

DHCPv6 for RIOT @ IETF 101 hackathon

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https://riot-os.org



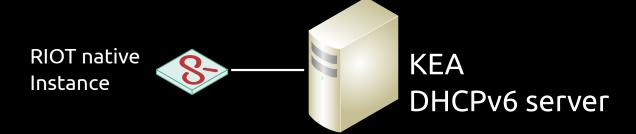
Goals

- Provide minimal implementation for prefix delegation for RIOT (IoT OS)
- Basis: <u>draft-ietf-dhc-rfc3315bis-12</u>
- Motivation:
 - prefix configuration on 6Lo border router (currently implemented as quick-fix hack "UHCP")
- Required client behavior for:
 - SOLICIT, ADVERTISE, REQUEST, REPLY, RENEW



Set-up

Very simple set-up:

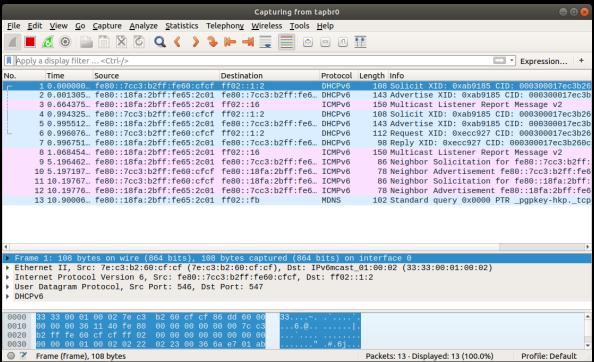


(RIOT native == Run RIOT as a Linux process)



What did we manage to do?

SOLICIT ✓, ADVERTISE ✓, REQUEST ✓





Lessons learned

- Don't get lost in details
- When in doubt: ask the draft's authors;—) (thanks Tomek for all the help)



Further steps

- Clean-up implementation
- Finish implementation of prefix delegation
- Provide support for further DHCPv6 features
- Current code already PR'd to RIOT: https://github.com/RIOT-OS/RIOT/pull/8796/