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How to Start an Evaluation on STM32WBx

Workshop Team

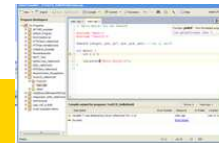


How to start with STM32WBA



Complete set of documentation
#1 understand

Powerful turnkey code examples
#2 evaluate & prototype



A complete ecosystem
#3 start design



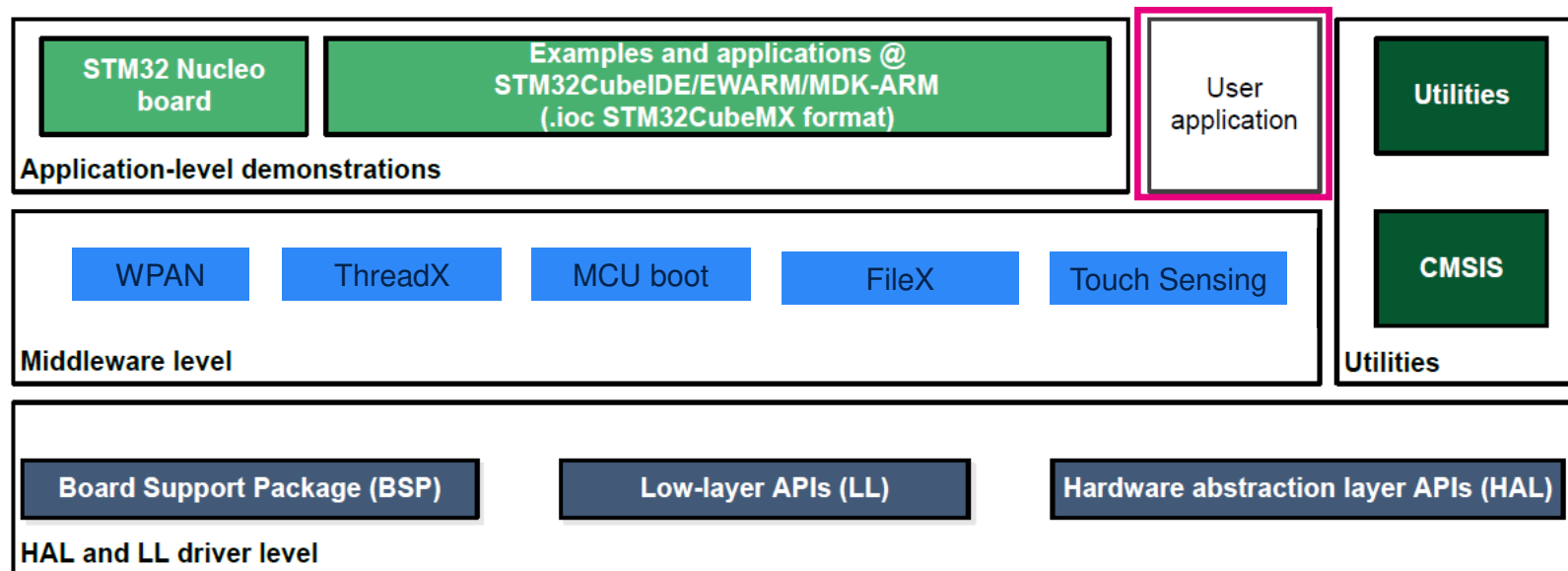
NUCLEO-WBA52CG



STM32CubeWBA

Evaluate and start with **existing code**

Package Components in a Nutshell





STM32CubeWBA

Evaluate and start based on **existing code**

STM32CubeWBA MCU Package provides software components running on STM32WBA Series MCU

- Application code : Bluetooth® Low Energy
- Peripheral code examples
- Utilities to ease application design : timer capabilities, sequencer, LCD



development environments



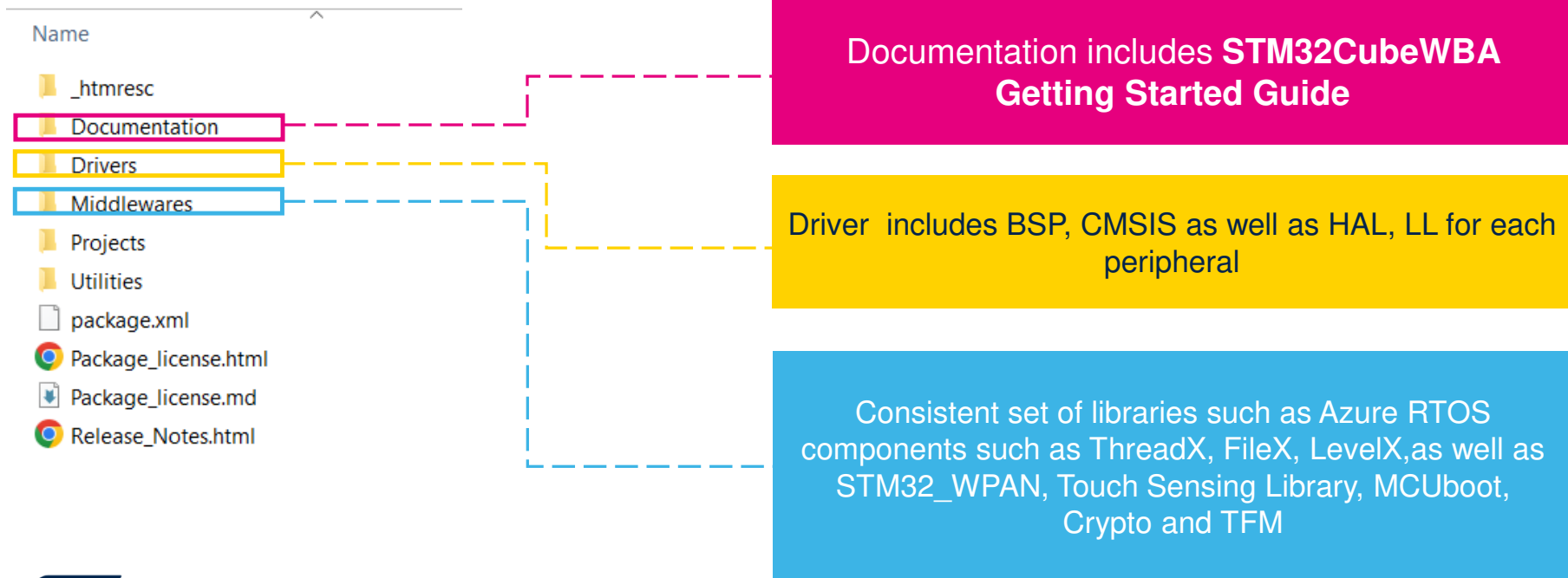
Firmware Package for the STM32WBA series is also available on [Github](#)



STM32CubeWBA

Content 1/3

STM32CubeWBA MCU folder overview

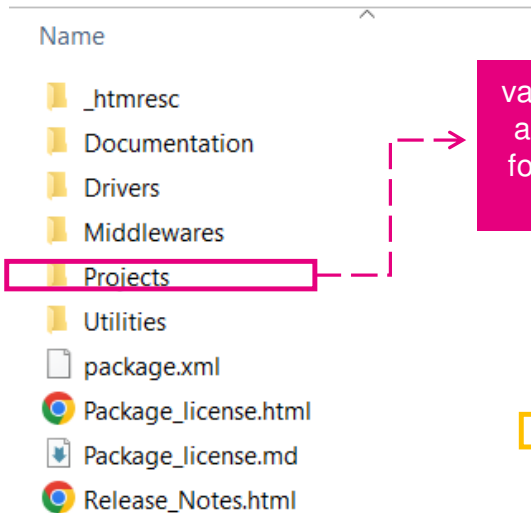




STM32CubeWBA

Content 3/3

STM32CubeWBA MCU folder overview



various **examples**
and **application**
for the evaluation
board



peripheral code
examples

- Applications
- Examples**
- Examples_LL
- Examples_MIX
- Templates
- Templates_LL

- ADC
- BSP
- CORTEX
- CRC
- CRYP
- DMA
- FLASH
- GPIO
- GTZC
- HAL
- HASH
- HSEM
- I2C
- IWDG
- LPTIM
- PKA
- PWR
- RAMCFG
- RCC
- RNG
- RTC
- SPI
- TIM
- UART
- USART
- WWDG
- LICENSE.txt

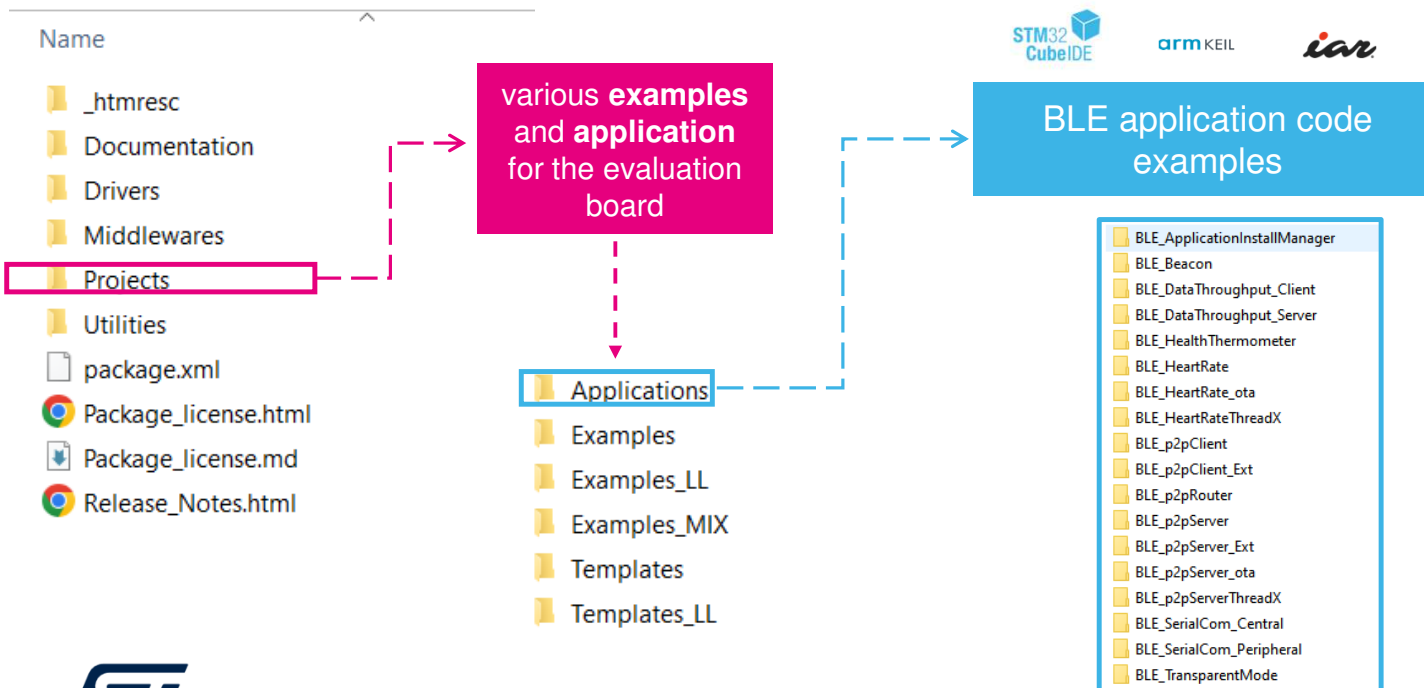
Peripheral applications
running over NUCLEO HW



STM32CubeWBA

Content 2/3

STM32CubeWBA MCU folder overview

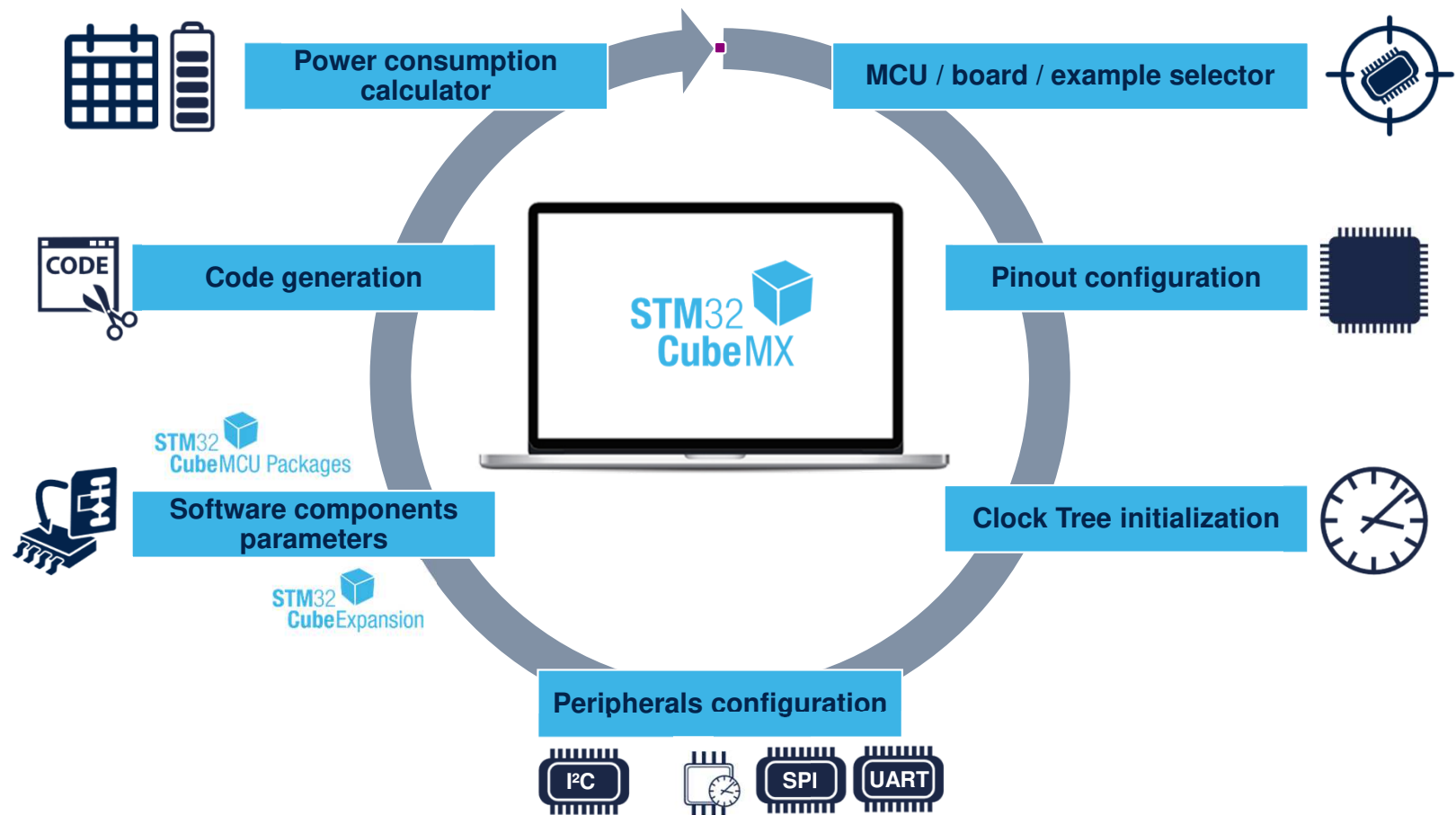


Evaluate & understand BLE APIs
Start prototyping from existing code
(proprietary BLE profile)



STM32CubeMX key steps

Start your Design Journey





Leveraging STM32Cube software suite

Software tools



Embedded software



Complemented with
Microsoft Azure RTOS

STM32
CubeMX

Configuration

STM32
CubeIDE

Development

STM32
CubeProgrammer

Programming

STM32
CubeMonitor

Monitor



STM32
CubeMCU Packages

Packages



User application

Middleware

Drivers

Expansions

STM32
CubeExpansion

Azure RTOS



Azure RTOS ThreadX
Real-time operating system



Azure RTOS FileX
FAT file system, fault tolerant



Azure RTOS NetX/NetX Duo
TCP/IP stacks



Azure RTOS USBX
USB stack, host, and device

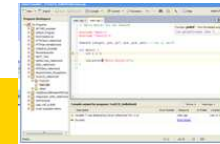
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Quick Takeaways



Complete set of documentation
#1 understand



Powerful turnkey code examples
#2 evaluate & prototype

A complete ecosystem
#3 start design



Thank You

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