



# SCHC over networks susceptible to disruptions

Authors:

Edgar Ramos [edgar.ramos@ericsson.com](mailto:edgar.ramos@ericsson.com)

Lorenzo Corneo [Lorenzo.corneo@ericsson.com](mailto:Lorenzo.corneo@ericsson.com)

Ana Minaburo [anaminaburo@gmail.com](mailto:anaminaburo@gmail.com)

# Open the Scope



- Old Scope
  - Energy Harvesting (zero energy devices)
- New Scope
  - Disruptions due to:
    - Energy
    - Connection
    - Latency

# Context



- Different Topologies
  - Star, Mesh, Point to Point, using a proxy.
- Different Devices
  - Capabilities
  - Configurations
- Disruptions causes by
  - Energy
    - Preserve Battery
    - Energy Harvesting (zero energy)
  - Connection
    - Infrequently
    - Unpredictable

# SCHC enables



- Simplified operation to save energy
  - Longer delays for transmissions/receptions
  - Lower reliability
- Overhead reduction
  - Headers and potentially payload Compression
  - Fragmentation
  - Reliability support
  - Padding reduction/elimination
- Enable Delay Tolerance
- Support long Latency

# Adoption



- Informational draft
- Change
  - Title from: schc-zero-energy-devices  
to:  
SCHC for networks susceptible to disruptions
  - Objective:
    - Zero Energy (as for example: Ambient IoT, Zero Energy or Energy Harvesting)
    - Disrupted Connections (as for example: LEO Satellites)
    - Low power/Long delays (as for example: LPWA)

# Adoption



- Are you agree to adopt this work with the new scope?
  - Deadline: Today July 22<sup>nd</sup>.

# Adoption



- Thanks