IETF Hackathon

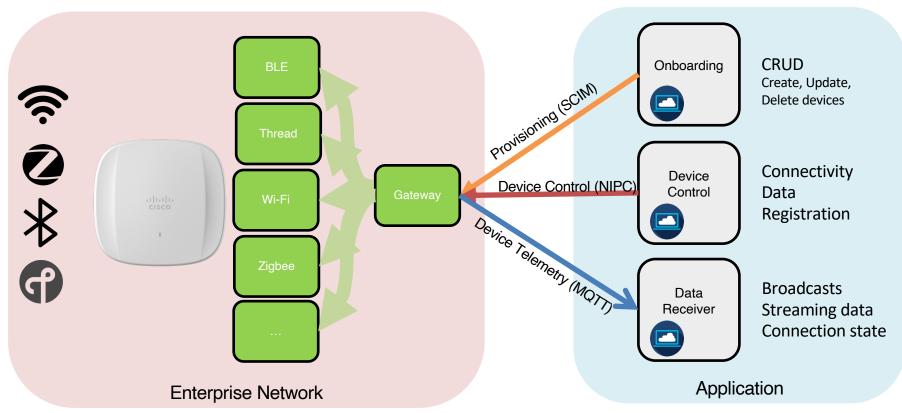
IETF 118
4-5 November 2023
Prague, Czech Republic



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:
 - 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

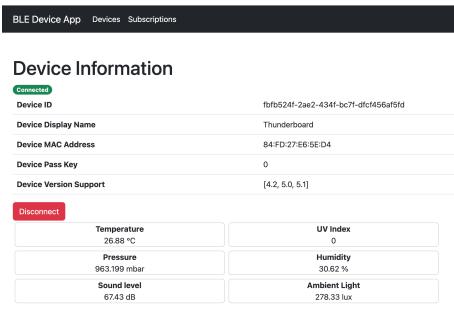
How did we go about it



IETF Hackathon - TieDie

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: <u>https://github.com/iotonboarding/tiedie</u>
- 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/iotonboarding/tiedie