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STM32Cube and Azure RTOS Overview

Mar 2021



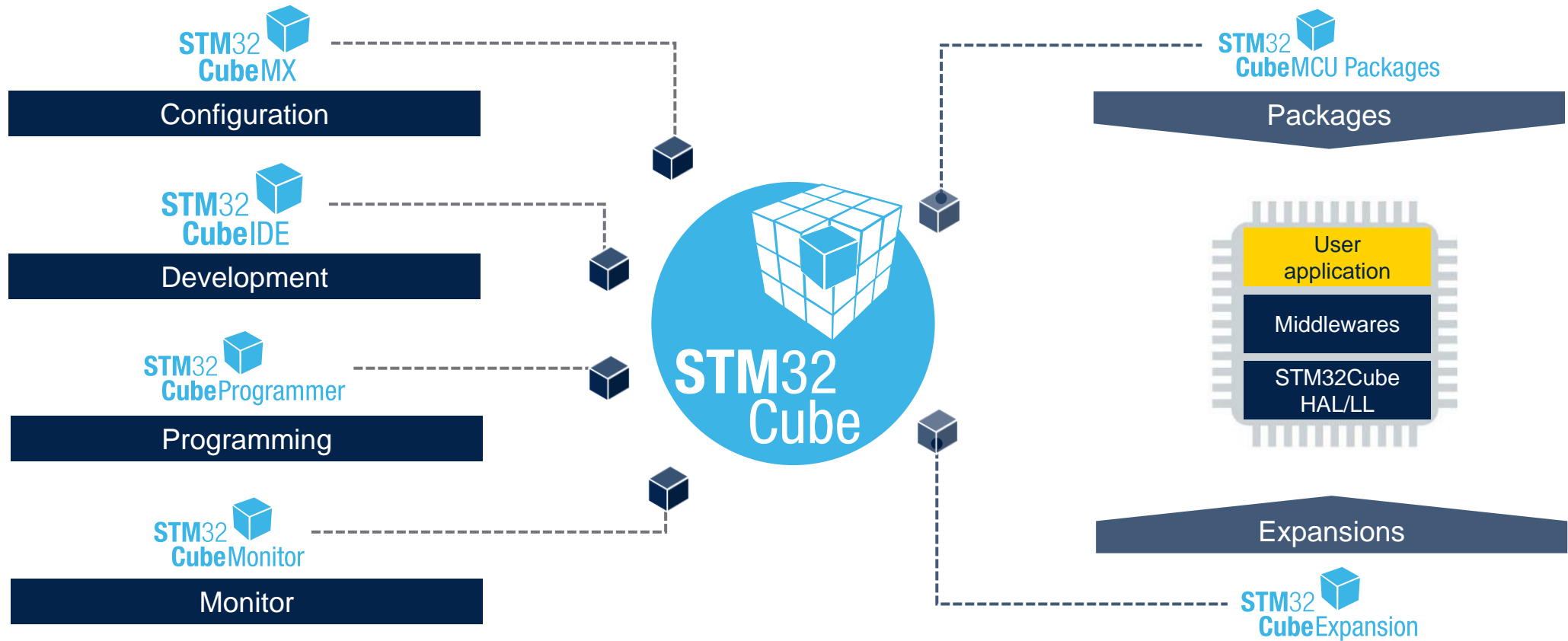


Today - STM32Cube Software Suite Offer

Software Tools



Embedded Software





Ongoing - STM32Cube Software Suite

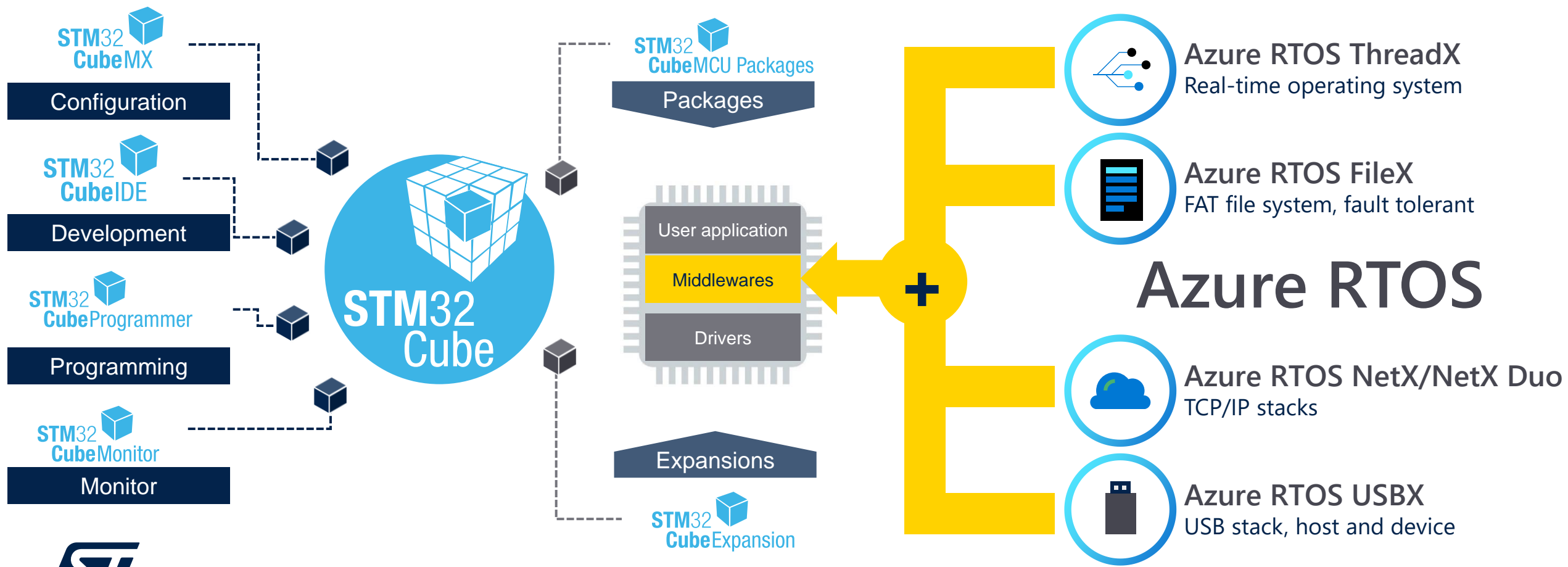
Software Tools



Embedded Software



Complemented with Microsoft Azure RTOS (2021)





Ongoing - STM32Cube Software Suite

Microsoft Azure RTOS bringing additional Key benefits to STM32Cube software Suite, from 2021

Software Tools



STM32
Cube

Embedded
Software



+ Azure RTOS

Faster & Easier Development

Business-friendly terms

Better Quality

Fast performance

+

Complete consistent solution

Industry certifications



Microsoft Azure RTOS: Key Features

Professional grade, highly reliable and market proven MW suite

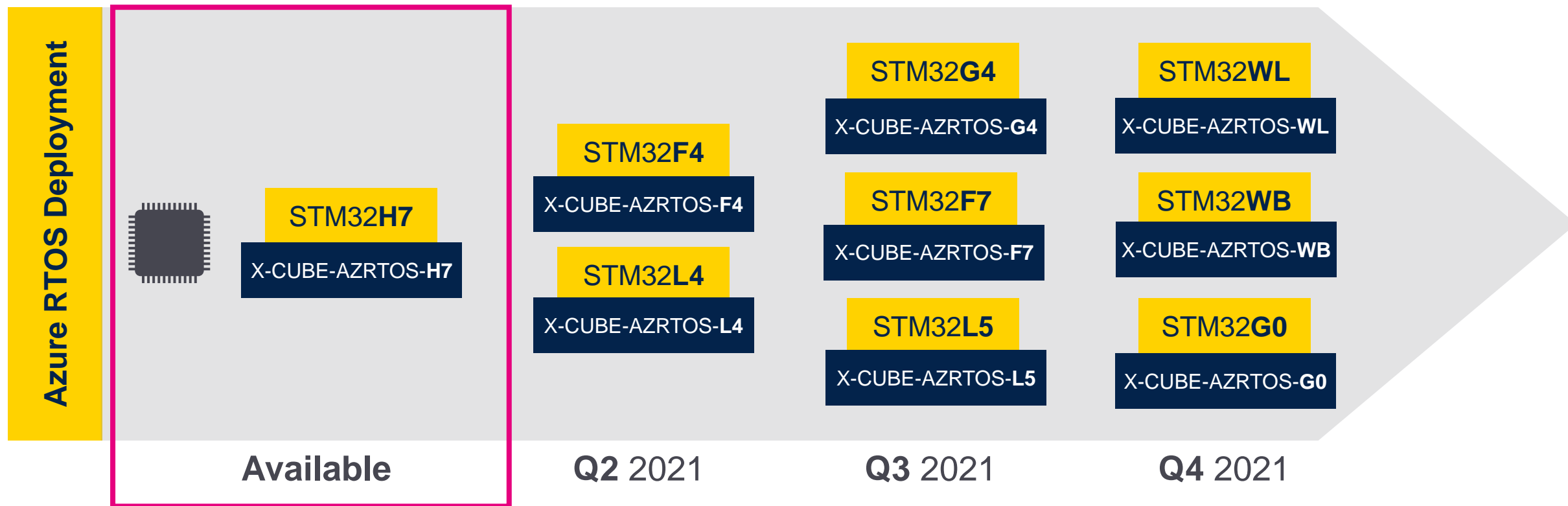
- **Industrial grade** networking stack: optimized for performance coming with **many IoT protocols**
- Advanced FS/FTL: **fully featured** to support **NAND/NOR Flash** memories
- **USB Host** and **Device** stacks coming with **many classes**
- **Safety pre-certifications (from MSFT)**: IEC 61508 SIL4, IEC 62304 Class C and ISO 26262 ASIL D
- **Security pre-certifications (from MSFT)**: EAL4+ for TLS/DTLS, FIPS 140-2 for SW crypto lib
- **STM32 granted production license:**
<https://github.com/azure-rtos/guix/blob/master/LICENSED-HARDWARE.txt>





Azure RTOS Deployment within STM32 and STM32Cube portfolio

STM32Cube Expansions for existing STM32 series, enhanced for ST Toolset

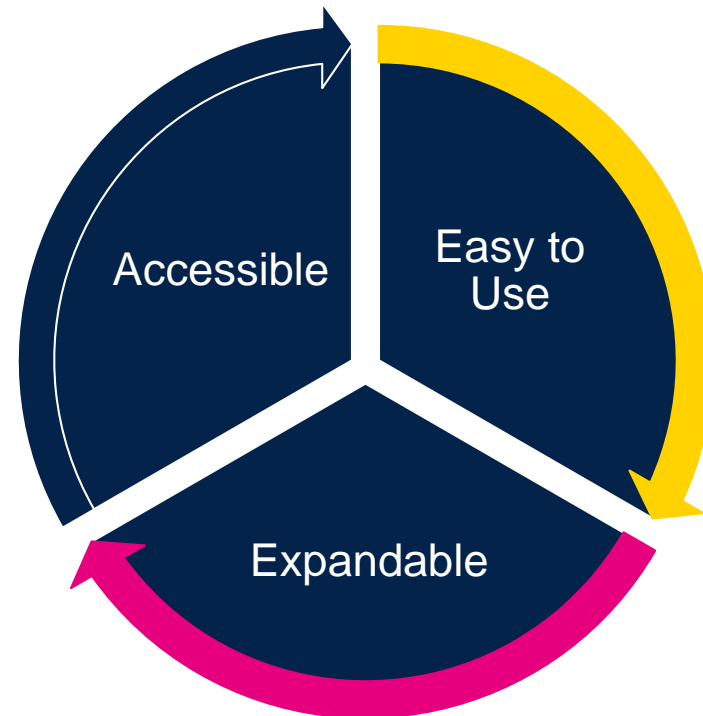




Azure RTOS and STM32Cube: User Benefits

Getting the most out of Azure RTOS and STM32 MCUs is now easier than ever with STM32Cube

Source code available
Free of charge
User-friendly license terms



Drastically reduced learning curve:

- Azure RTOS made compatible with ST Toolset
- Many applicative examples provided
Developers can focus on their application and differentiators

Expanding the ecosystem of existing and upcoming STM32 series by leveraging Azure RTOS middleware

Thank you

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