ICN Management Considerations
draft-corujo-icn-mgmt-02

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-02 in a nutshell

- At IETF 87, the need for broadening the scope of the document dealing with ICN management considerations was identified
- Since then, two new topics were added
  - Video Adaptation Management (S. Lederer)
  - Content Management (S. Spirou)

Video Adaptation Management

- Importance of video for ICN discussed at the Interim
  - Video streaming split into different segments
  - Adaptive media streaming and MPEG-DASH
- Segments are sent in an "optimized way" (best-connected, anycast-like, etc.)
- ICN video delivery could be assisted via management procedures, for example:
  - In case of changes in current link/traffic conditions (i.e., event service?)
  - Identifying new/better connectivity opportunities (i.e., multihoming)
  - Triggering video content request/response procedure and adapting it to the new conditions and/or available links

Content Management

- Using Network triggers, information and primitives to
  - Update/relocate in-network storage
  - Add/remove/delete content
- Integrate with accounting services
  - Manage how users get content with respect to their service agreement
- ICN management could integrate different ecosystems in order to optimize the operation of content dissemination

Towards -03

- Further editing to be done, to accommodate the new content
  - Re-writing of previous sections (NDN Management, NetInf Management)
  - Extend new sections
- We are also open to contributions in other areas impacted/impacting Management

Contributions Welcome

- Management can interface with secondary and tertiary systems (network, content and/or users)
- Evaluate different inputs and act for optimization
- How does **<u>security</u>** impact this design?
  - Which enhancements would be necessary for both sides of this coin?
  - We welcome contributions on this to the draft!

THANK YOU!