NWCRG IETF97 meeting

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Agenda

1. welcome, administrative and general matters (5')

2. taxonomy I-D update

    - Vincent Roca (10')

3. FECFRAME v2: adding convolutional FEC codes support to the FEC Framework

    - draft-roca-tsvwg-fecframev2-02
    - Vincent Roca (10')

4. network coding for NFV (network functions virtualization)

    - draft-vazquez-nfvrg-network-coding-function-virtualization
    - Angeles Vazquez-Castro (15')

5. proposals and open discussion

    - Vincent Roca, all (20')

2- Taxonomy I-D

https://datatracker.ietf.org/doc/draft-irtf-nwcrg-network-coding-taxonomy/

draft-irtf-nwcrg-network-coding-taxonomy | 00 | | 01 |

Nov 2014 — Oct 2016

- **goals**
  - bridge the gap between IETF / academic work terminologies
  - start to structure the domain
    - it's a taxonomy

- **proposal**
  - simplify the structure (fewer top level sections)
  - change text so that explanations use the IETF terminology
    - certain definitions are too RLNC/information theory oriented
  - make sure we didn't miss any item
    - in particular go through RMT/FECFRAME documents

5- Proposals and open discussion

- **clarification**: "coding for efficient network communications"
  - ○ do not restrict ourselves to hop-by-hop coding only
  - ○ many contributions involve a single encoding point

- **a key expertise:** the only place within IETF/IRTF that gathers coding experts
  - ○ mostly trivial FEC schemes are considered elsewhere
  - ○ find a consolidated answer to any FEC question (hopefully somebody willing to review a FEC-related I-D during a WGLC?)

Proposals and open discussion (2)

- proposal
  - structure work into topics in order to stimulate participation
  - provide objectives and milestones to measure progress
  - is there an emerging topic that could justify the creation of an IETF WG?

- example of topic:
  - **"NC, from theory to practice" (already in charter)**
    - **list known NC deployments for which we have technical info**
    - **what did we learn**
      - in terms of architecture?
      - in terms of performance/benefits?
      - in terms of signaling?

Proposals and open discussion (3)

- example of topic…
  - **"NC architecture"**
    - **we already discussed a lot…**
    - **topic 1 on NC deployment could provide interesting input…**

  - **"convolutional coding with and without recoding"**
    - **could help IETF groups looking for something more powerful than trivial XOR codes**
    - **distinguish the two situations since recoding complicates a lot**

  - <list other proposals here if any>

Proposals and open discussion (4)

- how to proceed?
  - gather ideas
  - select a subset of topics of interest
  - formalize the organization
    - **define "teams"**
    - **within each team, clarify the goals, define a schedule and milestones**
    - **if meaningful summarize outputs of a team in an informational I-D and present it during meetings**