

# New SDP Attribute for setting/changing DSCP of a one or more streams

draft-polk-mmusic-dscp-attribute-00

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# Media Level Attribute

- For granularity of each stream within an offer/answer
- (Likely) To be set by server in signaling path in offer and in answer
- Example:

a=dscp 46

# Offer examples

- An SDP message body for voice only

- Audio
- UDP port # 49172
- Codecs supported: G.711

```
v=0
o=alice 2890844526 2890844526 IN IP4 atlanta.com
c=IN IP4 10.1.3.33
t=0 0
m=audio 49172 RTP/AVP 0
a=rtpmap:0 PCMU/8000
```

- An SDP message body for voice and video

- Audio
- UDP port # 49172
- Codecs supported: G.711
- Video
- UDP port # 51172
- Codecs supported: H.261, H.263

```
v=0
o=alice 2890844526 2890844526 IN IP4 atlanta.com
c=IN IP4 10.1.3.33
t=0 0
m=audio 49172 RTP/AVP 0
a=rtpmap:0 PCMU/8000
m=video 51172 RTP/AVP 31 34
a=rtpmap:31 H.261/90000
a=rtpmap:34 H.263/90000
```

# Offer examples with this Extension

- An SDP message body for voice only

- Audio
- UDP port # 49172
- Codecs supported: G.711
- DSCP 46

```
v=0
o=alice 2890844526 2890844526 IN IP4 atlanta.com
c=IN IP4 10.1.3.33
t=0 0
m=audio 49172 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=dscp 46
```

A new "a=" line in SDP indicating DSCP of this stream

- An SDP message body for voice and video

- Audio
- UDP port # 49172
- Codecs supported: G.711
- DSCP 46
- Video
- UDP port # 51172
- Codecs supported: H.261, H.263
- DSCP 41

```
v=0
o=alice 2890844526 2890844526 IN IP4 atlanta.com
c=IN IP4 10.1.3.33
t=0 0
m=audio 49172 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=dscp 46
m=video 51172 RTP/AVP 31 34
a=rtpmap:31 H.261/90000
a=rtpmap:34 H.263/90000
a=dscp 41
```

# New Suggestions about direction

1. Add a “/dscp-value” to the attribute per stream to be able to set RTP dscp value too  
‘a=dscp 46/11’ or ‘a=dscp 46 11’
2. Allow offerer to include “a=” line per stream without a value to indicate support for extension
3. Allow offerer to include dscp value to indicate which dscp of a multi-dscp plan a user happens to want for each stream (a gold/silver/bronze service)

# Next Steps

- Open Issues
  - Fix the ABNF
  - Clarify that this is for one domain (i.e. more or less “a private network”)
  - Clarify that multi-domain interworking will require a border element as transition point
- Incorporate relevant suggestions
- Is there sufficient interest from WG to continue?