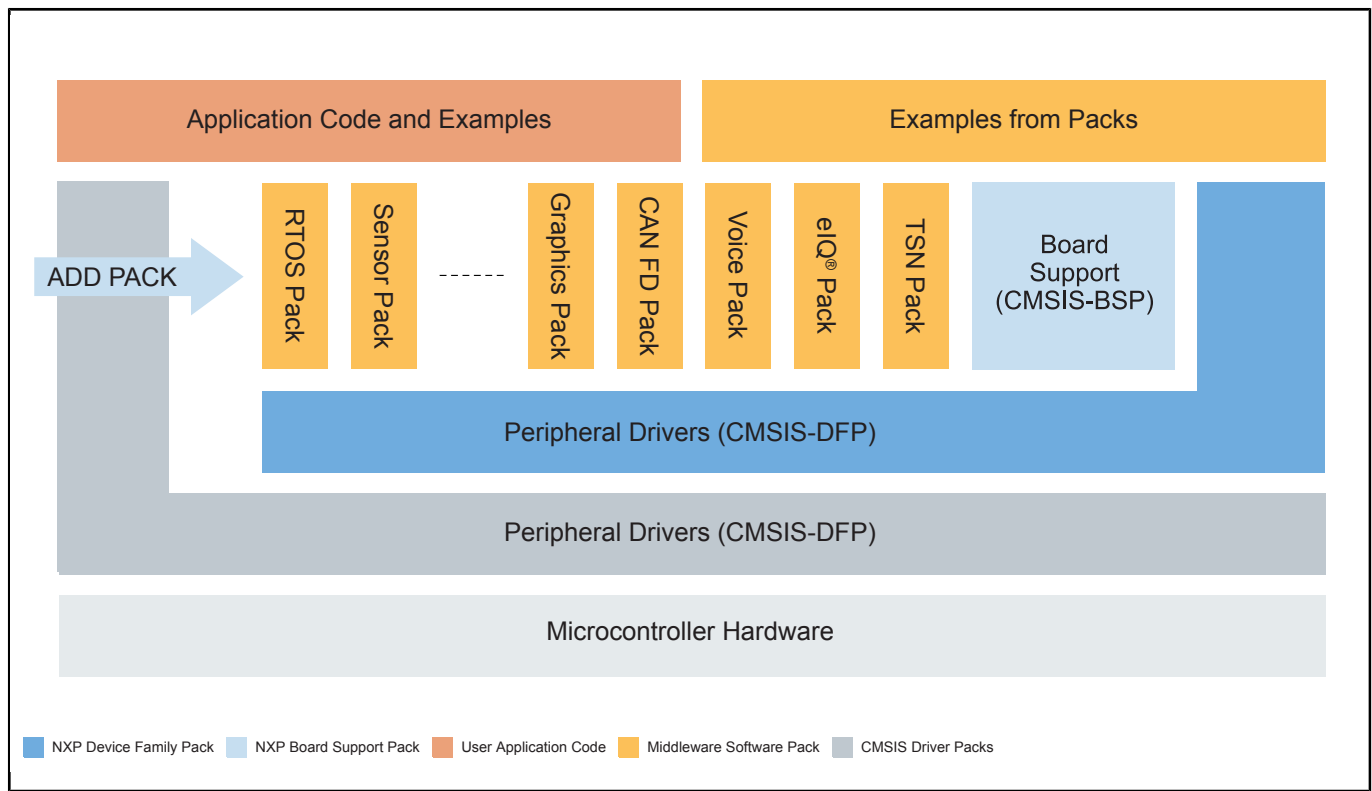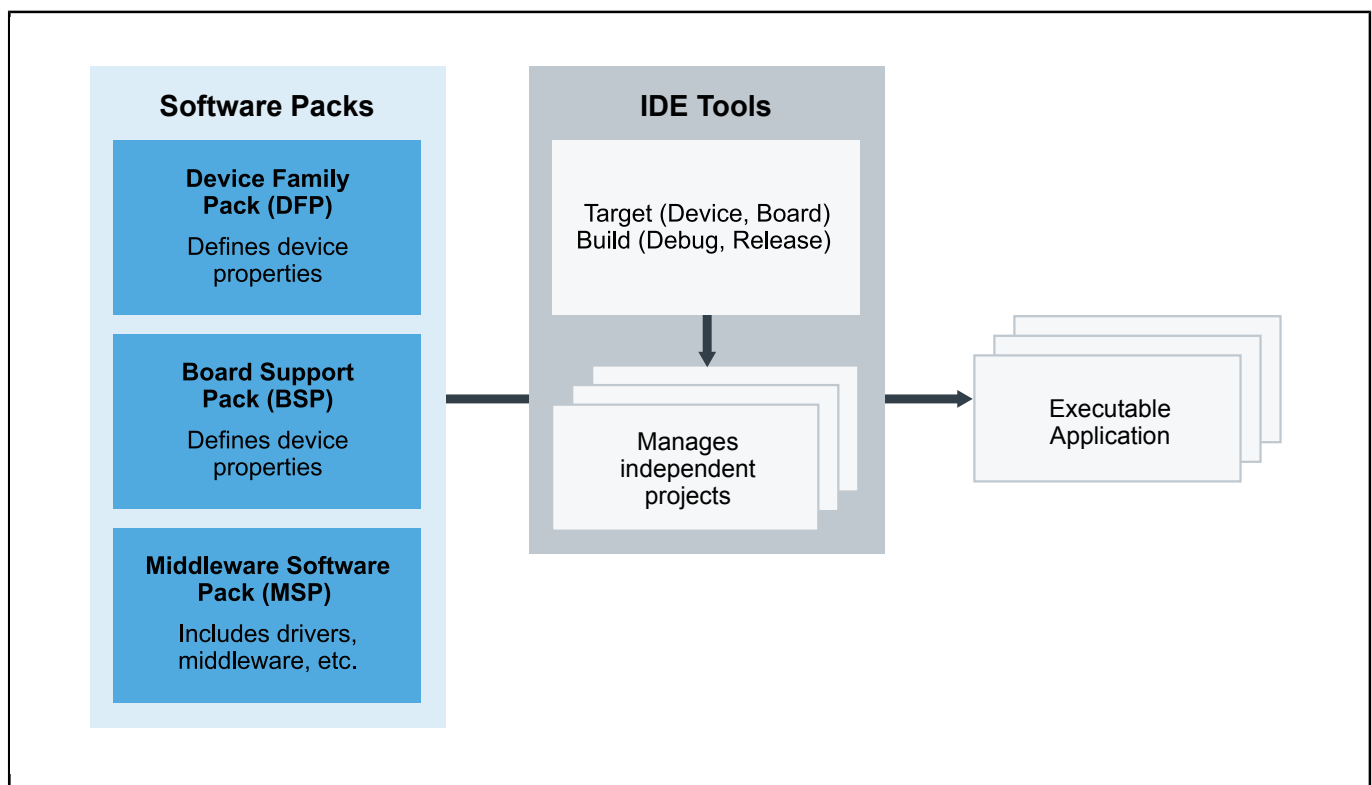# Open-CMSIS-Packs

OPEN-CMSIS-PACKS

Last Updated: Feb 6, 2025

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)

Peripheral Drivers (CMSIS-DFP)

Microcontroller Hardware

■ NXP Device Family Pack   ■ NXP Board Support Pack   ■ User Application Code   ■ Middleware Software Pack   ■ CMSIS Driver Packs

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.

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