# Status of eduroam2go: Expanding hotspots in Utah

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# Diagram

## Expected delivery

January 4, 20XX

## Recent progress

- All traffic from AP tunneled
- Logging for security concerns

## Biggest risk

Not having enough volunteers for a production environment

# Phase 1 - Sandboxing

## Accomplishment 1

- Successfully setup framework for OpenWISP software
  - OpenWISP
  - Wireguard
  - Freeradius
  - OpenWrt on APs

## Accomplishment 2

- Able to push template based configs to APs running OpenWrt

# Phase 2 - Pre-Production

## Accomplishment 1

- Tunnel all traffic over Wireguard
  - Fixed monitoring of NAT'd APs
  - Radius traffic protected
  - Only expose wireguard port to US networks

## Accomplishment 2

- Log all things for security
  - Radius authentications on OpenWISP interface
  - Log of SSH connections to APs

# Technical Details

## Risk 1

- How easy is it to manage and monitor the APs?
    - Template based config changes make it relatively easy
    - Monitoring is basic, but needs more info
    - OpenWrt can be a bit tricky

## Risk 2

- How secure is it?
    - Uses eduroam standards for authentication
    - Funnels all traffic through VPN
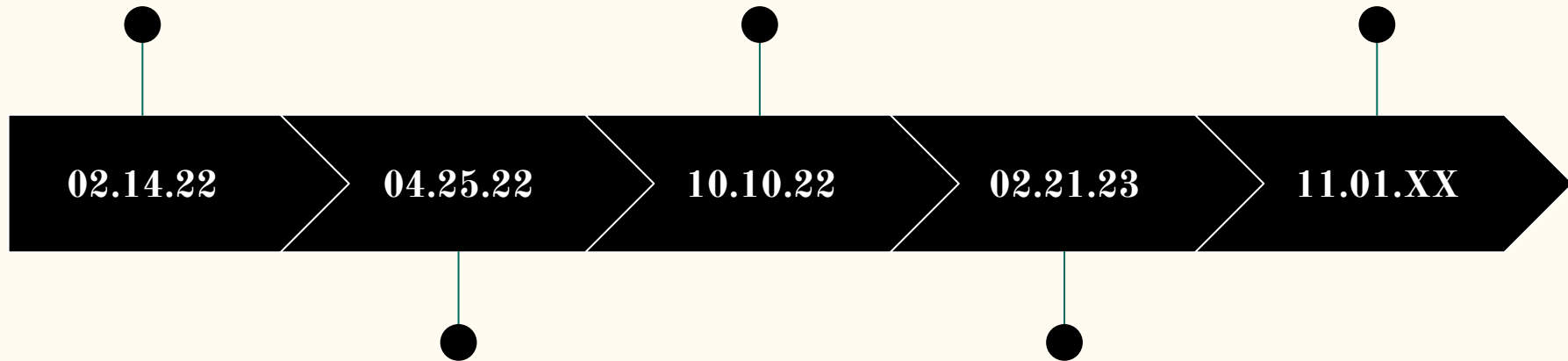    - How much logging is necessary?

# Schedule

First meeting to
discuss "plug n play"
eduroam

Freeradius server
added, puzzle is
complete

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**02.14.22**  **04.25.22**  **10.10.22**  **02.21.23**  **11.01.XX**

OpenWISP server
setup, test APs
acquired

Into Phase 2 of project

# Next steps

## Assignment 1
Testing of APs at sites. Is it stable? Does is work?

## Assignment 2
Breakout VPN traffic to separate interface on Wireguard server.

## Assignment 3
Work on support process for end users.

# Other potential Uses

1. IdP Deployments could use OpenWISP