

Non Queue Building (NQB) Per Hop Behavior

[draft-ietf-tsvwg-nqb-01](#)

Greg White, CableLabs

Thomas Fossati, ARM

TSVWG Interim

April 8, 2020

Status

- Adopted TSVWG following IETF105
- Draft-00 published Nov. 4, 2019
 - Restructured to align with other PHB specs
 - Addressed most comments made during IETF105 & on mailing list
 - Interaction with WiFi EDCA not sufficiently addressed
- Draft-01 published March 9, 2020
 - Rewrote section on WiFi interoperability, introduced new requirements to provide safeguards
 - Other minor editorial changes
- Remaining work
 - Examine impact of existing remarking pathologies
 - More detail on what happens if SHOULDs are not followed
 - Further alignment with PHB spec guidelines (RFC 2474 / RFC 2475)

RFC2475 PHB Specification Guidelines

Guideline	status
G.1: must specify a recommended DS codepoint	done
G.2: should provide an overview of behavior / problem-statement	done
G.3: for a PHB group, interactions should be specified	N/A
G.4: if dependent on constraints (e.g. provisioning restrictions), should describe behavior when constraints are violated	done
G.5: should specifically state whether PHB is local-use or general-use	done
G.6: for a PHB group, should state circumstances for intra-group DSCP modification	N/A
G.7: should include a section on implications of tunneling	TO-DO
G.8: should discuss coexistence with other standardized PHBs	partially done
G.9: should include conformance requirements	done
G.10: should discuss security implications	done
G.11: should detail configuration and management issues	TO-DO
G.12: strongly recommended to provide an appendix that considers implications of the PHB on current and potential services	need to move to appendix
G.13: for local-use PHBs, an appendix should provide guidance on remarking at DSCP boundaries	N/A
G.14: an appendix should be provided that considers any impact on higher-layer protocols	TO-DO
G.15: an appendix to recommend mappings to link-layer QoS mechanisms	need to move to appendix