | Modified |
| ZDSecMgr.c | ...\Components\stack\zdo | Modified |
| ZDSecMgr.h | ...\Components\stack\zdo | Modified |
| ZMAC.h | ...\Components\stack\zmac | Modified |
| zmac.c | ...\Components\stack\zmac\fw | Modified |
| zmac_ch.c | ...\Components\stack\zmac\fw | Modified |
| zmac_internal.h | ...\Components\stack\zmac\fw | Modified |
| OSAL API | ...\Documents | Modified |
| Smart Energy Sample Application User's Guide | ...\Documents | Modified |
| Upgrading To Z-Stack v2.5 | ...\Documents | New |
| Z-Stack API | ...\Documents | Modified |
| Z-Stack Commissioning Cluster API | ...\Documents | New |
| Z-Stack Developer's Guide | ...\Documents | Modified |
| Z-Stack Monitor and Test API | ...\Documents | Modified |
| Z-Stack Sample Applications | ...\Documents | Modified |
| Z-Stack Smart Energy Developer's Guide | ...\Documents | Modified |
| Z-Stack ZCL API | ...\Documents | Modified |
| CC2530ZNP Interface Specification | ...\Documents\CC2530 | Modified |
| README CC2530 | ...\Documents\CC2530 | Modified |
| Z-Stack User's Guide – CC2530DB | ...\Documents\CC2530 | Modified |
| README EXP5438 | ...\Documents\EXP5438 | Modified |
| Z-Stack User's Guide – EXP5438 | ...\Documents\EXP5438 | Modified |
| README LM3S9B96 | ...\Documents\LM9B96 | Modified |
| Z-Stack User's Guide – LM9B96 | ...\Documents\LM9B96 | Modified |
| README MSP2618 | ...\Documents\MSP2618 | Modified |
| Z-Stack User's Guide – CC2520 | ...\Documents\MSP2618 | Modified |
| SampleLight.ewd | ...\Projects\zstack\HomeAutomation\SampleLight\CC2520DB | Modified |
| SampleLight.ewp | ...\Projects\zstack\HomeAutomation\SampleLight\CC2520DB | Modified |
| SampleLight.ewd | ...\Projects\zstack\HomeAutomation\SampleLight\CC2530DB | Modified |
| SampleLight.ewp | ...\Projects\zstack\HomeAutomation\SampleLight\CC2530DB | Modified |
| SampleLight.ewd | ...\Projects\zstack\HomeAutomation\SampleLight\EXP5438 | Modified |
| SampleLight.ewp | ...\Projects\zstack\HomeAutomation\SampleLight\EXP5438 | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitch\CC2520DB | Modified |
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitch\CC2520DB | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitch\CC2530DB | Modified |
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitch\CC2530DB | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitch\EXP5438 | Modified |
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitch\EXP5438 | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\CC2520DB | Modified |
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\CC2520DB | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\CC2530DB | Modified |
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\CC2530DB | Modified |
| SampleSwitch.ewd | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\EXP5438 | Modified |

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|-------------------------|--|----------|
| SampleSwitch.ewp | ...\Projects\zstack\HomeAutomation\SampleSwitchOta\EXP5438 | Modified |
| AllDevice-Pro.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| Ecc.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| EndDevice.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| EndDevice-Pro.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| EndDeviceMt.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| EndDeviceMt-Pro.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| Router.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| Router-Pro.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| RouterMt.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| RouterMt-Pro.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| Security.a | ...\Projects\zstack\Libraries\LM3Sxxx\bin | Modified |
| ecc.r43 | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| EndDevice2618.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| EndDevice2618-Pro.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| EndDevice2618MT.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| EndDevice2618MT-Pro.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| Router2618.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| Router2618-Pro.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| Router2618MT.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| Router2618MT-Pro.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| Security2618.lib | ...\Projects\zstack\Libraries\MSP2618\bin | Modified |
| ecc.r43 | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| EndDevice54xx.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| EndDevice54xx-Pro.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| EndDevice54xxMT.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| EndDevice54xxMT-Pro.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| Router54xx.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| Router54xx-Pro.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| Router54xxMT.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| Router54xxMT-Pro.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| Security54xx.lib | ...\Projects\zstack\Libraries\MSP54xx\bin | Modified |
| AllDevice-Pro.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| ecc.r51 | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| EndDevice.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| EndDevice-Pro.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| EndDeviceMt.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| EndDeviceMt-Pro.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| Router.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| Router-Pro.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| RouterMt.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| RouterMt-Pro.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| Security.lib | ...\Projects\zstack\Libraries\TI2530DB\bin | Modified |
| TIMAC-CC2530.lib | ...\Projects\zstack\Libraries\TIMAC\bin | Modified |
| TIMAC-LM3Sxx.a | ...\Projects\zstack\Libraries\TIMAC\bin | Modified |
| TIMAC-MSP2618.lib | ...\Projects\zstack\Libraries\TIMAC\bin | Modified |
| TIMAC-MSP54xx.lib | ...\Projects\zstack\Libraries\TIMAC\bin | Modified |
| Boot.ewd | ...\Projects\zstack\OTA\Boot\CC2530DB | Modified |
| Boot.ewp | ...\Projects\zstack\OTA\Boot\CC2530DB | Modified |
| OTA_Dongle.ewd | ...\Projects\zstack\OTA\Dongle\CC2520DB | Modified |
| OTA_Dongle.ewp | ...\Projects\zstack\OTA\Dongle\CC2520DB | Modified |
| OTA_Dongle.ewd | ...\Projects\zstack\OTA\Dongle\CC2530DB | Modified |
| OTA_Dongle.ewp | ...\Projects\zstack\OTA\Dongle\CC2530DB | Modified |
| OTA_Dongle.ewd | ...\Projects\zstack\OTA\Dongle\EXP5438 | Modified |

| | | |
|--------------------|---|----------|
| OTA_Dongle.ewp | ...\Projects\zstack\OTA\Dongle\EXP5438 | Modified |
| OSAL_OTA_Dongle.c | ...\Projects\zstack\OTA\Dongle\Source | Modified |
| OTA_Dongle.c | ...\Projects\zstack\OTA\Dongle\Source | Modified |
| OTA_Dongle.h | ...\Projects\zstack\OTA\Dongle\Source | Modified |
| OTA_Dongle_data.c | ...\Projects\zstack\OTA\Dongle\Source | Modified |
| ota_common.c | ...\Projects\zstack\OTA\Source | Modified |
| ota_common.h | ...\Projects\zstack\OTA\Source | Modified |
| ota_signature.c | ...\Projects\zstack\OTA\Source | Modified |
| ota_signature.h | ...\Projects\zstack\OTA\Source | Modified |
| GenericApp.ewd | ...\Projects\zstack\Samples\GenericApp\CC2520DB | Modified |
| GenericApp.ewp | ...\Projects\zstack\Samples\GenericApp\CC2520DB | Modified |
| GenericApp.ewd | ...\Projects\zstack\Samples\GenericApp\CC2530DB | Modified |
| GenericApp.ewp | ...\Projects\zstack\Samples\GenericApp\CC2530DB | Modified |
| GenericApp.ewd | ...\Projects\zstack\Samples\GenericApp\EXP5438 | Modified |
| GenericApp.ewp | ...\Projects\zstack\Samples\GenericApp\EXP5438 | Modified |
| | ...\Projects\zstack\Samples\GenericApp\LM3S8962 | Removed |
| GenericApp.ewd | ...\Projects\zstack\Samples\GenericApp\LM3S9B96 | Modified |
| GenericApp.ewp | ...\Projects\zstack\Samples\GenericApp\LM3S9B96 | Modified |
| SampleApp.ewd | ...\Projects\zstack\Samples\SampleApp\CC2520DB | Modified |
| SampleApp.ewp | ...\Projects\zstack\Samples\SampleApp\CC2520DB | Modified |
| SampleApp.ewd | ...\Projects\zstack\Samples\SampleApp\CC2530DB | Modified |
| SampleApp.ewp | ...\Projects\zstack\Samples\SampleApp\CC2530DB | Modified |
| SampleApp.ewd | ...\Projects\zstack\Samples\SampleApp\EXP5438 | Modified |
| SampleApp.ewp | ...\Projects\zstack\Samples\SampleApp\EXP5438 | Modified |
| | ...\Projects\zstack\Samples\SampleApp\LM3S8962 | Removed |
| SampleApp.ewp | ...\Projects\zstack\Samples\SampleApp\LM3S9B96 | Modified |
| SimpleApp.ewd | ...\Projects\zstack\Samples\SimpleApp\CC2520DB | Modified |
| SimpleApp.ewp | ...\Projects\zstack\Samples\SimpleApp\CC2520DB | Modified |
| SimpleApp.ewp | ...\Projects\zstack\Samples\SimpleApp\CC2520DB | Modified |
| SimpleApp.ewd | ...\Projects\zstack\Samples\SimpleApp\CC2530DB | Modified |
| SimpleApp.ewp | ...\Projects\zstack\Samples\SimpleApp\CC2530DB | Modified |
| SimpleApp.ewd | ...\Projects\zstack\Samples\SimpleApp\EXP5438 | Modified |
| SimpleApp.ewp | ...\Projects\zstack\Samples\SimpleApp\EXP5438 | Modified |
| SampleApp.ewd | ...\Projects\zstack\SE\SampleApp\CC2520DB | Modified |
| SampleApp.ewp | ...\Projects\zstack\SE\SampleApp\CC2520DB | Modified |
| SampleApp.ewd | ...\Projects\zstack\SE\SampleApp\CC2530DB | Modified |
| SampleApp.ewp | ...\Projects\zstack\SE\SampleApp\CC2530DB | Modified |
| SampleApp.ewd | ...\Projects\zstack\SE\SampleApp\EXP5438 | Modified |
| SampleApp.ewp | ...\Projects\zstack\SE\SampleApp\EXP5438 | Modified |
| | ...\Projects\zstack\SE\SampleApp\LM3S8962 | Removed |
| SampleApp.ewd | ...\Projects\zstack\SE\SampleApp\LM3S9B96 | Modified |
| SampleApp.ewp | ...\Projects\zstack\SE\SampleApp\LM3S9B96 | Modified |
| esp.c | ...\Projects\zstack\SE\SampleApp\Source\ESP | Modified |
| esp.h | ...\Projects\zstack\SE\SampleApp\Source\ESP | Modified |
| esp_data.c | ...\Projects\zstack\SE\SampleApp\Source\ESP | Modified |
| ipd.c | ...\Projects\zstack\SE\SampleApp\Source\IPD | Modified |
| ipd.h | ...\Projects\zstack\SE\SampleApp\Source\IPD | Modified |
| ipd_data.c | ...\Projects\zstack\SE\SampleApp\Source\IPD | Modified |
| ipd.c | ...\Projects\zstack\SE\SampleApp\Source\IPD_OTA | Modified |
| loadcontrol.c | ...\Projects\zstack\SE\SampleApp\Source\LoadControl | Modified |
| pct.c | ...\Projects\zstack\SE\SampleApp\Source\PCT | Modified |
| simplemeter.c | ...\Projects\zstack\SE\SampleApp\Source\SimpleMeter | Modified |
| simplemeter.h | ...\Projects\zstack\SE\SampleApp\Source\SimpleMeter | Modified |
| Simplemeter_data.c | ...\Projects\zstack\SE\SampleApp\Source\SimpleMeter | Modified |

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|------------------|---|----------|
| cc2530-sb.xcl | ...\Projects\zstack\Tools\CC2530DB | Modified |
| f8wConfig.cfg | ...\Projects\zstack\Tools\CC2530DB | Modified |
| f8wZCL.cfg | ...\Projects\zstack\Tools\CC2530DB | Modified |
| OtaConverter.exe | ...\Projects\zstack\Tools\CC2530DB | Modified |
| f8wZCL.cfg | ...\Projects\zstack\Tools\LM3Sxxxx | Modified |
| lm3s8962.icf | ...\Projects\zstack\Tools\LM3Sxxxx | Removed |
| f8wConfig.cfg | ...\Projects\zstack\Tools\MSP2618 | Modified |
| f8wZCL.cfg | ...\Projects\zstack\Tools\MSP2618 | Modified |
| OtaConverter.exe | ...\Projects\zstack\Tools\MSP2618 | Modified |
| f8wConfig.cfg | ...\Projects\zstack\Tools\MSP5438 | Modified |
| f8wZCL.cfg | ...\Projects\zstack\Tools\MSP5438 | Modified |
| OtaConverter.exe | ...\Projects\zstack\Tools\MSP5438 | Modified |
| Boot.ewd | ...\Projects\zstack\Utilities\BootLoad\CC2530 | Modified |
| Boot.ewp | ...\Projects\zstack\Utilities\BootLoad\CC2530 | Modified |
| sb_main.c | ...\Projects\zstack\Utilities\BootLoad\CC2530\source | Modified |
| Boot.ewd | ...\Projects\zstack\Utilities\BootLoad\CC2530ZNP | Modified |
| Boot.ewp | ...\Projects\zstack\Utilities\BootLoad\CC2530ZNP | Modified |
| sb_main.c | ...\Projects\zstack\Utilities\BootLoad\CC2530ZNP\source | Modified |
| Boot.ewd | ...\Projects\zstack\Utilities\BootLoad\CC2531 | Modified |
| Boot.ewp | ...\Projects\zstack\Utilities\BootLoad\CC2531 | Modified |
| sb_main.c | ...\Projects\zstack\Utilities\BootLoad\CC2531\source | Modified |
| MT_TASK.c | ...\Projects\zstack\Utilities\OAD\Source | Modified |
| oad_app.c | ...\Projects\zstack\Utilities\OAD\Source | Modified |
| Dongle.ewd | ...\Projects\zstack\Utilities\OAD\CC2520DB | Modified |
| Dongle.ewp | ...\Projects\zstack\Utilities\OAD\CC2520DB | Modified |
| Boot.ewd | ...\Projects\zstack\Utilities\OAD\CC2530DB | Modified |
| Boot.ewp | ...\Projects\zstack\Utilities\OAD\CC2530DB | Modified |
| Dongle.ewd | ...\Projects\zstack\Utilities\OAD\CC2530DB | Modified |
| Dongle.ewp | ...\Projects\zstack\Utilities\OAD\CC2530DB | Modified |
| Dongle.eww | ...\Projects\zstack\Utilities\OAD\CC2530DB | Modified |
| Dongle.ewd | ...\Projects\zstack\Utilities\OAD\EXP5438 | Modified |
| Dongle.ewp | ...\Projects\zstack\Utilities\OAD\EXP5438 | Modified |
| SerialApp.ewd | ...\Projects\zstack\Utilities\SerialApp\CC2520DB | Modified |
| SerialApp.ewp | ...\Projects\zstack\Utilities\SerialApp\CC2520DB | Modified |
| SerialApp.ewd | ...\Projects\zstack\Utilities\SerialApp\CC2530DB | Modified |
| SerialApp.ewp | ...\Projects\zstack\Utilities\SerialApp\CC2530DB | Modified |
| SerialApp.ewd | ...\Projects\zstack\Utilities\SerialApp\EXP5438 | Modified |
| SerialApp.ewp | ...\Projects\zstack\Utilities\SerialApp\EXP5438 | Modified |
| TransmitApp.ewd | ...\Projects\zstack\Utilities\Transmit\CC2520DB | Modified |
| TransmitApp.ewp | ...\Projects\zstack\Utilities\Transmit\CC2520DB | Modified |
| TransmitApp.ewd | ...\Projects\zstack\Utilities\Transmit\CC2530DB | Modified |
| TransmitApp.ewp | ...\Projects\zstack\Utilities\Transmit\CC2530DB | Modified |
| TransmitApp.ewd | ...\Projects\zstack\Utilities\Transmit\EXP5438 | Modified |
| TransmitApp.ewp | ...\Projects\zstack\Utilities\Transmit\EXP5438 | Modified |
| TransmitApp.c | ...\Projects\zstack\Utilities\Transmit\Source | Modified |
| | ...\Projects\zstack\ZBA | New |
| | ...\Projects\zstack\ZBA\CCServer | New |
| | ...\Projects\zstack\ZBA\CCServer\CC2520DB | New |
| CCServer.ewd | ...\Projects\zstack\ZBA\CCServer\CC2520DB | New |
| CCServer.ewp | ...\Projects\zstack\ZBA\CCServer\CC2520DB | New |
| CCServer.eww | ...\Projects\zstack\ZBA\CCServer\CC2520DB | New |
| | ...\Projects\zstack\ZBA\CCServer\CC2530DB | New |
| CCServer.ewd | ...\Projects\zstack\ZBA\CCServer\CC2530DB | New |
| CCServer.ewp | ...\Projects\zstack\ZBA\CCServer\CC2530DB | New |

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| CCServer.eww | ...\Projects\zstack\ZBA\CCServer\CC2530DB | New |
| | ...\Projects\zstack\ZBA\CCServer\EXP5438 | New |
| CCServer.ewd | ...\Projects\zstack\ZBA\CCServer\EXP5438 | New |
| CCServer.ewp | ...\Projects\zstack\ZBA\CCServer\EXP5438 | New |
| CCServer.eww | ...\Projects\zstack\ZBA\CCServer\EXP5438 | New |
| | ...\Projects\zstack\ZBA\CCServer\Source | New |
| OSAL_CCServer.c | ...\Projects\zstack\ZBA\CCServer\Source | New |
| zcl_ccserver.c | ...\Projects\zstack\ZBA\CCServer\Source | New |
| zcl_ccserver.h | ...\Projects\zstack\ZBA\CCServer\Source | New |
| zcl_ccserver_data.c | ...\Projects\zstack\ZBA\CCServer\Source | New |
| | ...\Projects\zstack\ZBA\Source | New |
| zba.c | ...\Projects\zstack\ZBA\Source | New |
| zba.h | ...\Projects\zstack\ZBA\Source | New |
| OnBoard.h | ...\Projects\zstack\ZMain\LM3Sxxx | Modified |
| OnBoard.h | ...\Projects\zstack\ZMain\TI2530ZNP | Modified |
| CC2530.ewd | ...\Projects\zstack\ZNP\CC253x | Modified |
| CC2530.ewp | ...\Projects\zstack\ZNP\CC253x | Modified |
| CC2531.ewd | ...\Projects\zstack\ZNP\CC253x | Modified |
| CC2531.ewp | ...\Projects\zstack\ZNP\CC253x | Modified |
| znp.eww | ...\Projects\zstack\ZNP\CC253x | Modified |
| CC2530ZNP-SB.hex | ...\Projects\zstack\ZNP\CC253x\bin | Modified |
| CC2531SB.hex | ...\Projects\zstack\ZNP\CC253x\bin | Modified |
| znp_app.c | ...\Projects\zstack\ZNP\Source | Modified |
| znp_app.h | ...\Projects\zstack\ZNP\Source | Modified |
| OtaServer.exe | ...\Tools\OTA\Console | Modified |
| Converter.exe | ...\Tools\OTA\Converter | Modified |
| TI.CommonLib.dll | ...\Tools\Z-Tool | Modified |
| TI.ZCmdMatchings.dll | ...\Tools\Z-Tool | Modified |
| TI.ZPI.dll | ...\Tools\Z-Tool | Modified |
| TI.ZPI.xml | ...\Tools\Z-Tool | Modified |
| TI.ZPortLib.dll | ...\Tools\Z-Tool | Modified |
| TI.ZScript.dll | ...\Tools\Z-Tool | Modified |
| Z-Tool 2.0.exe | ...\Tools\Z-Tool | Modified |
| ZPI Help.chm | ...\Tools\Z-Tool | Modified |

Note: any items marked as **New*** are not newly created, just moved out of the library, providing source to the user.