NRS discussion

ICNRG Interim meeting in Singapore

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Design consideration 1 as a Service

- Who does the resolution?
- Do we always have to resolve names to identifiers in a different name space?

- Resolution entity
  - Host based resolution : DNS-like, always lookup
  - Network based resolution : network node such as content router
    - When does the resolution take place?

Design consideration 2 as a Service

- Do we need new protocols and/or semantics in current ICN systems?

- Protocol and semantics for NRS
  - Design new protocol and semantics
  - Utilize the current protocol and semantics
    - Communication channel (link) : legacy data plane vs. new control channel

Design consideration 3 as a Service

- Does NRS imply some mutability of Interest messages (name rewriting?) and what would be the implications?

- After name is resolved, Interest is forwarded based on the resolved name/information keeping the original name as well

Motivation of NRS in ICN

- Routing Scalability
- Producer Mobility
- Replica Service

- Name resolution function is very useful when architecture provides it
- It can be used whenever it is required

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Thanks!

Questions and comments?