IETF Hackathon
TieDie

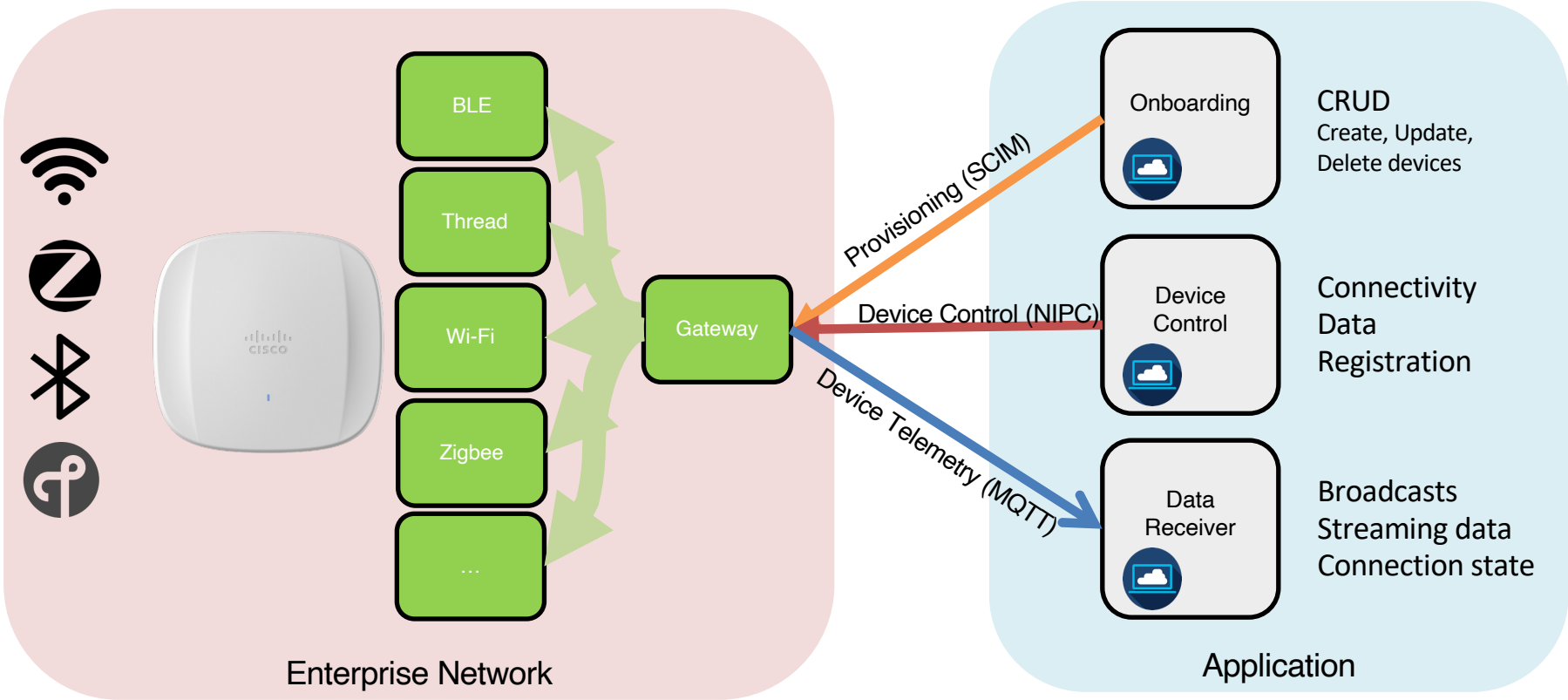
IETF 118
4–5 November 2023
Prague, Czech Republic

Hackathon Plan

- IoT onboarding and communication with Non-IP devices (BLE)
    - Drafts:
        - SCIM for devices: https://datatracker.ietf.org/doc/draft-ietf-scim-device-model/
        - Non-IP Control (NIPC): https://datatracker.ietf.org/doc/html/draft-brinckman-nipc/

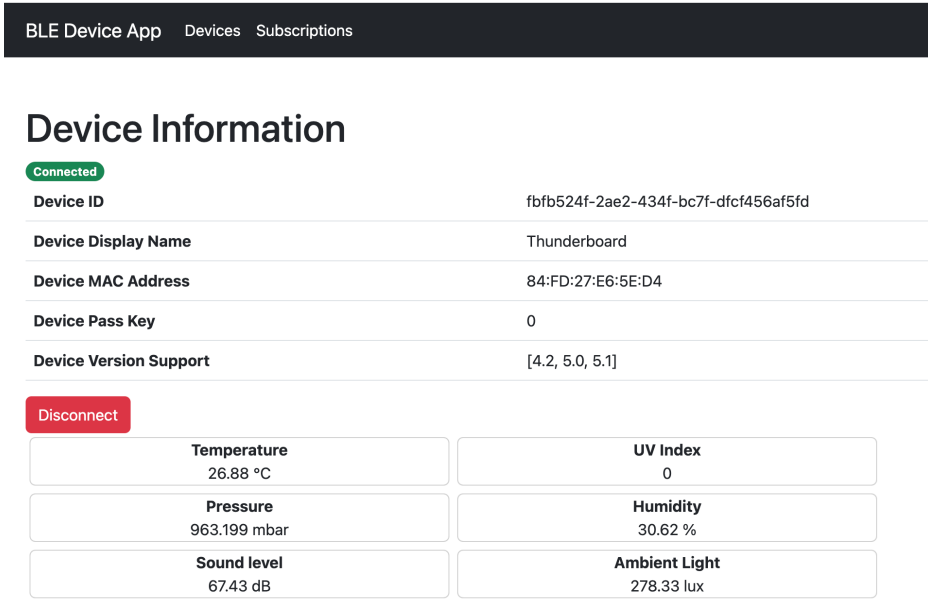
- Problem to solve:
    - Test and improve TieDie open source implementation
    - Build an application that monitors room environmentals with BLE enabled sensors.
    - Verify behavior in in a challenging RF environment!
    - Improve TieDie open-source project code + CI/CD

How did we go about it



What got done

- Got a BLE network up and running leveraging the open-source code and as well as Cisco implementation
- Figured out how to handle noisy environments more reliably
- Code improvements and CI/CD: https://github.com/iot-onboarding/tiedie
- Webapp that monitors room environmentals as a demo using NIPC APIs



What we got out of the hackathon

- A wonderful noisy environment in which to test

Wrap Up

Team members:

- Eliot Lear
- Rohit Mohan
- Bart Brinckman

First timers @ IETF/Hackathon:

- Rohit Mohan
- Bart Brinckman

https://github.com/iot-onboarding/tiedie