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

\[dscp=dscp-value-rtp/dscp-value-rtcp \text{ direction-tag}\]

  – 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 servers 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?