draft-ietf-ledbat-congestion-03

Editors/Doc Structure

- New active editors assigned
  - J. Iyengar, Mirja Kuehlewind
- Document restructured
  - Ledbat CC sections grouped under sender/receiver specific
  - Separate section around parameterization and fairness
  - Clock skew correction discussion moved to appendix
  - From version 3 we also intend to remove everything beyond A.2.1 which is the deployed mechanism presently, everything else is speculative at best

Editorial

- Intro should include discussion on TCP Vegas which forms the basis for a lot of observations in this design
- Applicability to TCP seems far out and we would like to remove it
  - Adapting TS to start measuring one-way delay is non-trivial
- There should be some discussion around BW and the kind of links where Ledbat is appropriate
  - If somebody tries to run this on 10G for instance it clearly wont work as designed
- Replace TCP with Standard TCP

Parameters

- Delay target
  - Delay target moved to 100ms from 25ms in Version 2
  - Discussion on specifying a range, SHOULD be x but MUST be no more than Y
  - Version 3: TARGET parameter MUST be set to 100 milliseconds (matches implementation)
- Gain
  - Reverting to the text from version 1, version 3 will say "GAIN MUST be set so that the max ramp up rate is the same as for TCP"

Random reshuffling for fairness

- We are keeping this even though parameter SHOULD be set to zero in the common case. Ok?

- random_input()

    ```
    # random() is a PRNG between 0.0 and 1.0
    # RANDOMNESS_AMOUNT is normally 0
    RANDOMNESS_AMOUNT * TARGET *
                            ((random() - 0.5)*2)
    ```