draft-polk-mmusic-dscp-attribute-02

IETF71 - Philadelphia

James Polk

The Requirement

- The ability to initially offer or dynamically change the DSCP of a session, with per stream granularity

- Why:
  - This gives endpoints the ability to offer what DSCP (perhaps a service class) a caller wants to use
  - This gives endpoints the ability to change the DSCP of a call mid-session based on changing network conditions

The Candidates

- Do this in SDP
  - where other attributes are set
- Do this in a SUB/NOT transaction within the same Call-ID

- Either solution requires new code
- the latter (probably) won't get implemented as widely

The Proposal

- Modify SDP for call set-up
  - Media Level Attribute

  dscp=dscp-value-rtp/dscp-value-rtcp direction-tag

  - To be set by offerer and answerer in signaling path as
    - decimal value (46)
    - binary (101110) or
    - Text (EF)

  - dscp-value-rtcp (optional)

  - direction-tag (optional)
    - sendrecv
    - sendonly
    - recvonly

Attribute examples with this Extension

a=dscp 46/8 sendrecv

a=dscp EF/CS1 sendonly

a=dscp 101110/001000 recvonly

What changed between -01 and -02

- Removed all text involving servers (doing anything)
- Added direction-tag
- Added non-decimal codepoints to be conveyed
  - getting towards PHB setting
- Added ability of answerer to not have to copy offer's attribute value
- Misc. edits and fixes

Known Open Issues

- Now that I've removed **<u>servers</u>** from doc... I haven't received any comments stating there are any open issues

- Any comments here?

- ...

Next Steps

- Incorporate relevant suggestions
- Is there sufficient interest from WG to continue, perhaps as WG item?