MCUXpresso SDK Release Notes Supporting lpcxpresso55s36

Change Logs

NXP Semiconductors

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1 Driver Change Log

COMMON

The current COMMON driver version is 2.4.0.

- 2.4.0
  - New Features
    - Added EnableIRQWithPriority, IRQ_SetPriority, and IRQ_ClearPendingIRQ for ARM.
    - Added MSDK_EnableCpuCycleCounter, MSDK_GetCpuCycleCount for ARM.
- 2.3.3
  - New Features
    - Added NETC into status group.
- 2.3.2
  - Improvements
    - Make driver aarch64 compatible
- 2.3.1
  - Bug Fixes
    - Fixed MAKE_VERSION overflow on 16-bit platforms.
- 2.3.0
  - Improvements
    - Split the driver to common part and CPU architecture related part.
- 2.2.10
  - Bug Fixes
    - Fixed the ATOMIC macros build error in cpp files.
- 2.2.9
  - Bug Fixes
    - Fixed MISRA C-2012 issue, 5.6, 5.8, 8.4, 8.5, 8.6, 10.1, 10.4, 17.7, 21.3.
    - Fixed SDK_Malloc issue that not allocate memory with required size.
- 2.2.8
  - Improvements
    - Included stddef.h header file for MDK tool chain.
  - New Features:
    - Added atomic modification macros.
- 2.2.7
  - Other Change
    - Added MECC status group definition.
- 2.2.6
  - Other Change
    - Added more status group definition.
  - Bug Fixes
    - Undef __VECTOR_TABLE to avoid duplicate definition in cmsis_clang.h
- 2.2.5
  - Bug Fixes

        - Fixed MISRA C-2012 rule-15.5.
- 2.2.4
    - Bug Fixes
        - Fixed MISRA C-2012 rule-10.4.
- 2.2.3
    - New Features
        - Provided better accuracy of SDK_DelayAtLeastUs with DWT, use macro SDK_DELAY_USE_DWT to enable this feature.
        - Modified the Cortex-M7 delay count divisor based on latest tests on RT series boards, this setting lets result be closer to actual delay time.
- 2.2.2
    - New Features
        - Added include RTE_Components.h for CMSIS pack RTE.
- 2.2.1
    - Bug Fixes
        - Fixed violation of MISRA C-2012 Rule 3.1, 10.1, 10.3, 10.4, 11.6, 11.9.
- 2.2.0
    - New Features
        - Moved SDK_DelayAtLeastUs function from clock driver to common driver.
- 2.1.4
    - New Features
        - Added OTFAD into status group.
- 2.1.3
    - Bug Fixes
        - MISRA C-2012 issue fixed.
            - Fixed the rule: rule-10.3.
- 2.1.2
    - Improvements
        - Add SUPPRESS_FALL_THROUGH_WARNING() macro for the usage of suppressing fallthrough warning.
- 2.1.1
    - Bug Fixes
        - Deleted and optimized repeated macro.
- 2.1.0
    - New Features
        - Added IRQ operation for XCC toolchain.
        - Added group IDs for newly supported drivers.
- 2.0.2
    - Bug Fixes
        - MISRA C-2012 issue fixed.
            - Fixed the rule: rule-10.4.
- 2.0.1
    - Improvements
        - Removed the implementation of LPC8XX Enable/DisableDeepSleepIRQ() function.
        - Added new feature macro switch "FSL_FEATURE_HAS_NO_NONCACHEABLE_S-

ECTION" for specific SoCs which have no noncacheable sections, that helps avoid an unnecessary complex in link file and the startup file.
    - Updated the align(x) to **attribute**(aligned(x)) to support MDK v6 armclang compiler.
- 2.0.0
  - Initial version.

LPADC

The current LPADC driver version is 2.6.2.

- 2.6.2
  - Bug Fixes -Fixed the violations of MISRA C-2012 rules. -Fixed LPADC driver code compile error issue.
- 2.6.1
  - Improvements
    - Updated the use of macros in the driver code.
- 2.6.0
  - Improvements
    - Added the API LPADC_SetOffset12BitValue() to configure 12bit ADC conversion offset trim value manually.
    - Added the API LPADC_SetOffset16BitValue() to configure 16bit ADC conversion offset trim value manually.
    - Added API to set offset calibration mode.
    - Added configuration of alternate channel.
    - Updated auto calibration API and added calibration value conversion API.
  - New feature
    - Added API LPADC_EnableHardwareTriggerCommandSelection() to enable trigger commands controlled by ADC_ETC.
    - Updated LPADC_DoAutoCalibration() to allow doing something else before the ADC inititialization to be totally complete. Enhance initialization duration time of the ADC.
    - Added two new APIs to get/set calibration value.
- 2.5.2
  - Improvements
    - Added while loop, LPADC_GetConvResult() will return only when the FIFO will not be empty.
- 2.5.1
  - Bug Fixes
    - Fixed some typos in Lpadc driver comments.
- 2.5.0
  - Improvements
    - Added missing items to enable trigger interrupts.
- 2.4.0
  - New features
    - Added APIs to get/clear trigger status flags.

- 2.3.0
  - Improvements
    - Removed LPADC_MeasureTemperature() function for the LPADC supports different temperature sensor calculation equations.
- 2.2.1
  - Improvements
    - Optimized LPADC_MeasureTemperature() function to support the specific series with flash solidified calibration value.
    - Clean doxygen warnings.
  - Bug Fixes
    - Fixed violations of MISRA C-2012 rule 10.3, rule 10.8 and rule 17.7.
- 2.2.0
  - New Feature
    - Added API LPADC_MeasureTemperature() to get correct temperature from the internal sensor.
  - Improvements
    - Separated lpadc_conversion_resolution_mode_t with related feature macro.
  - Bug Fixes
    - Fixed the violations of MISRA C-2012 rules:
      - Rule 10.3, 10.4, 10.6, 10.7 and 17.7.
- 2.1.1
  - Improvements
    - Updated the gain calibration formula.
    - Used feature to segregate the new item kLPADC_TriggerPriorityPreemptSubsequently.
- 2.1.0
  - New Features
    - Added the API LPADC_SetOffsetValue() to support configure offset trim value manually.
    - Added the API LPADC_DoOffsetCalibration() to do offset calibration independently.
  - Improvements
    - Improved the usage of macros and removed invalid macros.
- 2.0.2
  - Improvements
    - Added support for platforms with 2 FIFOs and different calibration measures.
- 2.0.1
  - Bug Fixes
    - Ensured the API LPADC_SetConvCommandConfig configure related registers correctly.
- 2.0.0
  - Initial version.

PRINCE

The current PRINCE driver version is 2.5.1.

- Version 2.6.0

  - Renamed CSS to ELS.
- Version 2.5.1
  - Fix build error due to renamed symbols.
- Version 2.3.2
  - Fix documentation of enumeration.
  - Extend PRINCE example.
- Version 2.3.1
  - Fix MISRA-2012 issues.
  - Add support for LPC55S0x series
- Version 2.3.0
  - Add support for LPC55S1x and LPC55S2x series
- Version 2.2.0
  - Add runtime checking of the A0 and A1 rev. of LPC55Sxx serie to support both silicone revisions.
- Version 2.1.0
  - Update for the A1 rev. of LPC55Sxx serie.
- 2.0.0
  - Initial version.

RNG

The current RNG driver version is 2.0.3.

- 2.0.3
  - Modified RNG_Init and RNG_GetRandomData functions, added rng_accumulateEntropy and rng_readEntropy functions. These changes are reflecting recommended usage of RNG according to device UM
- 2.0.2
  - Add RESET_PeripheralReset function inside RNG_Init and RNG_Deinit functions.
- 2.0.1
  - Fix MISRA C-2012 issue.
- 2.0.0
  - Initial version.

2 Middleware Change Log

emWin library

The currently supported version is 6.32b

- v6.28_rev1
  - add cm33_nodsp_fpu libraries for Cortec M33 without DSP extension with SP FPU
- v6.28
  - upgraded to v6.28
- v6.24_rev2
  - add cm33_nodsp libraries for Cortex M33 without DSP extension
- v6.24_rev1
  - recompiled cm33 library with fpu single precision
  - added cm7_sp library for Cortex M7 with sp fpu for IAR
- v6.24
  - upgraded to v6.24
- v6.16c
  - upgraded to v6.16c
  - updated temperature_control demo generated by AppWizard
- v6.14d
  - upgraded to v6.14d
- v6.10f
  - upgraded to v6.10f

FatFs for MCUXpresso SDK

Current version is FatFs R0.14b_rev0.

- R0.14b_rev1
  - Applied patches from http://elm-chan.org/fsw/ff/patches.html
- R0.14b_rev0
  - Upgraded to version 0.14b
- R0.14a_rev0
  - Upgraded to version 0.14a
  - Applied patch ff14a_p1.diff and ff14a_p2.diff
- R0.14_rev0
  - Upgraded to version 0.14
  - Applied patch ff14_p1.diff and ff14_p2.diff
- R0.13c_rev0
  - Upgraded to version 0.13c
  - Applied patches ff_13c_p1.diff,ff_13c_p2.diff, ff_13c_p3.diff and ff_13c_p4.diff.
- R0.13b_rev0
  - Upgraded to version 0.13b

- R0.13a_rev0
  - Upgraded to version 0.13a. Added patch ff_13a_p1.diff.
- R0.12c_rev1
  - Add NAND disk support.
- R0.12c_rev0
  - Upgraded to version 0.12c and applied patches ff_12c_p1.diff and ff_12c_p2.diff.
- R0.12b_rev0
  - Upgraded to version 0.12b.
- R0.11a
  - Added glue functions for low-level drivers (SDHC, SDSPI, RAM, MMC). Modified diskio.c.
  - Added RTOS wrappers to make FatFs thread safe. Modified syscall.c.
  - Renamed ffconf.h to ffconf_template.h. Each application should contain its own ffconf.h.
  - Included ffconf.h into diskio.c to enable the selection of physical disk from ffconf.h by macro definition.
  - Conditional compilation of physical disk interfaces in diskio.c.

FreeMASTER Communication Driver

Current version is 3.0.6. Visit https://www.nxp.com/freemaster for more information. Reach out for a support at https://community.nxp.com/community/freemaster.

- 3.0.0
  - Initial version of FreeMASTER driver reworked from a standalone package to MCUXpresso SDK middleware.
  - This driver version supports new version V4 of FreeMASTER serial communication protocol.
  - Supports UART, LPUART, USART, MINIUSART, FlexCAN, USB-CDC and JTAG/BDM communication.
  - Initial version was tested with the following boards: evkmimxrt1060, frdmk64f, frdmke15z, frdmkl28z, lpcxpresso54628 lpcxpresso55s69, lpcxpresso845max and twrk64f120m.
  - Use with FreeMASTER PC Host tool version 2.5 or later.
- 3.0.1
  - FreeMASTER driver extended to support wide range of Kinetis, LPC and i.MX-RT platforms.
  - Low-level communication drivers also available for few non-SDK NXP platforms like S12Z, S32x and more.
  - Use with FreeMASTER PC Host tool version 3.0 or later.
- 3.0.2
  - FreeMASTER driver support of DSC56F800EX and S12 platforms extended.
  - Removed dependency on C99 compiler features.
  - Use with FreeMASTER PC Host tool version 3.0.2 or later.
- 3.0.3
  - General update for SDK 2.9.0
  - fmstr_any demo added to selected platforms - use with MCUXpresso SDK and FreeMASTER peripheral configuration tool.
  - New example.pmp project file embedded into application flash storage.

  - USB-CDC implementation fixed, new JTAG EOnCE communication interface added to DSC 56F800E family.
  - Use with FreeMASTER PC Host tool version 3.0.3 or later. Version 3.1.x is recommended.
- 3.0.4
  - Fixed component dependency logic of FreeMASTER driver.
  - Use with FreeMASTER PC Host tool version 3.1.x
- 3.0.5
  - General update for SDK 2.11 and 2.12
  - New TCP and UDP support with lwIP stack
  - New communication over Segger RTT interface
  - Add fmstr_net and fmstr_wifi examples for selected i.MX-RT platforms
  - Add fmstr_rtt example for selected platforms
  - Fixed negative recorder threshold trigger processing
- 3.0.6
  - General update for SDK 2.13
  - Use of new Ethernet MDIO driver concept.
  - Support of ENET and NETC Ethernet modules in the fmstr_net example application.
- 3.0.7
  - General update for SDK 2.14

mbedTLS for MCUXpresso SDK

The current version of mbedTLS is based on mbed TLS 2.28.3 branch released 2023-03-28

- 2.28.1
  - New features:
    - Ported mbedTLS 2.28.3 to SDK.
- 2.28.1
  - New features:
    - Ported mbedTLS 2.28.1 to SDK.
- 2.28.0
  - New features:
    - Ported mbedTLS 2.28.0 to SDK.
- 2.27.0
  - New features:
    - Ported mbedTLS 2.27.0 to SDK.
- 2.26.0
  - New features:
    - Ported mbedTLS 2.26.0 to SDK.

2.16.6_rev7

- Bug fixes:
  - Corrected definition of global variable g_isCryptoHWInitialized to be only internal static variable in sssapi_mbedtls.c file.

2.16.6_rev6

- Bug fixes:
  - Adding #ifdef in ecdsa.c to remove warning: "function "derive_mpi" was declared but never referenced", when alternative implementation of ECDSA sign and verify is used and not used Deterministic ECDSA, then was derive_mpi function never used.

NTAG I2C plus library

The current version is 1.0.0.

- 1.0.0
  - initial release.

Trusted Firmware M (TF-M) for MCUXpresso SDK

The current version is based on TF-M v1.8.0, released 2023-04-27(35ac80c8581d483da7d18cb8bcd20aaed096550c) on https://git.trustedfirmware.org/TF-M/trusted-firmware-m.git

- 1.8.0
  - Ported TF-M v1.8.0 to MCUXpresso SDK. Based on the 2023-04-27 snapshot(35ac80c8581d483da7d18cb
  - Added lpcxpresso55s36 platform.
- 1.7.0
  - Ported TF-M v1.7.0 to MCUXpresso SDK. Based on the 2023-04-04 snapshot(60c4936a7bb3f56bdb50b0
  - Added lpcxpresso55s36 platform.
- 1.6.0
  - Ported TF-M v1.6.0 to MCUXpresso SDK. Based on the 2022-08-29 snapshot(a5048fb687e4fbf28f9aac69
  - Added lpcxpresso55s36 platform.
- 1.5.0
  - Ported TF-M v1.5.0 to MCUXpresso SDK. Based on the 2022-03-11 snapshot(47c26ecd0dec177fe2ddf82
- 1.4.0
  - Ported TF-M v1.4.0 to MCUXpresso SDK. Based on the 2021-08-30 snapshot(00c1106624d733aade4486
- 1.3.0
  - Ported TF-M v1.3.0 to MCUXpresso SDK. Based on the 2021-04-13 snapshot(cad01ab98c34bb3a13ab49c
  - Added evkmimxrt685 platform.
  - Added evkmimxrt595 platform.
- 1.1
  - Ported TF-M v1.1 to MCUXpresso SDK. Based on the 2020-08-19 snapshot(54507b1645087e92b5a11591
- 1.0 Rev3
  - Ported TF-M v1.0 to MCUXpresso SDK. Based on the 2020-04-20 snapshot(1e089705899ff68c617cc0c01
  - Added HUK derivation function.
- 1.0 Rev2
  - Ported TF-M v1.0 to MCUXpresso SDK. Based on the 2020-04-06 snapshot(d4ac5d14e74d1aa2a78526aa8
  - Added the LPC55S Flash module support for ITS and PS.
  - Added lpcxpresso55s16 platform.

- 1.0 Rev1
  - Ported TF-M v1.0-RC1 to MCUXpresso SDK. Based on the 2019-09-23 snapshot(011c0ad0e76d62bd6f2d
  - Added MCUx and GCC demo applications.
  - Added PSA test suite application.
  - Used mbedCrypto instead of mbedTLS
- 1.0
  - Ported TF-M v1.0-beta to MCUXpresso SDK. Based on the 2019-03-13 snapshot(a5a2a5bc32bc50f4def8d
  - Added lpcxpresso55s69 platform.
  - Added MDK demo applications.
  - Bug Fixes:
    - Fixed compilation warnings and errors.
    - Changes in the TF-M original source code are marked by the "NXP" comment.

USB stack for MCUXpresso SDK

The current version of USB stack is 2.8.4.

- 2.8.4
  - Improvement:
    - Add the new netc adatper for the new netc driver.
    - Fix issues for USB device dfu and usb device msc when enable the macro USB_DEVICE_CONFIG_RETURN_VALUE_CHECK.
    - Change the header file including order for usb.h header.
    - Update the USB host audio class driver to fix the wrong output log.
    - Add the workaround on dev_hid_mouse_bm case for the errata TN00071.
    - Enable ROOT2 macro in USB device stack.
    - Use an unified definiton for the base address of RTxxxx platforms.
- 2.8.3
  - Improvement:
    - Update the EHCI controller driver to support the address convert for TCM.
    - Update the USB host EHCI controller driver to make sure the mutual exclusion access under multiple tasks' environment.
- 2.8.2
  - Improvement:
    - Fix noise issue of UAC 3.1, UAC 5.1, UAC 7.1 on usb audio speaker demo.
    - Fix the issue that incorrect PC behavior when ejecting USB MSC devices.
    - Update the EHCI controller driver to support RW610 that does not reply on PHY driver, especially for low power feature.
    - Update the USB_HostHelperParseAlternateSetting to fix the wrong interface parse.
    - Update dev_composite_hid_audio_unified_bm demo to suppport independent mute/unmute and volume control.
- 2.8.1
  - Improvement:
    - update USB audio demos to use audio component (components).

    - Add the checking of function call return value.
    - Add audio multiple channels demo (usb_device_composite_audio_multi_ch_unified) on RT600 audio board.
    - Fix audio noise on sync mode and improve overflow/underflow checking method.
    - Support UAC 3.1, 5.1 and 7.1 on audio speaker demo.
    - Set USB device CDC demo not to depend on DTR setting from host.
    - Support MCUX toolchain on some RTxxxx platforms.
- 2.8.0
  - Improvement:
    - Fix the USB device stack vulnerability issues.
    - Update the audio PLL and FRO adjustment codes for audio examples in RTxxx, LPC54xxx and LPC55xxx.
    - Improve the USB PD AMS collision avoidance.
    - Improve IP3511 controller driver's dedicated ram allocation.
    - Change the USB_DATA_ALIGN_SIZE to 4 because the controller driver uses the dedicated RAM to do memcpy.
  - New features:
    - Enable USB host audio recorder demo for mutilple boards.
- 2.7.0
  - Improvement:
    - Use new feeback solution and low latency playback for usb device speaker demo and unified demos. Add underflow and overflow protection.
    - Optimize hard code for usb audio demos.
    - Update Unconstrained Power field in the Sink Capabilities Message according to the external power state.
    - Fix CVE-2021-38258 and CVE-2021-38260
  - New features:
    - Enable USB host video demo for mutilple boards.
    - Enable USB device MTP demo for mutilple boards.
    - Add PPS message to usb pd stack.
- 2.6.1
  - Improvement:
    - rename sdcard as disk for all of sdcard demos. For ramdisk demos, they are not changed.
    - add wrapper for all of disk demos to support emmc.
- 2.6.0
  - Improvement:
    - Added more ufi event to support dynamic sdcard capacity.
    - Passed MISRA-2012 mandatory and required rules.
      - Except rule 17.2 in host hub and otg stack.
      - Except rule 5.1, rule 5.4, rule 21.1 and rule 21.2.
    - Re-implemented USB components and supported NPW.
    - Improved IP3511 controller driver's cancelling transfer function.
    - Enabled the audio2.0 defaultly for device audio demos.
    - Enabled the host audio2.0 function in host audio class driver and host audio speaker demo.
  - New features:

    - enable two USB controllers in one USB host mouse demo which named as host_hid_mouse_dual.
    - enable UAC 5.1 for usb device audio speaker demo.
- 2.5.0
  - Improvement:
    - Integrated sdk components (OSA, Timer, GPIO and serial_manager) to USB stack and demos.
    - Improved the ip3511 driver throughput.
    - Improved audio initialization codes after SDK audio drivers update.
    - Improved auido to support the audio2.0 in win10.
    - Add one "enumeration fail" callback event to host stack.
- 2.4.2
  - Improvement:
    - Put the USB controller data and transfer buffer to noncache section, removed the setting that sets the whole ocram and sdram as noncached.
    - Separated composite audio examples' channel,sample rate,format parameters from commom macro to in dedicated macro and out dedicated macro.
    - replaced USB_PrepareData with USB_AudioRecorderGetBuffer.
- 2.4.1
  - New features:
    - Added enumeration fail callback to host stack when the attached device's enumeration failed.
- 2.4.0
  - Improvement:
    - Device Charger Detection (DCD) software architecture was refactored.
  - New features:
    - Enabled Device Charger Detection (DCD) on RT1060.
    - Enabled Device Charger Detection on RT600.
    - Enabled host battery charger function on RT600.
- 2.3.0
  - New features:
    - Added host video camera support. example: usb_host_video_camera
    - Added a new device example. example: usb_device_composite_cdc_hid_audio_unified
- 2.2.0
  - New features:
    - Added device DFU support.
    - Supported OM13790DOCK on LPCXpresso54018.
    - Added multiple logical unit support in msc class driver, updated usb_device_lba_information_struct_t to support this.
    - Supported multiple transfers for host ISO on IP3516HS.
  - Bug fixes:
    - Fixed device ip3511 prime data length than maxpacket size issue.
    - Initialized interval attribute in usb_device_endpoint_struct_t/usb_device_endpoint_init_struct_t.
    - Removed unnecessary header file in device CDC class driver, removed unnecessary usb_-

echo, and added DEBUG macro for necessary usb_echo in device CDC class driver.
    - Fixed device IP3511HS unfinished interrupt transfer missing issue.
- 2.1.0
  - New features:
    - Added host RNDIS support. example: lwip_dhcp_usb
    - Enabled USB 3.0 support on device stack.
    - Power Delivery feature: Added OM13790HOST support; Added auto policy feature; Printed e-marked cable information;
- 2.0.1
  - Bug fixes:
    - Fixed some USB issues: Fixed MSC CV test failed in MSC examples.
    - Changed audio codec interfaces.
- 2.0.0
  - New features:
    - PTN5110N support.
  - Bug fix:
    - Added some comments, fixed some minor USB issues.
- 1.9.0
  - New features:
    - Examples:
      - usb_pd_alt_mode_dp_host
- 1.8.2
  - Updated license.
- 1.8.1
  - Bug fix:
    - Verified some hardware issues, support aruba_flashless.
- 1.8.0
  - New features:
    - Examples:
      - usb_device_composite_cdc_vcom_cdc_vcom
      - usb_device_composite_hid_audio_unified
      - usb_pd_sink_battery
      - Changed usb_pd_battery to usb_pd_charger_battery.
  - Bug fix:
    - Code clean up, removed some irrelevant code.
- 1.7.0
  - New features:
    - USB PD stack support.
  - Examples:
    - usb_pd
    - usb_pd_battery
    - usb_pd_source_charger
- 1.6.3
  - Bug fix: -IP3511_HS driver control transfer sequence issue, enabled 3511 ip cv test.
- 1.6.2

  - New features:
    - Multi instance support.
- 1.6.1
  - New features:
  - Changed the struct variable address method for device_video_virtual_camera and host_phdc-_manager.
- 1.6.0
  - New features:
    - Supported Device Charger Detect feature on usb_device_hid_mouse.
- 1.5.0
  - New features:
    - Supported controllers
      - OHCI (Full Speed, Host mode)
      - IP3516 (High Speed, Host mode)
      - IP3511 (High Speed, Device mode)
    - Examples:
      - usb_lpm_device_hid_mouse
      - usb_lpm_device_hid_mouse_lite
      - usb_lpm_host_hid_mouse
- 1.4.0
  - New features:
    - Examples:
      - usb_device_hid_mouse/freertos_static
      - usb_suspend_resume_device_hid_mouse_lite
- 1.3.0
  - New features:
    - Supported roles
      - OTG
    - Supported classes
      - CDC RNDIS
    - Examples
      - usb_otg_hid_mouse
      - usb_device_cdc_vnic
      - usb_suspend_resume_device_hid_mouse
      - usb_suspend_resume_host_hid_mouse
- 1.2.0
  - New features:
    - Supported controllers
      - LPC IP3511 (Full Speed, Device mode)
- 1.1.0
  - Bug fix:
    - Fixed some issues in USB certification.
    - Changed VID and Manufacturer string to NXP.
  - New features:
    - Supported classes

        - Pinter
      - Examples:
        - usb_device_composite_cdc_msc_sdcard
        - usb_device_printer_virtual_plain_text
        - usb_host_printer_plain_text
- 1.0.1
  - Bug fix:
    - Improved the efficiency of device audio speaker by changing the transfer mode from interrupt to DMA, thus providing the ability to eliminate the periodic noise.
- 1.0.0
  - New features:
    - Supported roles
      - Device
      - Host
    - Supported controllers:
      - KHCI (Full Speed)
      - EHCI (High Speed)
    - Supported classes:
      - AUDIO
      - CCID
      - CDC
      - HID
      - MSC
      - PHDC
      - VIDEO
    - Examples:
      - usb_device_audio_generator
      - usb_device_audio_speaker
      - usb_device_ccid_smart_card
      - usb_device_cdc_vcom
      - usb_device_cdc_vnic
      - usb_device_composite_cdc_msc
      - usb_device_composite_hid_audio
      - usb_device_composite_hid_mouse_hid_keyboard
      - usb_device_hid_generic
      - usb_device_hid_mouse
      - usb_device_msc_ramdisk
      - usb_device_msc_sdcard
      - usb_device_phdc_weighscale
      - usb_device_video_flexio_ov7670
      - usb_device_video_virtual_camera
      - usb_host_audio_speaker
      - usb_host_cdc
      - usb_host_hid_generic
      - usb_host_hid_mouse

- usb_host_hid_mouse_keyboard
- usb_host_msd_command
- usb_host_msd_fatfs
- usb_host_phdc_manager
- usb_keyboard2mouse
- usb_pin_detect_hid_mouse

3 Component Change Log

CODEC

The current codec common driver version is 2.3.1.

- 2.3.1
  - Bug Fixes
    - Fixed violations of MISRA C-2012 rule 16.1,16.3.
- 2.3.0
  - Improvements
    - Added enum _codec_volume_capability for CODEC_SetVolume/CODEC_SetMute to cover more volume configurations.
- 2.2.2
  - Bug Fixes
    - Fixed the typo in codec common driver.
- 2.2.1
  - Bug Fixes
    - Fixed violations of MISRA C-2012 rule 10.3, 8.3, 10.7, 17.7.
- 2.2.0
  - Improvements
    - Used HAL_CODEC_HANDLER_SIZE which is determined by low level driver instead of use CODEC_HANDLE_SIZE for the codec device handle definition.
- 2.1.1
  - Improvements
    - Supported all of the codec in the codec adapter.
    - Modified the codec handle definition to improve user experience.
    - Modified the capability member type from entity to pointer in codec handle.
  - Bug Fixes
    - Fixed the Coverity issue regrading array compared agaist 0.
- 2.1.0
  - Deprecated APIs
    - CODEC_GetMappedFormatBits
    - CODEC_I2C_WriteReg
    - CODEC_I2C_ReadReg
    - CODEC_I2C_ModifyReg
    - CODEC_SetEncoding
  - new APIs
    - CODEC_SetPower
    - CODEC_SetVolume
    - CODEC_SetMute
    - CODEC_SetPlay
    - CODEC_SetRecord
    - CODEC_SetRecordChannel

        - CODEC_ModuleControl
    - new features
        - Removed duplicate members in codec_handle_t and codec_config_t.
        - Added codec_config_t pointer in codec_handle_t.
        - Added codec capability flag in codec_handle_t.
        - Used codec adapter instead of function opinter in codec common driver.
- 2.0.1
    - Added delayMs function pointer in codec handle.
- 2.0.0
    - Initial version.

SERIAL_MANAGER

The current Serial_Manager component version is 1.0.2.

- 1.0.2
    - Add SerialManager_WriteTimeDelay()/SerialManager_ReadTimeDelay() for serial manager's read/write non-blocking mode.
- 1.0.1
    - Add prefixing fsl_component_xxx/fsl_adapter_xxx.
- 1.0.0
    - Initial version

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