Enhanced DetNet Data Plane: Initial Plans

Report on DetNet Interim Meeting
IETF 116 (Yokohama): March 30, 2023

David Black
Tech Advisor (Transport)
DetNet: March 7 Interim Meeting

• Update on scaling requirements draft
• Discussion of plans for data plane enhancement (original slides follow)
  − Intend to proceed with plan proposed in slides
  − Actual meeting times/dates subject to change (e.g., to meet advance notice requirements)
Enhanced DetNet Data Plane: Proposed Plans

DetNet Interim Meeting
March 7, 2023

David Black
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Proposed Initial Focus: Queuing

• “Plans for informal open working meetings on progressing the topic of an Enhanced DetNet Data Plane”

• Focus of Working meetings: Queuing
  − Same scope as recently-disbanded design team

• Open Working Meeting Goals:
  − “information and definitions that will be common among different candidate queuing solutions”
  − “one or more specific queuing mechanisms as candidates for WG adoption”

• Other topics: Outside scope of open working meetings
  − May still be within scope of WG as a whole
Tentative Approach

A. Refine scaling requirements draft
   - Technical updates to scaling requirements
     • Separate draft section for each requirement
   - Remove requirements that aren't for scaling

B. Determine which proposed solutions satisfy which reqts.
   - Matrix of solutions X requirements (draft section #s)
   - Each cell: Satisfies, Partially Satisfies, Does Not Satisfy

C. Priority triage of requirements:
   - That set of queuing solutions to be progressed
     MUST / SHOULD / MAY satisfy (more on next slide)
   • Pursue A, B, and C concurrently (feedback among them)
   - Use results to select queuing solutions to progress
   • And … Obtain WG rough consensus for all of this (!)
Priority Triage Explanation

C. Priority triage of requirements:

– That set of queuing solutions to be progressed MUST / SHOULD / MAY satisfy
  * MUST: If not satisfied, wasted everyone's time
  * SHOULD: Significant drawbacks if not satisfied
  * MAY: “Nice to Have” (some benefits)
    – No significant drawback(s) if reqt. removed
  * If not even “Nice to Have”, remove requirement

* Apply to set of queuing solutions to be progressed
  – If more than one solution, different requirements could be satisfied by different solutions
Open Working Meeting: Timing

• Important Time Zones for participants:
  − Asia: Korea (GMT+9), China (GMT+8)
  − Europe (GMT+1)
  − US Eastern (GMT-5), US Pacific (GMT-8)
• No good meeting time across all five of these time zones
• Proposal – Alternate meetings between:
  − 8p-10p ET (Asia: AM, Europe: bad [2a-4a], US: evening)
  − 8a-10a ET (Asia: evening, Europe: PM, US Eastern: AM, US Pacific: bad [5a-7a])
  − Record all WG open working meetings
• Proposed frequency: every 2 weeks, starting after Yokohama
  − Proposed first 2 meetings: April 11 (8p-10p ET) & April 26 (8a-10a ET)
Last Slide

• We have an adventure ahead of us

• Questions?
• Comments?

• Dead Cats and Rotten Tomatoes?
  – (reference to “Adventures of Huckleberry Finn” book)