

SCIM device use cases

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How are these identities the same and how are they different?



The systems in which their credentials reside both need to be primed (provisioned)

Why SCIM?

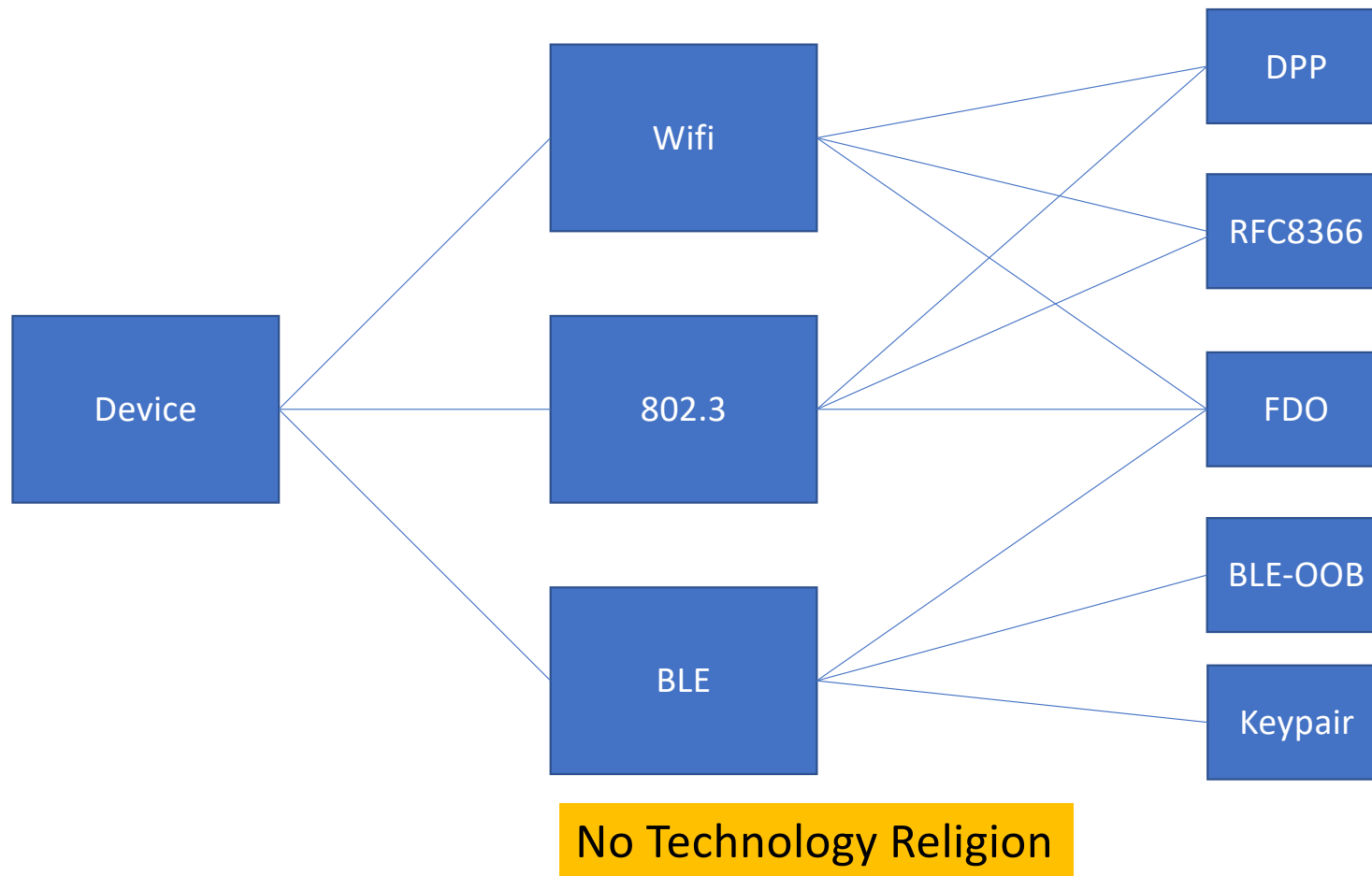
- This is a provisioning function
 - Create a new device
 - Delete an old device
 - (maybe) update an existing devices
 - Group devices
- This is a bulk device identity authentication/authorization function
- Why not SCIM? ;-)

Key Goals

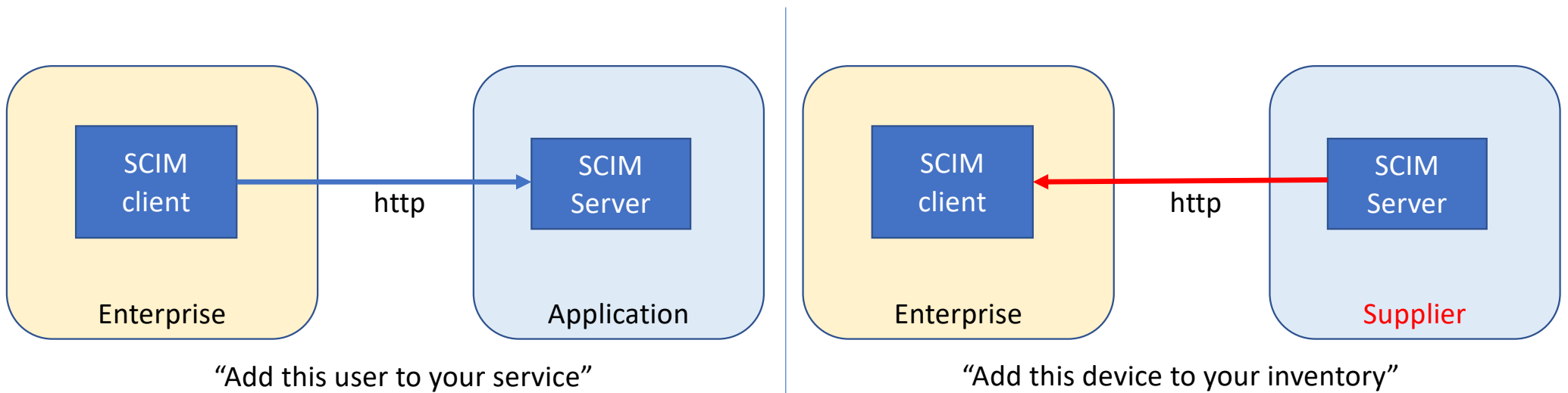
- Automate flow of onboarding of devices that an enterprise acquires
- Allow for standardized approach
- Allow for Multiple L2 Technologies
 - Wifi
 - LoRa
 - 802.3 (Wired)
 - BLE
- Allow for multiple bootstrapping / authentication technologies
 - DPP (Wifi Alliance)
 - Vouchers (RFC 8366)
 - Naked certs?
 - BLE OOB
 - Fido FDO Vouchers

Deliver via a **normalized** schema (we have been developing in JSON schema)

What's this "fully normalized" business?



Another difference - directionality



Summary of variances from normal SCIM

- Bootstrapping credential movement is **required**
- A **supplier** may be the SCIM client
 - SCIM model ponders the the enterprise being the SCIM client
 - The **supplier** is providing a device, it must provide its credentials.
- Device identities are scoped based on the supplier
- Device attributes will vary based on L2/L3 capabilities
- Desire to carry other stuff
 - SBOM information
 - Device type

Questions/ Issues

- What is the relationship between users and devices?
 - Also... RBAC... maybe a group owns a device?
 - “Facilities owns lightbulbs”
 - Given backward nature of the communication, this is a question.
 - Lifecycle questions here...what is the supplier role?
- Should that be exposed here?
- Which schema language, please?
- Need real \$refs in schema.
- Discuss here, please.

Next Steps

- A draft?