



50th IETF
MMUSIC WG meeting

The fid attribute

draft-ietf-mmusic-fid-00.txt

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Outline

Brief introduction to media flows

Examples

Changes from previous version

draft-camarillo-sip-sdp-01.txt

Changes that will appear in the next version

No optimization

Expressing alternatives

Introduction to media flows

Definition of a media flow

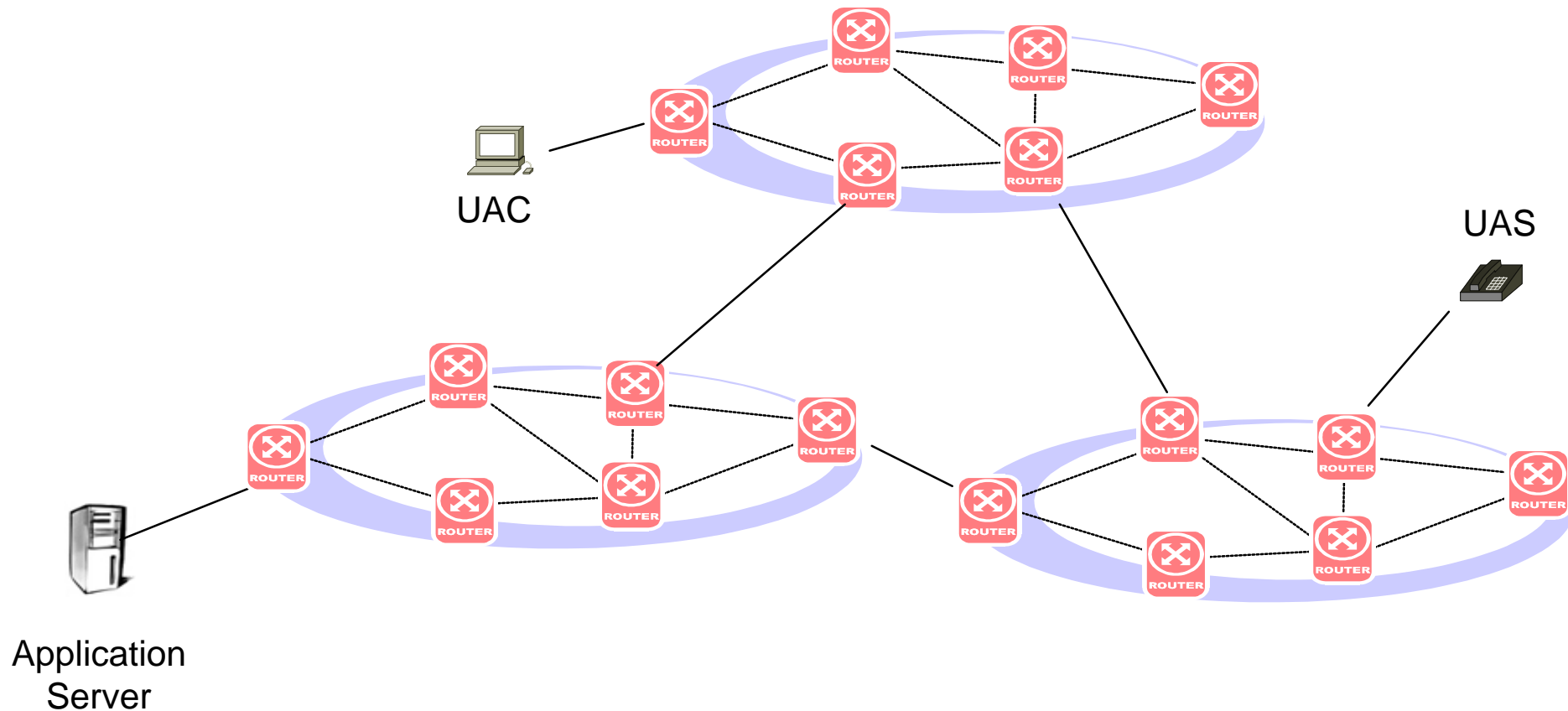
Media flow consists of a single media instance, e.g., an audio stream or a video stream as well as a single whiteboard or shared application group. When using RTP, a media flow comprises one or more RTP sessions.

Example

```
v=0
o=A 2890831 2891245 IN IP4 first.example.com
t=0 0
c=IN IP4 111.111.111.111
m=audio 20000 RTP/AVP 0
a=fid:1
m=audio 20002 RTP/AVP 8
a=fid:1
```

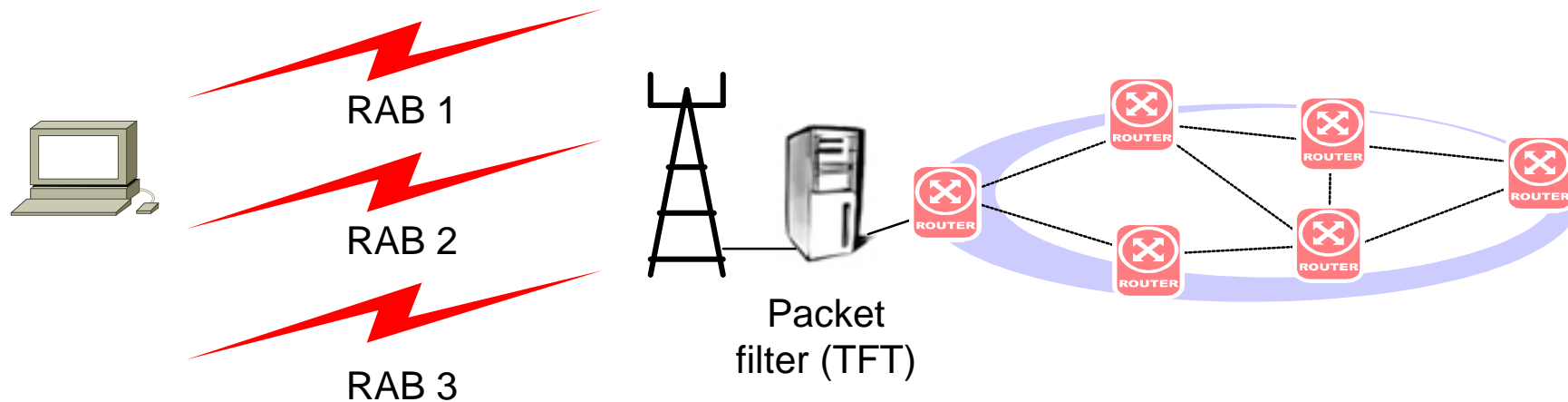
Application server gathering DTMF tones

DTMF tones should be sent to a different IP address than the voice
DTMF tones should be sent to two IP addresses



Cellular access

Cellular terminals handle different codecs on different ports.



Changes from previous version

Clarified meaning of fid

A UA handling a media flow that comprises several "m" lines sends media to different destinations (IP address/port number) depending on the codec used at any moment. If several "m" lines contain the codec used media is sent to different destinations in parallel.

```
m=audio 30000 RTP/AVP 0
```

```
a=fid:1
```

```
m=audio 30002 RTP/AVP 8
```

```
a=fid:1
```

```
m=audio 30004 RTP/AVP 0 8
```

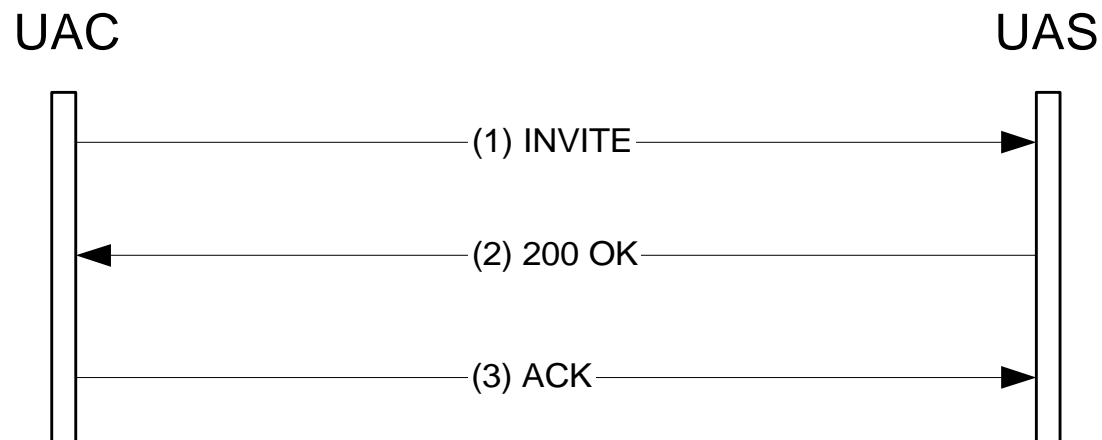
```
a=fid:1
```

Changes that will appear in the next version

No interactions with draft-andreasen-mmusic-sdp-simcap-01.txt

Fid will be used for expressing alternatives

Optimizations of a SIP session establishment removed



SDP in the INVITE OR in the ACK

Optimization requires SDP in INVITE AND ACK

INVITE

v=0
o=A 2890831 2891245 IN IP4 first.example.com
t=0 0
c=IN IP4 111.111.111.111
m=audio 20000 RTP/AVP 0 8
a=fid:1

ACK

v=0
o=A 2890831 2891245 IN IP4 first.example.com
t=0 0
c=IN IP4 111.111.111.111
m=audio 20000 RTP/AVP 0
a=fid:1
m=audio 20002 RTP/AVP 8
a=fid:1

200 OK

v=0
o=B 2890912 2891456 IN IP4 second.example.com
t=0 0
c=IN IP4 222.222.222.222
m=audio 30000 RTP/AVP 0
a=fid:1
m=audio 30002 RTP/AVP 8
a=fid:1