

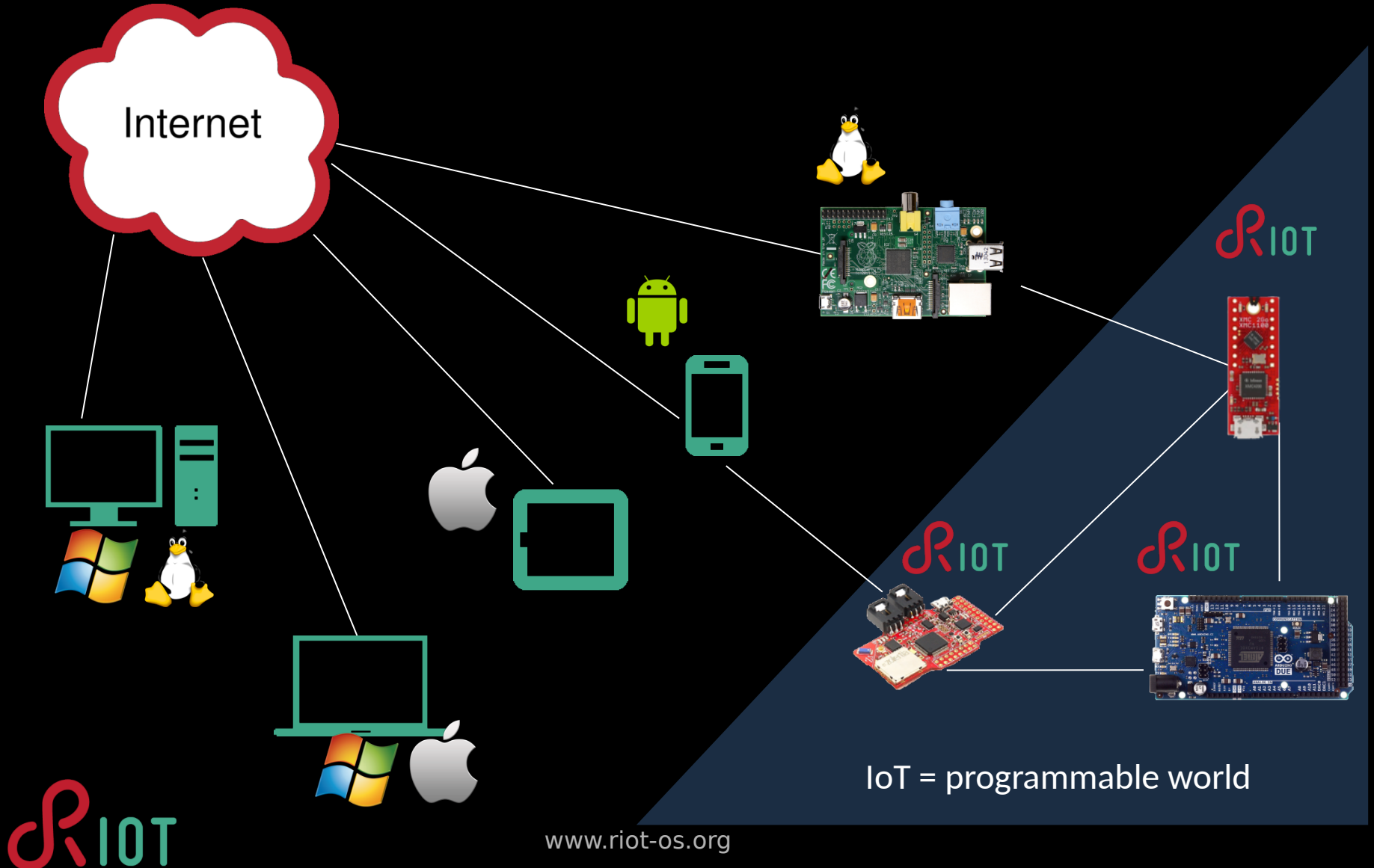
IETF 99 Hackathon - Integrate OpenWSN in RIOT



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RIOT: An Open Source IoT OS



OpenWSN

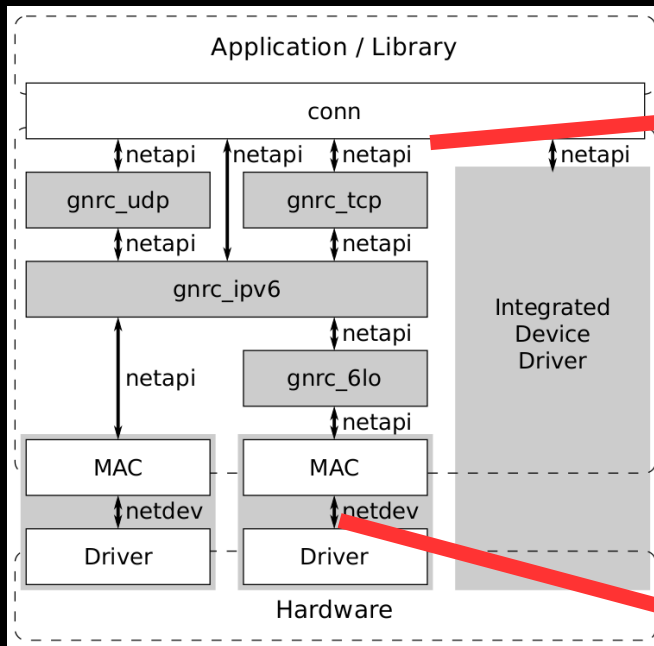
“The OpenWSN project serves as a repository for open-source implementations of protocol stacks based on Internet of Things standards, using a variety of hardware and software platforms”.



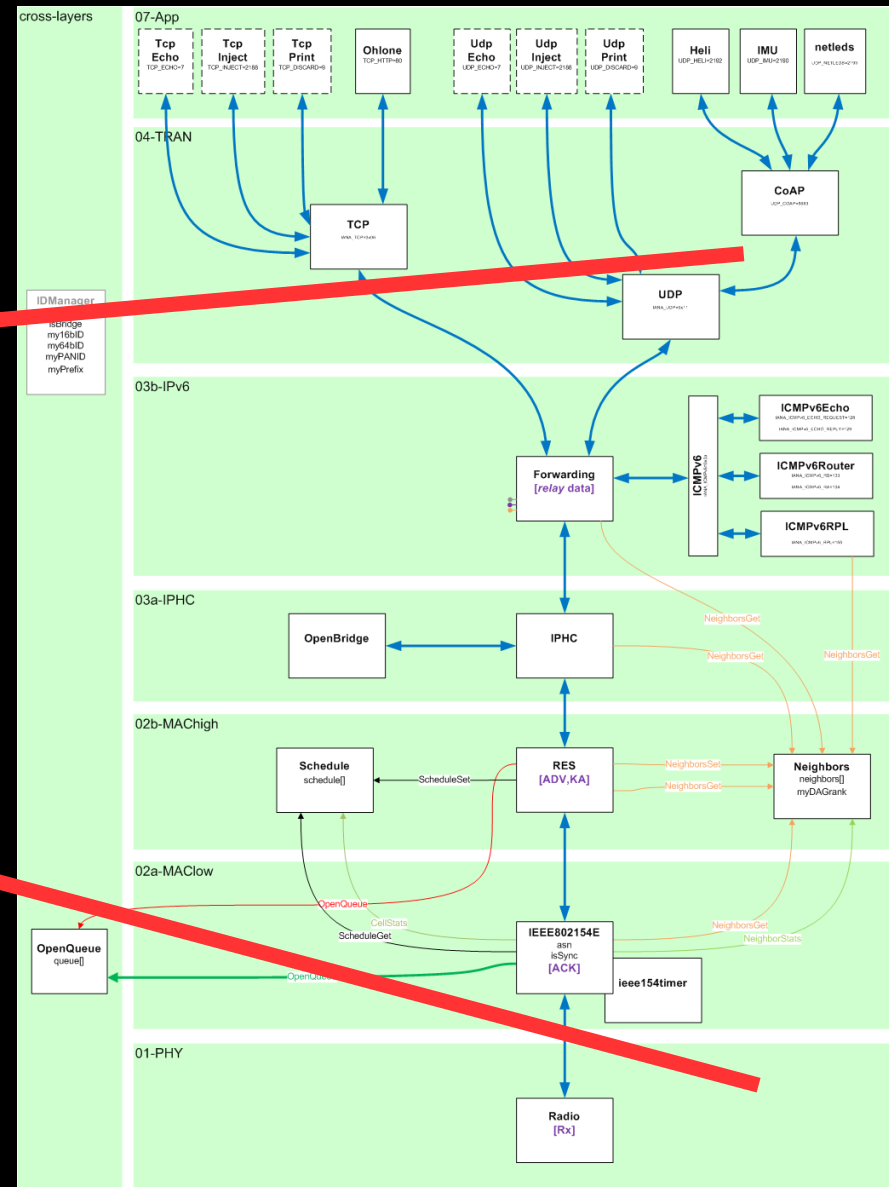
The protocol stack covers IEEE802.15.4e TSCH and 6TiSCH

Integration OpenWSN in RIOT

OpenWSN



RIOT GNRC



Porting Efforts

- Download OpenWSN as external pkg into RIOT
- Include DIRS and adapt Makefiles
- Provide southbound interface via “netdev”
 - Generic hardware abstraction
- Provide northbound interface via “sock”
 - Generic network API

Not finished yet but hopefully soon!

Outline

- Cooperation of Open Source Code/Projects
RIOT, OpenWSN
- Integration of open access protocols
(IPv6, 6LoWPAN, 6TiSCH, ...)
- Use of cooperative coding platforms
(GitHub)