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Defining and maintaining requirements in the Linux Kernel

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Last year in Vienna we held a session about “Improving kernel design documentation and involving experts”. Following such session the ELISA Architecture working group drafted an initial template for the SW Requirements definition, started documenting the expected behaviour for different functions in the TRACING subsystem and made upstream contribution accordingly and finally also started reviewing and adopting a framework for formally specifying kernel APIs (developed and proposed by Sasha Levin [1]).

This session aims to present the latest updates and to involve the experts to define the best next steps for having a path to introduce and maintain requirements in the Kernel (and link them to tests and other verification measures)

[1] <https://lore.kernel.org/all/20250711114248.2288591-1-sashal@kernel.org/>

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