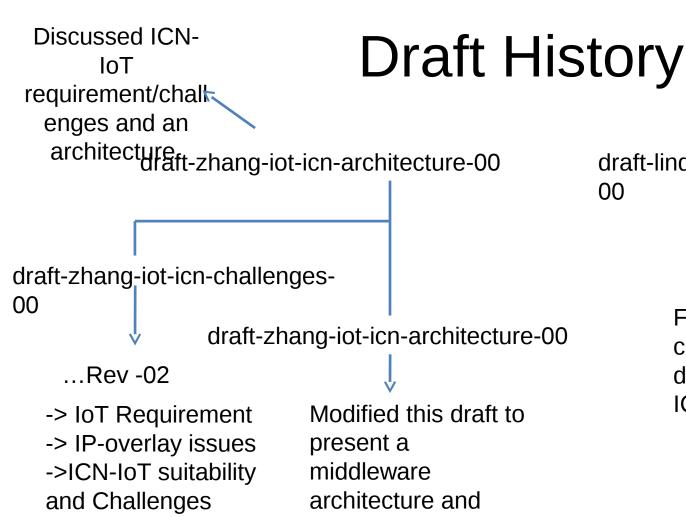# Towards a joint RG document on Requirements for IoT over ICN

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Draft History

Discussed ICN-IoT requirement/challenges and an architecture

draft-zhang-iot-icn-architecture-00

draft-lindgren-icnrg-efficientiot-00

draft-zhang-iot-icn-challenges-00

…Rev -03

…Rev -02

draft-zhang-iot-icn-architecture-00

Focuses on Design challenges and design choices for ICN-IoT

-> IoT Requirement
-> IP-overlay issues
->ICN-IoT suitability and Challenges
-> Scenarios & Requirements

Modified this draft to present a middleware architecture and functional components

- These drafts have evolved since first presented at IETF-90

Background

- Two existing drafts on IoT over ICN
  - draft-zhang-iot-icn-challenges-02
  - draft-lindgren-icnrg-efficientiot-03
- Different focus, but certain parts overlapping

→ Request from RG chairs to consider a merge to enable moving towards RG draft

Proposed WG Draft: draft-irtf-icnrg-iot-requirements-00

- **draft-irtf-icnrg-iot-requirements-00**
  - Based on draft-zhang-iot-icn-challenges-02 Sections 1-4
  - Tentative new title "**Requirements and Challenges for IoT over ICN**"
  - Content from sections 2, 3 (on requirements and challenges) of draft-lindgren-icnrg-efficientiot-03 is merged into the document at appropriate places
  - **A. Lindgren, B. Ahlgren, O. Schelén joins the draft as authors**
  - Propose to make this RG draft (draft-irtf-icnrg-iot-requirements-00) as soon as possible

Proposed Merged Draft- **draft-irtf-icnrg-iot-requirements-00**

→ Goal is for more focused scope on requirements and challenges in the other draft

Make these requirements Scenario neutral

Move this to Appendix or a new draft

Proposed Merged Draft- **draft-irtf-icnrg-iot-requirements-00**

- Dealing with Current Section 5 on scenarios
    - **Move it into Appendix section**
        - **Provides discussion on scenario specific requirements for completeness.**
        - **Also allows easy cross-referencing with scenario discussion where ever required.**
    - **Broken out into separate document on IoT scenarios**
        - Gives a separate independent evolution.
        - Easier to add new scenarios here
        - But another document overhead.

draft-lindgren-icnrg-iot-designchoices-00

- **draft-lindgren-icnrg-iot-designchoices-00**
  - Tentative title: "Proposed Design Choices for IoT over ICN"
  - New draft based on section 4 of draft-lindgren-icnrg-efficientiot-03
  - New section on how to map those design choices onto CCN, based on recent experimental work

Next steps

- Community feedback welcome
- Editorial work over the next few weeks
- All new documents ready for ICNRG meeting at IETF 94 in Yokohama.