Some meeting facts

- Two day meeting in Kista, Stockholm, Sweden hosted by Ericsson
- About 30 participants
- Meeting minutes and presentations available at our Wiki:
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 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!