



# HARPOON (RTOS on Cortex-A)

## HARPOON

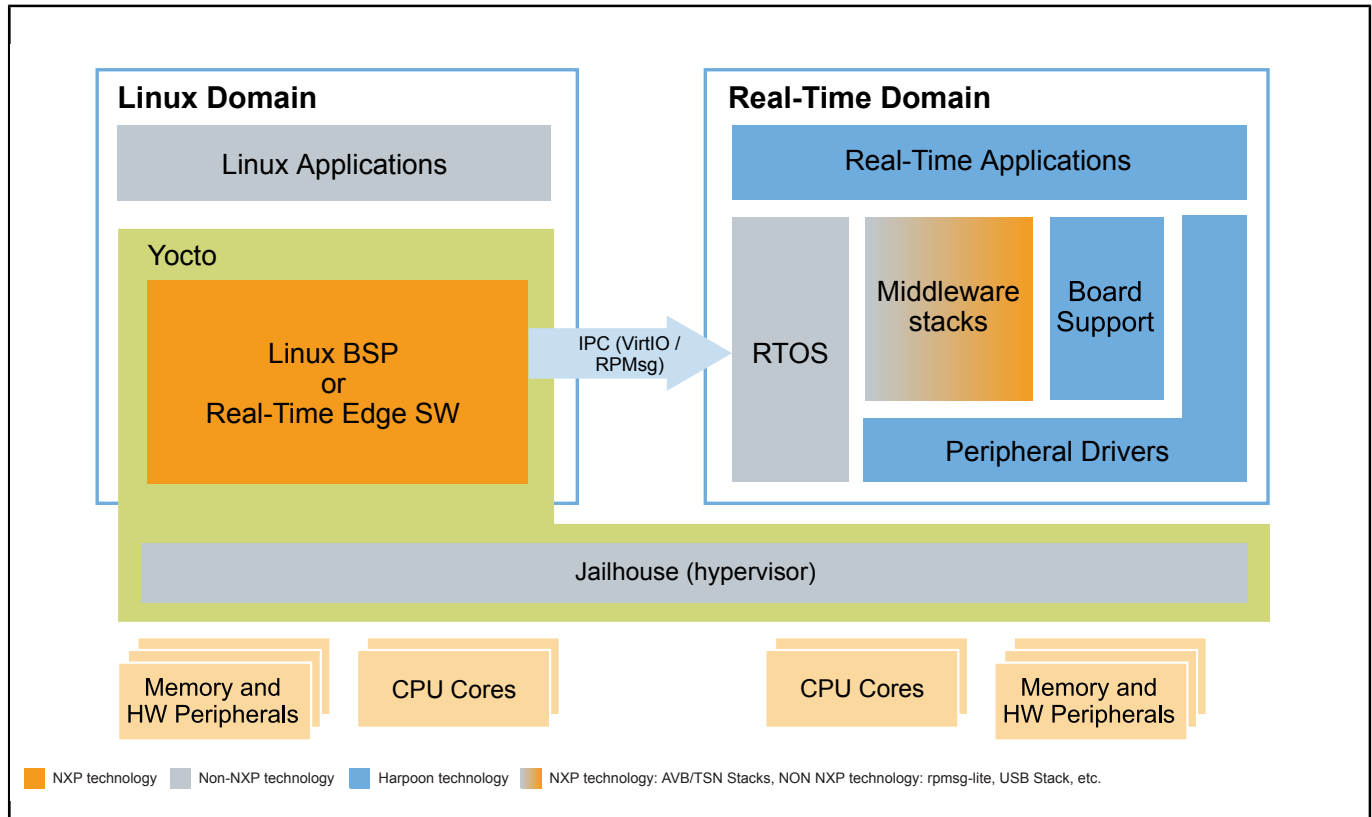
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Harpoon is a base enablement software which provides an isolated real-time domain running on high performance 64-bit Arm® Cortex®-A core(s). The Jailhouse hypervisor is used for hardware resource partitioning, allowing the real-time domain RTOS to run in parallel with a feature rich Linux distribution and with minimal impact on the RTOS real-time performance.

Harpoon supports FreeRTOS and Zephyr as the Jailhouse guest operating systems. This offers customers a choice to develop real-time applications on higher performance Cortex-A cores (Armv8-A) compared to the Cortex-M cores.

Harpoon is supported on NXP applications processors—i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus and i.MX 93. Harpoon provides reference real-time audio and industrial applications, plus a real-time latency measurement application for quick customer evaluation.

# Harpoon Software Architecture Block Diagram



View additional information for [HARPOON \(RTOS on Cortex-A\)](#).

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

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