# SCIM for devices

draft-shahzad-scim-device-model-01.txt

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Provision a new device (or many new devices) into infrastructure?

Establish bootstrapping credentials?

... for different L2 and onboarding technologies?

# How do I?

Provide ancillary information (like SBOMs, etc)?

Get application-API information for non-IP-based infrastructure?

- ... for BLE?
- ... Zigbee?
- ... other?

### Answer? Use SCIM for devices!

- A normalized set of schemas, starting with a small base schema
- No (onboarding) technology religion
- We provide initial examples
  - Device Provisioning Protocol
  - Blue Tooth Low Energy
  - Zigbee
- Looking for others
- Table Stakes:
  - Sufficient information to bootstrap trust between device and network infrastructure



# Why not Other Stuff?

### YANG/NETCONF/RESTCONF

- This work is focused on provisioning the **network** about the device, and not the device itself.
- No device config or state shared
- No re-use available for existing models

### SNMP?

• Ew. How 1980s.

Basic elements needed id – from core meta – from core adminState "schemas" – from core Connectivity displayName (optional) mudUrl (optional)

# Things to think about

All the comments that Phil and others mentioned.

Are we using the correct schema description method?

What should be normalized into / out of the Device Core?

Example WiFi schema is really DPP schema (we should correct that)

# Proposed Work Plan

Discuss now and on scim list

Github tracker: <a href="https://github.com/iot-onboarding/scim-devices">https://github.com/iot-onboarding/scim-devices</a>

Reviewers, co-authors, and implementations welcome!

Consider adoption early next year?

# Discussion