Non Queue Building (NQB) Per Hop Behavior
draft-ietf-tnswg-nqb-22

Greg White, CableLabs
Thomas Fossati, Linaro
Rüdiger Geib, DT
TSVWG @ IETF 119
March 18, 2024
Status

• First WGLC November 2, 2022 – Feb 22, 2023
• Drafts -15 thru -21 published in 2023
• Draft-22 published Feb 16
• Milestone: Submit as Proposed Standard RFC by December 2023
Draft-22 deltas

• Detailed review done by Bob Briscoe in preparation for final WGLC
  • [https://mailarchive.ietf.org/arch/msg/.tsvwg/XPehj4puGc4Yo2EK2NrKfW5FcHI/](https://mailarchive.ietf.org/arch/msg/.tsvwg/XPehj4puGc4Yo2EK2NrKfW5FcHI/)
  • Technical comments
    • Need a requirement for NQB PHB to limit burstiness
      • **DONE: new section 5.3 added.**
    • Recommendations regarding **Interoperability with Non-DS-Capable Domains**
      • There are 3 options provided: re-mark all NQB to 0 (primary recommendation), use traffic protection and only re-mark offending traffic, use traffic protection and drop offending traffic. Drop should be discouraged. Selective re-marking should be the preferred option.
      • **DONE: Agreed to discourage drop. Reworked the other two options to be on equal footing.**
    • **Traffic Protection**
      • It isn’t clear that traffic protection is intended to be implemented locally at the PHB node.
      • Confusingly, policing at the ingress edge is also discussed in this section.
      • More clarity needed on distinction between traffic protection and traffic conditioning.
      • Add re-classification without re-marking as a third possible action
      • Other minor wording changes.
      • **DONE: significant clarifications and adjustments made in section 5.2**
  • 50+ nits
    • **Resolved on Dec. 20**
      • See: [https://mailarchive.ietf.org/arch/msg/.tsvwg/RtsedvHP8CJJQbrzHaFVxUkH2aU/](https://mailarchive.ietf.org/arch/msg/.tsvwg/RtsedvHP8CJJQbrzHaFVxUkH2aU/)
Draft-22 status

• This draft includes:
  • All changes arising from WGLC comments
  • All changes arising from post-WGLC comments

• All issues in the GitHub issues tracker are closed
  • [https://github.com/gwhiteCL/NQBdraft/issues](https://github.com/gwhiteCL/NQBdraft/issues)
Next Steps

• Begin final WGLC