## Network Performance Isolation using Congestion Policing

draft-briscoe-conex-policing-00.txt

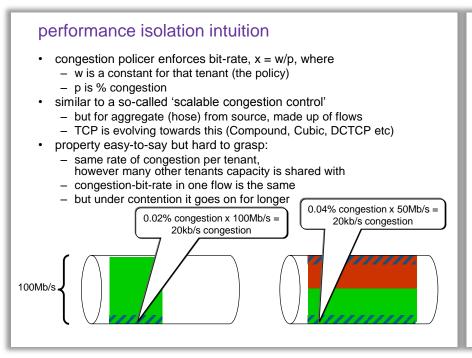
Bob Briscoe, BT IETF-87 ConEx Jul 2013

### draft status

- Network Performance Isolation using Congestion Policing draft-briscoe-conex-policing-00.txt
- new individual draft Feb '13
  - mostly cut & pasted from conex-data-centre, but new info too
  - not specific to data centres
- largely complete (33pp)
- immediate intent: encourage review & consider for WG adoption
- audience: ConEx & non-ConEx assumed sceptical
  - how it works is simple
  - why it works is outside people's comfort zones
  - how can you isolate users with no per-user config on switches?

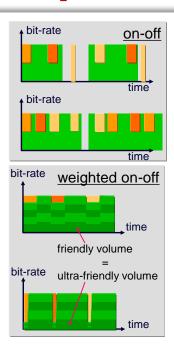
### what's in it, and what's new

- Frontpieces (Abstract, Intro)
- 2. Example Bulk Congestion Policer [new]
- 3. Performance Isolation: Intuition [corrected]



#### intuition built-up as follows

- 'scalable congestion control' as boundary case (previous slide)
- · single link
  - long running flows, single link
    - similar to (weighted) round-robin
  - on-off flows
    - congestion-volume accounts for how often a tenant is not 'on'
  - weighted on-off flows
    - · longer flows shift away
- network of links
  - congestion-volume allows for how many links tenant is 'on' in
- transients



- 4. Parameter Setting [new]
- Tailpieces (Security, Conclusions, Acks)

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