

“RIOT Starter-kit”

GOAL: Turn-key software framework/stack for constrained IoT devices

- Build on open-source and open standards
- Focus on running code: use what's there right now, fill gaps and optimize next

Link layer / MAC

Node discovery

Service discovery

Usage of services

Security:

- end-to-end encryption
- authentication
- key distribution

Network / end-to-end
connectivity

Firmware updates

Node monitoring/management

Routing

Data encoding

Data semantics

Link layer / MAC

- 802.15.4
- Ethernet
- Wifi
- BLE

Node discovery

???

Service discovery

???

Usage of services

- CoAP (REST)

Security:

- end-to-end encryption
- authentication
- key distribution

- **DTLS**
- **???**

Network / end-to-end Connectivity

- IPv6
- (6LoWPAN)
- UDP
- CoAP

Firmware updates

???

Node monitoring/management

???

Routing

- RPL

Data encoding

- **CBOR**

Data semantics

???