ModusToolbox™ run-time software release notes

ModusToolbox™ tools package version 3.1.0

About this document

Scope and purpose

This document lists the new and updated features included with this release of ModusToolbox™ run-time software. For details about these and other features and libraries, refer to the ModusToolbox™ run-time software reference guide.

Document conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Explanation</th>
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<tbody>
<tr>
<td>Bold</td>
<td>Emphasizes heading levels, column headings, menus and sub-menus</td>
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<tr>
<td>Italics</td>
<td>Denotes file names and paths</td>
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<tr>
<td>Courier New</td>
<td>Denotes APIs, functions, interrupt handlers, events, data types,</td>
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<tr>
<td></td>
<td>error handlers, file/folder names, directories, command line</td>
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<td></td>
<td>inputs, and code snippets</td>
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<tr>
<td>File &gt; New</td>
<td>Indicates that a cascading sub-menu opens when you select a menu</td>
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</tbody>
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Reference documents

Refer to the following links for more information:

- ModusToolbox™ run-time software reference guide
- ModusToolbox™ software page on GitHub
- Code examples on GitHub
- ModusToolbox™ community webpage

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ModusToolbox™ run-time software release notes

Overview

1 Overview

With the ModusToolbox™ run-time software, you can rapidly develop applications for Infineon MCUs, as well as AIROC™ Wi-Fi and Bluetooth® devices.

2 What’s new/changed in this release

The following features and libraries have been added/changed since the previous release:

- **Features**
  - Wi-Fi based OTA update support on XMC 7000
  - 43022 device support in ModusToolbox™

- **New libraries**
  - ota-bootloader-abstraction v1.0.0

- **Updated libraries**
  - mtb-pdl-cat1 v3.9.0
  - cy-mbedtls-acceleration v2.2.0
  - cat1cm0p v1.4.0
  - wifi-host-driver v3.0.0
  - wifi-connection-manager v3.3.0
  - secure-sockets v3.4.0
  - connectivity-utilities v4.3.0
  - command-console v5.2.0
  - wifi-core-freertos-lwip-mbedtls v2.0.0
  - lwip-network-interface-integration v1.3.0
  - mqtt v4.3.0
  - http-client v1.5.0
  - http-server v3.0.0
  - ethernet-core-freertos-lwip-mbedtls v2.0.0
  - ethernet-connection-manager v1.0.1
  - aws-iot-device-sdk-port v2.4.0
  - wpa3-external-supplicant v1.2.0
  - lpa v5.1.0
  - ota-update v4.0.0
  - freertos v10.5.001
  - azure-c-sdk-port v1.4.0
What's new/changed in this release

- New BSP:
  - TARGET_CY8CEVAL-062S2-CYW43022CUB v4.2.0

- Updated BSPs
  - TARGET_CY8CKIT-062S4 v4.2.1
  - TARGET_CY8CEVAL-062S2 v4.3.0
  - TARGET_CY8CEVAL-062S2-LAI-43439M2 v4.3.0
  - TARGET_CY8CEVAL-062S2-LAI-4373M2 v4.3.0
  - TARGET_CY8CEVAL-062S2-MUR-4373M2 v4.3.0
  - TARGET_CY8CEVAL-062S2-MUR-43439M2 v4.3.1
  - TARGET_KIT_XMC72_EVK v1.2.1
  - TARGET_KIT_XMC72_EVK v2.0.1
  - TARGET_KIT_XMC72_EVK_MUR_43439M2 v1.2.1
  - TARGET_KIT_XMC72_EVK_MUR_43439M2 v2.0.1
  - KIT_XMC11_BOOT_001 v2.2.1
  - KIT_XMC12_BOOT_001 v2.2.1
  - KIT_XMC13_BOOT_001 v2.2.1
  - KIT_XMC14_BOOT_001 v2.2.1
  - KIT_XMC45_RELAX_V1 v2.2.1
  - KIT_XMC_PLT2GO_XMC4200 v2.2.1
  - KIT_XMC_PLT2GO_XMC4400 v2.2.1

- New code examples
  - mtb-example-psoc4-tfm-freertos v1.0.0
  - mtb-example-psoc4-capsense-liquid-level-sensing v1.0.0
  - mtb-example-psoc4-capsense-low-power v1.0.0

- Updated code examples
  - mtb-example-wifi-secure-tcp-client v4.5.0
  - mtb-example-wifi-secure-tcp-server v4.5.0
  - mtb-example-wifi-https-server v4.2.0
  - mtb-example-wifi-https-client v1.1.0
  - mtb-example-wifi-mqtt-client v6.2.0
  - mtb-example-psoc4-capsense-low-power v1.0.0
  - mtb-example-psoc6-dfu-basic v3.0.0
  - cce-mtb-psoc6-ubm-controller v2.0.0
  - mtb-example-psoc4-capsense-liquid-level-sensing v1.0.0
  - mtb-example-hal-hello-world v4.6.0
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- mtb-example-hal-i2c-master v3.5.0
- mtb-example-hal-spi-master v3.5.0
- mtb-example-wifi-scan v4.4.0
- mtb-example-wlan-offloads v5.2.0
- mtb-example-hal-i2c-slave v1.2.0
- mtb-example-hal-spi-slave v1.2.0
- mtb-example-wifi-wps-enrollee v3.4.0
- mtb-example-xmc7000-multicore-empty-app v1.1.0
- mtb-example-psoc6-tfm-freertos v1.0.0
- mtb-example-psoc6-dfu-basic v3.0.0
- mtb-example-ota-mqtt v7.0.0
- mtb-example-ota-https v6.0.0
- mtb-example-psoc6-mcuboot-basic v7.0.0
- PSoC™ 4: MSCLP robust low-power liquid-tolerant CAPSENSE™ v4.0.0
- PSoC™ 4: Self-cap Button Tuning v3.0.0
- PSoC™ 4: MSCLP Low Power v4.0.0
- PSoC™ 4: CSD-RM Liquid Tolerant Low Power Proximity Tuning v2.0.0
- PSoC™ 4: MSCLP Self-Capacitance Touchpad Tuning v3.0.0
- PSoC™ 4: MSCLP Mutual-Capacitance Touchpad Tuning v3.0.0
- PSoC™ 4: CSD-RM Low Power Proximity Tuning v2.0.0
- PSoC™ 4: CY8CPROTO-040T Demo v2.0.0
- PSoC™ 4: MSCLP Low Power CSD Button v2.0.0
- PSoC™ 4: MSCLP Low Power CSD Slider v2.0.0
- PSoC™ 4: MSCLP Low Power Proximity v2.0.0
- PSoC™ 4: MSCLP Low power CSX button v2.0.0
- PSoC™ 4: MSCLP Low power CSX slider v2.0.0

- Application Notes and KBA
  - PSoC™ 6 MCU dual-core system design
  - PSoC™ 64 Security Getting Started
  - PSoC™ 64: Debugging the individual cores (CM0+ and CM4)

3 Known Issues

None
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