

Requirements for NRS in ICN

draft-jhong-icnrg-nrs-requirements-03

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 and a system
 - On security

Updates

- NRS use cases
 - Flat name routing support
 - Publisher mobility support
 - Scalable routing support
 - Off-path cache support → 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?