



#### Overview

- ♦ interrupt with ?s
- my opinion is of unknown worth
- if you agree with everything I say you don't understand what I said you don't understand the problems Gartner Group would like your name

trends- 3

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## LAN Switches active-flow control 802.3x vLANs buffering cut-through more under routing importance of latency

#### Latency

- latency only from the user's point of view service latency
- client + network + server latency
- network transit latency small unless satellite
- data transfer TCP not effected much by consistent network latency
   big issues:
  - server latency buffering in network devices

trends- 7

#### Routers & Routing

- interconnect "networks" IGPs & EGPs note ATM needs routing
- ♦ as fast as needed
- "level 3 switches"
- two types of routing datagram flow (a.k.a. cut-through)











- "just" make network "big" enough
- reasonable on a LAN or campus network
- hard to do for WAN
- tends to provide cycles of quality over build for need need catches up and passes capacity over build for new need





- new work
- packets are "marked" at edge of net e.g. precedence bits
- ♦ 2 or more levels
- multiple mechanisms proposed drop priority, queue selector

















- non-respecting of borders Internet a real problem
- what is a community? what is a culture?
- set rules that can not be implemented e.g. CDA
- how work out Internet governance? could we create the telco settlements policy today?



### Impact on the IETF currently "the" venue for "network" technology ITU trying pressure for more WGs on more topics some vendors ask for "blessing" of proprietary technology fewer confrontations that expected but some IETF scale (WGs & attendees) an issue



