



NWCRG meeting

Vincent Roca, Victor Firoiu (remotely)
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Administrativa

● Charter

- <https://datatracker.ietf.org/group/nwcrq/charter/>
- IRTF web site: <https://irtf.org/nwcrq>

● Mailing list

- nwcrq@irtf.org
- subscription: <https://www.irtf.org/mailman/listinfo/nwcrq>

● Today's slides

- <https://datatracker.ietf.org/meeting/99/session/nwcrq/>

● Remote participation

- Meetecho: <http://www.meetecho.com/ietf99/nwcrq>
- other means: <http://ietf.org/meeting/99/remote-participation.html>

Quick status about active Internet-Drafts

● **WG-item I-D**

○ **draft-irtf-nwcrp-network-coding-taxonomy-05**

- passed RG last call
- submitted for IRSG last call (2017/07/18)

● **Individual I-D**

○ **draft-kuhn-nwcrp-network-coding-satellites-00**

Agenda

- **00- Welcome, general matters, goals (chairs) (10')**

PART I: Use-cases where end-to-end coding or network coding can be beneficial

- **NC for satellite communications**

- **01- "Network coding and satellites" (Nicolas Kuhn, remote) (10')**
 - Discussions: what's next and where do we want to go? (5')

- **NC for ICN/CCN**

- **02- "Network Coding Meets Information-Centric Networking: An Architectural Case for Information Dispersion Through Native Network Coding " (Cedric Westphal) (10')**
 - Also covers NetCodCCN (Infocom'16)
- **03- "Low latency low loss streaming using in-network coding and caching" (Hitoshi Asaeda) (10')**
 - (Infocom'17)
 - Discussions: what's next and where do we want to go? (5')

- **Other NC potential use-cases**

- **04- "Some Network Coding Use Cases" (Vincent Roca, on behalf of Rolf Sperber (remote)) (10')**
- **05- "Internet overlay networks: the need for a Generic Robust Low Latency Tunelling with common APIs (Marie-José Montpetit, remote) (10')**
 - Discussions: what's next and where do we want to go? Are these use-cases sufficient to extract a generic architecture and/or a generic protocol? (5')

Agenda (2)

PART II: On the coding side

- Low complexity coding
 - **06- "Pyrit: Polynomial Ring Transforms for Fast Erasure Coding" (Jonathan Detchart) (10')**

- On the benefit of sliding window codes (network coding?) to IETF protocols
 - **07- "Less Latency and Better Protection with AL-FEC Sliding Window Codes: a Robust Multimedia CBR Broadcast Case Study" (Vincent Roca, Inria) (10')**
 - **08- FEC codes and QUIC (Ian Swett) (10')**
 - Discussions: what's next and where do we want to go? What about the WebRTC and PAYLOAD WGs? (5')

PART III: Other topics (if time left)

- **09- "About a simple protocol to negotiate network coded communication" (Frank Fitzek, TBC) (5')**
 - Discussions: what's next and where do we want to go? (5')