



Report from ICNRG Interim meeting

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ICNRG Interim meeting
Stockholm February 14-15, 2013



Some meeting facts

- Two day meeting in Kista, Stockholm, Sweden hosted by Ericsson
- About 30 participants
- Meeting minutes and presentations available at our Wiki:
 - <http://trac.tools.ietf.org/group/irtf/trac/wiki/StockholmInterimMeetingminutes>

SAIL WS on Future Media Distribution using ICN

Some reflections

- Publishing interface
 - An alternative to waiting for Google
- Stop thinking about flows
 - ICN objects do not generally come in flows, they come from all over the place
- ICN should not only make information objects first class citizens of the network – also storage should be one

Project reports

- NDN implementing trace route that can bypass caches in testbed
- PURSUIT is looking at combining ICN and SDN
 - Dave:” I get this question a lot back at the office. Is this something we want this research group to address?”
- NetInf open source code is now available

Research challenges document_

- Can we have a common ICN model?
- Separation of Naming and Security?
- Privacy issues
- Access control and DRM
- ICN API
- Does the the extensive use of caching in ICN require adoption of legal and regulatory frameworks
- Interdomain operation

ICN Survey document

- Questionable if we need another survey. Numerous already published.
- Alternatives for this document:
 - A survey of surveys?
 - A document defining what ICN is really about
 - Is ICN is an information system or an architecture?
- What do we do about inter-networking?

ICN Baseline Scenarios document

- Should the draft cover topologies or not?
 - After a long discussion, the answer was “yes, this would be beneficial”
 - Find topologies that are difficult with IP but simple with ICN
- Section 2 has received significant input from the community
 - So far most (all?) pertinent ICN evaluations are covered
 - More updates in -02, looking for RG feedback and reviews
- Section 3 on evaluation methodology getting started
 - Working group session drafted an outline already, see -02
 - Further community input in this section solicited
- See report on ICN Baseline Scenarios for more

ICN live streaming and interactive services

- Do we need non-cachable objects?
 - To get updates on latest recorded chunk in a live stream?
 - To count hits on a web page?
- The need for request aggregation becomes obvious when doing live streaming
- Cut-through forwarding needed to reduce delays

ICN routing and congestion control

- Does scalable global routing require that some degree of host centric networking is re-introduced into ICN?
 - If so, how do we deal with source mobility?
- Does one interest packet generates one (and only one) data packet in all cases?
 - Does this change if you have broadcast wireless?

Summary of meeting

- Well attended, productive meeting
- A lot of interesting issues raised during discussions
- We are making good progress on the documents
- ICN is still in a very early phase
 - We are still basically defining the research area
 - Lots of interesting research remains to be done!