ICN Management Considerations -05

IETF 90

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About the draft

- The draft addresses the prospects, contributions and impact of management aspects in ICN
- **The main objective is to simultaneously stimulate ICN research and contribute to its deployment, by subjecting its operation in management-based scenarios and environments**
- A new structure reflects ICN management under different perspectives
  - **How to use ICN mechanisms to execute management procedures (such as the ones in use today)**
  - **How to manage ICN operations**
  - **Hybrid approach**
- For each item, we also analyze new management possibilities, allowed by how ICN works
  - Example: name management, face management, etc.

Changes for -05

- Currently, for using ICN as a management mechanism, we cover:
  - Video Adaptation
  - Content Management
  - Network Policies
- For management of ICN aspects we cover:
  - Caching
  - Information Freshness (**NEW!)**
- For hybrid approaches we cover:
  - Face Management

Future Work

- Management is quite a broad aspect
  - Which we would like to see enlarged by the addition of ICN aspects
- Fundamental aspects are still missing
  - Monitoring, Discovery, Topology, …
    - Do they even make sense for managing in ICN ecosystems?
- All existing sections in the draft represent on-going research work
- But we would like to get feedback from you
  - On their scope
  - On other management aspects you would like to see in the draft
- With the objective of presenting
  - Concise overview on the role of ICN in management
  - And new Management possibilities enabled by ICN
  - Opening the way for integration of such aspects in existing (and new) management deployments

Thank you!

QUESTIONS?