IETF 122 DTN Working Group

RFC4838bis Discussion

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(chair hat off)

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RFC4838 History

This RFC was published on the Internet Research Task Force (IRTF) stream. This RFC is **not endorsed by the IETF** and has **no formal standing** in the IETF standards process.

This document describes an architecture that addresses a variety of problems with internetworks having operational and performance characteristics that make conventional (Internet-like) networking approaches either unworkable or impractical. We define a message- oriented overlay that exists above the transport (or other) layers of the networks it interconnects

Considerations around RFC4838

An updated DTN architecture would have some benefits

- A 4838bis is being developed by original 4838 editors
- Some key questions coming from the effort
- Some time here to present 3 of those questions

Topic 1: DTN and IP

https://datatracker.ietf.org/doc/html/draft-burleigh-deepspace-ip-assessment-00

- Q: Do we feel this reasoning is applicable in a 4838bis?

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Topic 2: Quality of Service

- Bundle QoS parameters may change over time
  - Determining QoS parameters more a function of the BPA
  - Less a function of a bundle asserting its own parameters

- Custody Transfer is an architectural concept
  - Not a protocol
  - Function of reliability in CLAs
  - May include higher-level signaling

- Q: Is there disagreement on QoS parameters resolved external to bundle?
- Q: Is there disagreement that Custody Transfer is a concept not a protocol?

Topic 3: Fragmentation

- During reassembly:
  - Is the original bundle reassembled
  - Is only the original ADU reassembled?