98-0885R1 Proposal To Move The DFBA Text To Baseline

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The DFBA Scheme: 98-0405Motion

GFR Sample Implementations

□ VII.2.1: WFQ and Per-VC Accounting • Works for TCP [ATM Forum 97-0528] • Multiple TCPs per VC not tested □ VII.2.2: Tagging and FIFO Queuing • Does not work for TCP [ATM Forum 97-0310] □ (Proposed VII.2.3): DFBA [ATM Forum 98-0405] • Works for TCP • Works for multiple TCPs per VC • Works for terrestrial and satellite RTTs







New Baseline Text

VII.2.1 GFR Implementation using Weighted Fair Queuing and per-VC accounting

(Unchanged)

VII.2.2 GFR Implementation Using Tagging and FIFO Queue

(Unchanged)

VII.2.3 GFR Implementation Using Differential Fair Buffer Allocation

(From living list)

VII.2.4 Evaluation Criteria

(From VII.2.3 in the baseline text document.)

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DFBA Algorithm
  When first cell of frame arrives:
 IF (X < L) THEN
      Accept frame
 ELSE IF (X > H) THEN
      Drop frame
 ELSE IF ( (L < X < H) AND (X<sub>i</sub> \leq X×W<sub>i</sub>/W ) )
      Drop CLP1 frame
 ELSE IF ( (L < X < H) AND (X<sub>i</sub> > X×W<sub>i</sub>/W))
      Drop CLP1 frame
      Drop CLP0 frame with
 P\{Drop\} = Z_i \left( \alpha \times \frac{X_i - X \times W_i / W}{X(1 - W_i / W)} + (1 - \alpha) \times \frac{X - L}{H - L_{Rai}} \right)
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Motion

Move the modified Section VII.2.3 in the GFR section of the living list to the baseline text.