

# SUIT Architecture

# Status Tracker

## **IETF Draft**

Monitors the firmware update process.

A status tracker may, for example, want to know what state of the firmware update cycle the device is currently in.

## **ITU-T**

- Monitors device version/state, then initiates FW updates as needed.
- Receives firmware update requests, checks the need for updates, and initiates firmware updates.
- Receives and validates the trigger to initiate the FW update procedure.
- May reside inside a status tracker.

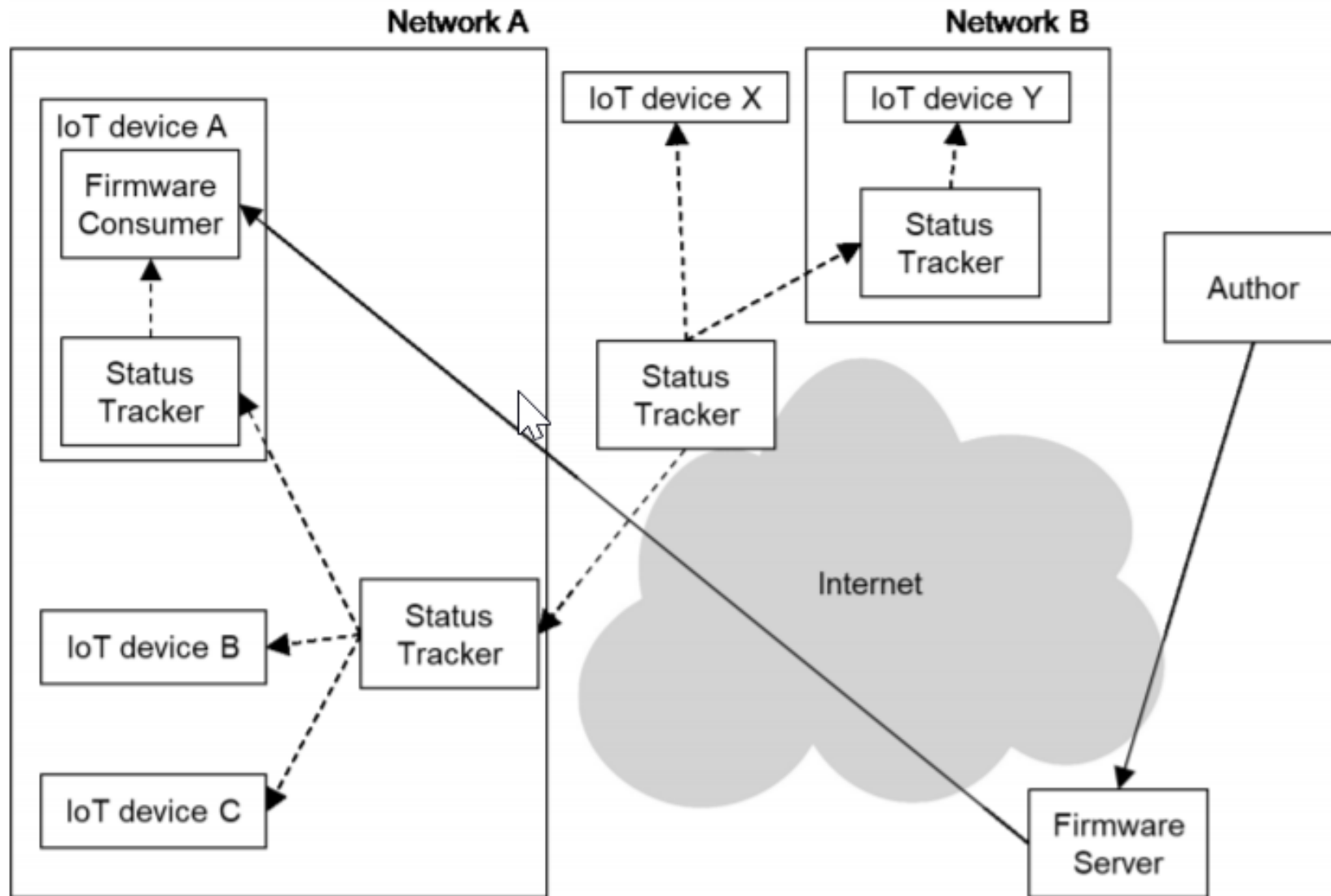
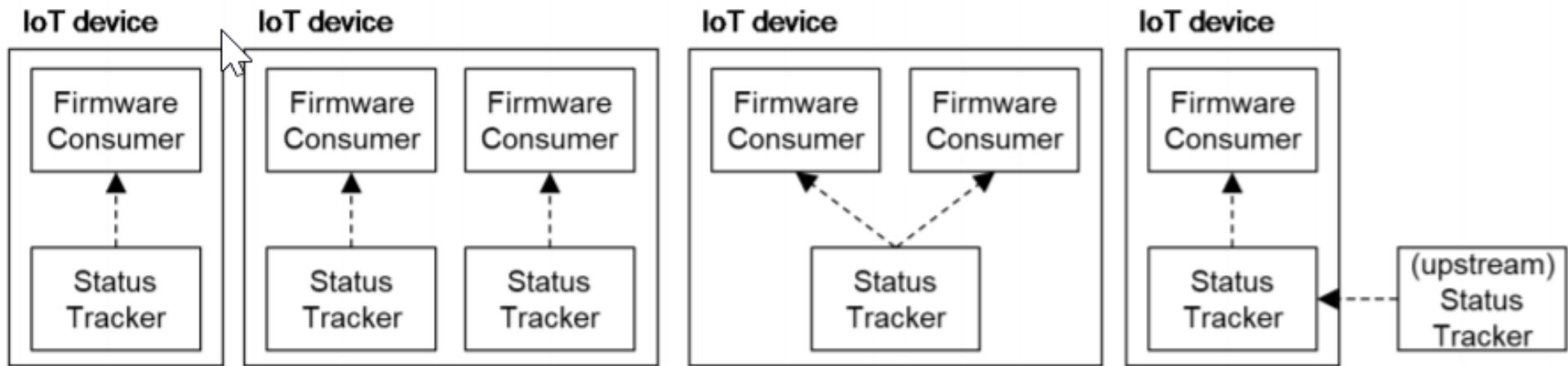


Figure 5 There is a Status Tracker taking care of multiple IoT devices inside multiple networks



*Figure 2 Different types of IoT devices*

# Status Tracker ~ IoT Device Management

- What could/should be monitored on the device (with regards to a firmware update)?
  - Installed firmware / software version(s)
  - Device related information (model, manufacturer, serial number)
  - Available memory
- This information can be useful to target devices with firmware updates more precisely and to make sure that the update will be successful.
- Following the state machine of an update is useful. For example, whether the device is still downloading the firmware or has downloaded the software already.
- Finally, there may be a trigger needed to execute the update or to have policies set to trigger the update (user/device-local trigger, cloud-based trigger, time-based trigger, etc.).