Requirements for NRS in ICN

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ICNRG Interim meeting in London

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Draft overview

• Draft purpose
  • This document discusses the motivation and requirements for Name Resolution Service (NRS) in ICN

• NRS motivation
  • Discussed ICN challenges and their solutions based on NRS

• NRS requirements
  • As a service ad a system
  • On security
Updates

• NRS use cases
  • Flat name routing support
  • Publisher mobility support
  • Scalable routing support
  • Off-path cache support \(\rightarrow\) added
  • Nameless object support
Off-path cache support

• Off-path caching aims to replicate content within a network in order to increase availability, regardless of the relationship of the location to the forwarding path

• However, finding off-path cached objects is not trivial in name based routing

• In order to support off-path caches, replicas are usually advertised into a name-based routing system or into NRS
Missing part & Next plan

• Security consideration section is still missing
• But, in 5.3 “Requirements on Security aspect” may cover it
• So, will move 5.3 to 7. Security consideration
Questions and comments?