
Fairness Add Hoc Report to WG

Necdet Uzun

Attendees:

Stein Gjessing

K. K. Ramakrishnan

David James

Dongmei Wang

John Lemon

Necdet Uzun

Jon Schuringa

Chuck Kalmanek

Prasenjit Biswas

Subscriber list:

Michael Allen

Khaled Amer

Prasenjit Biswas

Leon Bruckman

Frederick Davik

Stein Gjessing

Chang Huang

David James

Chuck Kalmanek

Kshitij Kumar

Paritosh Kulkarni

John Lemon

Robert D. Love

Tom Mathey

Harry Peng

K. K. Ramakrishnan

Yan Robichaud

Jon Schuringa

Bob Sultan

Gary Turner

Necdet Uzun

Dongmei Wang

Jinmei Yang

Mete Yilmaz

Issues Discussed:

- Downstream shaper
- Conservative mode algorithm scalability
- **classA1 rate guarantees**
- **classB**
 - **rate guarantees**
 - **classB allocation levels**

Consensus:

Downstream shaper

- PROBLEM
 - classA0 guarantees
 - Fairness impact (starvation of downstream station(s))
- SOLUTION
 - Shape STQ as well as station's unreserved add traffic

Conservative mode scalability

- PROBLEM
 - As the number of nodes gets large, faster ramp up causes fairness to starve downstream stations
- SOLUTION
 - Decouple ramp up and ramp down (defined a new variable rampDownCoef for row 5,6 of Table 9.9, and change rampCoef to rampUpCoef everywhere else)