Fraunhofer-Institut für Kommunikation, Informationsverarbeitung und Ergonomie FKIE

More Metrics for RFC 8175 (DLEP)

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What has been published?

- Physical Layer based metric drafts

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- Physical Layer based metric drafts
  - Draft-rogge-manet-dlep-radio-band-04
  - Draft-rogge-manet-dlep-channel-utilization-03
  - Draft-rogge-manet-dlep-radio-quality-03

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Radio band

- Reports the used frequency resources

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- **Reports the used frequency resources**
  - Spectral efficiency
  - Check against known troubles
  - Potential on-the-fly reconfiguration (Cognitive Radio)

Channel utilization

- Reports detected channel usage over time

Channel utilization

- Reports detected channel usage over time
  - Estimates about existing capacity
  - Very useful for statically allocated TDMA

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Radio quality

- Reports the quality of the communication
  - Error estimation without probes
  - Detection of disruption by other devices

What's next?

- Improve radio-quality draft
  - Make sure TLV values change between Modulation-Coding-Scheme (bitrate!) changes
  - Make Biterror-Rate mandatory (much less device dependent)

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More work?

- MAC layer based metric drafts
  - Mostly statistics, maybe not necessary
- Radio capabilities
  - E.g. multicast capability
  - IP support?
  - Service discovery

Questions?