Open-CMSIS-Packs (OCP) are an open standard delivery mechanism for software components, device parameters and evaluation board support. These software packs can include source code, libraries, documentation, device parameters and example projects. The open-standard format is accepted as a method of delivering software to popular IDEs from Arm®, IAR® and NXP which can identify available software packs and install them from public servers. OCPs use version control and metadata to ensure the correct pack is installed. The pack’s metadata helps the IDE identify related packs and configure the project. Partner software packs can specify which MCUXpresso SDK packs have been tested and are compatible.
Open-CMSIS-Packs Software Delivery Block Diagram

- Application Code and Examples
- Examples from Packs
- ADD PACK
- RTOS Pack
- Sensor Pack
- Graphics Pack
- CAN FD Pack
- Voice Pack
- eIQ Pack
- TSN Pack
- Board Support (CMSIS-BSP)
- Peripheral Drivers (CMSIS-DFP)
- Microcontroller Hardware

OCP RMC Block Diagram

- Software Packs
  - Device Family Pack (DFP)
    - Defines device properties
  - Board Support Pack (BSP)
    - Defines device properties
  - Middleware Software Pack (MSP)
    - Includes drivers, middleware, etc.

- IDE Tools
  - Target (Device, Board)
  - Build (Debug, Release)
  - Manages independent projects

- Executable Application
View additional information for Open-CMSIS-Packs.

Note: The information on this document is subject to change without notice.