Latency Guarantee with Stateless Fair Queuing (C-SCORE)

draft-joung-detnet-stateless-fair-queuing-04

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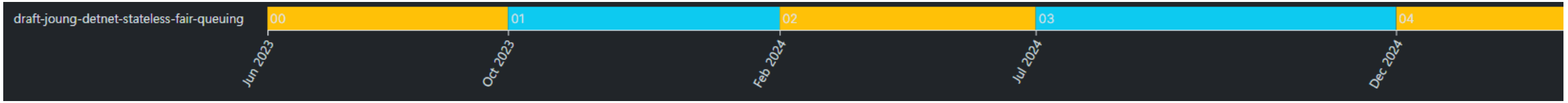
History of C-SCORE

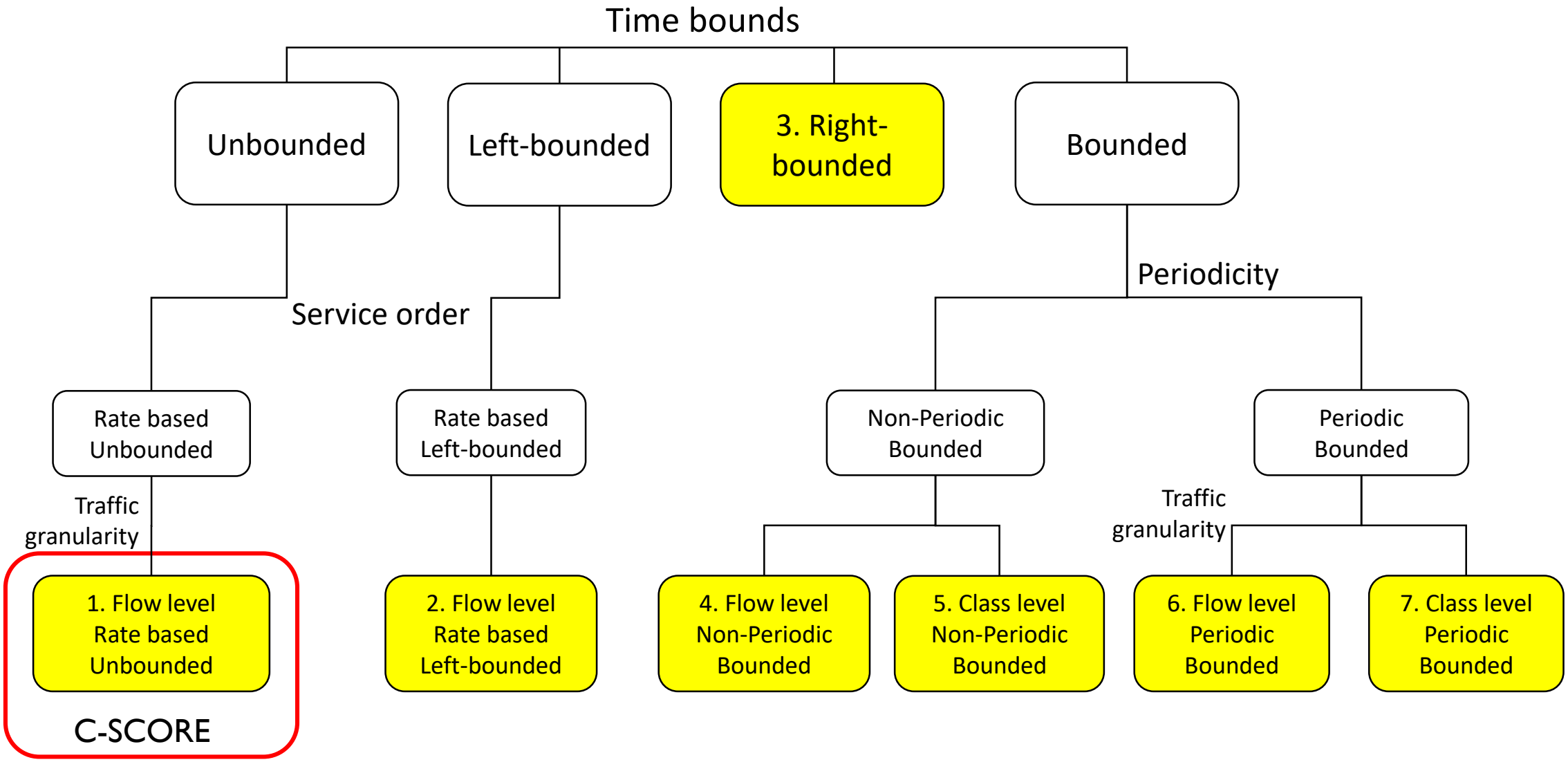
- Included in “Asynchronous Deterministic Networking Framework for Large-Scale Networks” draft-joung-detnet-asynch-detnet-framework
- as one of the async. data plane solutions, from June 2022.

- Separated to an independent draft with the requests from WG, on June 2023.



- Has been through intensive debates, discussions, and revisions until IETF 119.

Category of C-SCORE



Discussion

- In the 1st suitable category, C-SCORE is the only solution currently being suggested.
- C-SCORE has
  - an easy admission control procedure
  - an excellent flow isolation (thus protection) property. Once admitted, a flow is not affected by other flows' fluctuation (their joins/leaves/mal-behaviors).
  - a flexibility to adjust E2E latency bounds, by setting the assigned service rates
  - an excellent statistical performance, due to its work conserving nature.

Future Plan

- The draft is now stable.
- WG adoption after this meeting.

Thank you

- Please take a look at

  https://datatracker.ietf.org/doc/draft-joung-detnet-stateless-fair-queuing/