

Payload
Offer/Answer Considerations for
G.723 Annex A and G.729 Annex B
(draft-muthu-payload-offer-answer-g723-g729-00)

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Agenda

- Problem Statement
- Solution Considerations
- Next Steps

Problem Statement

- Offer/Answer considerations not specified for the following codec parameters in RFC4856
 - annexa parameter of G723
 - annexb parameter for G729, G729D and G729E
- Implementations consider the Annex B (or Annex A) flavor as incompatible with the non-Annex B (or non-Annex A) flavor of the same codec
- Undesirable user experience
 - Call failure when no other common codec to use
 - Undesirable codec matched

Problem Statement

Offer with G279 and no annexb parameter:

```
v=0
o=alice 2890844526 2890844526 IN IP4 host.atlanta.example.com
s=
c=IN IP4 host.atlanta.example.com
t=0 0
m=audio 49170 RTP/AVP 18
a=rtpmap:18 G729/8000
```

Answer with G729 annexb=no:

```
v=0
o=bob 1890844326 1890844326 IN IP4 host.bangalore.example.com
s=
c=IN IP4 host.bangalore.example.com
t=0 0
m=audio 19140 RTP/AVP 18
a=rtpmap:18 G729/8000
a=fmtp:18 annexb=no
```

End result: Call failure

Expectation: Least common denominator (i.e G.729) be used

Solution Considerations

- Permit the answer to contain "yes" (explicitly or by default) when the offer contained "no " and specify that this still means Annex A or Annex B is not to be used.

OR

- REQUIRE that the answer contain "no" if the offer contained "no".
- Forbid the answer from explicitly containing "yes" when the offer contained "no", but allow the answer to implicitly contain "yes" (via the default) and treat it as "no"

Next Steps

- Is there a problem?
- Is Payload the right WG for solving this problem?
- Should a milestone be added in the charter for this problem?
- Ask for more review?