

ICN based Architecture for IoT (*draft-zhang-iot-icn-architecture-00.txt*)

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ICN-IoT Draft Updates

- The draft has been split to encourage participation:

draft-zhang-icn-iot-architecture-00.txt



draft-zhang-icn-iot-challenges-00.txt

Main Sections:

- IoT Application **Scenarios and Challenges**.
- IoT **Requirements**
- **State of Art**
- **ICN Challenges** for IoT

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Main Sections:

- ICN-IoT as **Unified Platform**
- **ICN-IoT Architecture**
- **ICN-IoT Service Middleware**
- **ICN-IoT Deployment**

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7 (New Section)

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:ICN-IoT Draft Updates

- draft-zhang-iot-icn-challenges-00.txt
 - New Contributors active in ICN-IoT space
- Overall objective to lay out the requirements and how ICN satisfies them and new challenges it needs to address.
- One more scenario added : Smart Campus (e.g. BMS)
- More details on specific scenario challenges compared to IP-IoT overlay.
- New Section on “ICN Challenges for IoT” (in progress)
 - Identify challenges and ICN requirements considering constrained and unconstrained network segments, and data distribution models
 - Naming, Name Resolution, Caching, Context, Security etc.

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:ICN-IoT Draft Updates

- This draft proposes an architecture based on using MobilityFirst as a reference.
- The goal is to make it protocol agnostic identifying ICN level network Abstraction, functional elements and Interfaces for ICN-IoT.
- A new section on “**ICN-IoT Deployment**” has been added.
 - Overlaid deployment
 - Interfacing with IP based M2M and ICN IoT deployment.

Comments and Questions

- While we will update the new sections of the drafts..
- Comments on the draft are welcome to make it more useful to the community.
- Collaborators are welcome for both the drafts.

Thank You