STM32Cube High Quality Process

Qualified STM32Cube Embedded Software libraries

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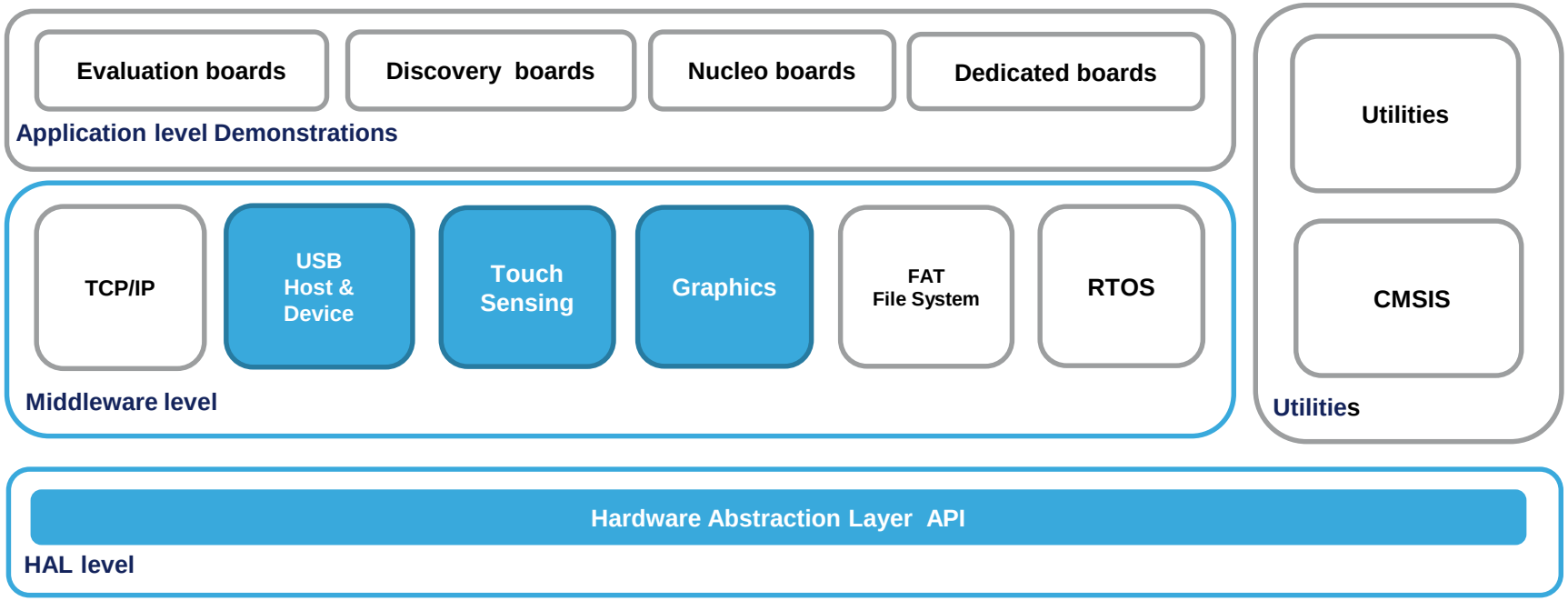
STM32Cube High Quality Process

Scope

- Qualification aspects discussed in the next slides apply to HALs and ST Middleware only, as highlighted in **blue** below



STM32Cube High Quality Process

Process

- STM32Cube embedded software developed by experienced ST engineers with a deep functional understanding of STM32 families

Pre-silicon validation

- Development and verification on FPGA platforms

Post-silicon validation

- Validation on actual silicon
- Complete functional validation at peripheral and system level

Additional validation

- Validation on three tool chains (IAR, Keil, GCC)
- Validation during integration into STM32CubeMX

Maintenance

- Annual firmware quality review
- Internal and field feedback integrated into corrective patches and releases

STM32Cube High Quality Process

Deliverables

- Validation reports available and can be shared on demand

- STM32Cube HALs and ST Middleware C code compliant with MISRA-C
  - Compliancy with a few exceptions listed and explained

- HALs and Middleware embedded software development process modeled after:
  - CMM (Capability Maturity Model)
  - ISO/TS 16949 (development teams successfully passed the external audit late 2014)

Releasing your creativity

www.st.com/stm32cube