

SDP media alignment in SIP

draft-camarillo-sip-sdp-00.txt

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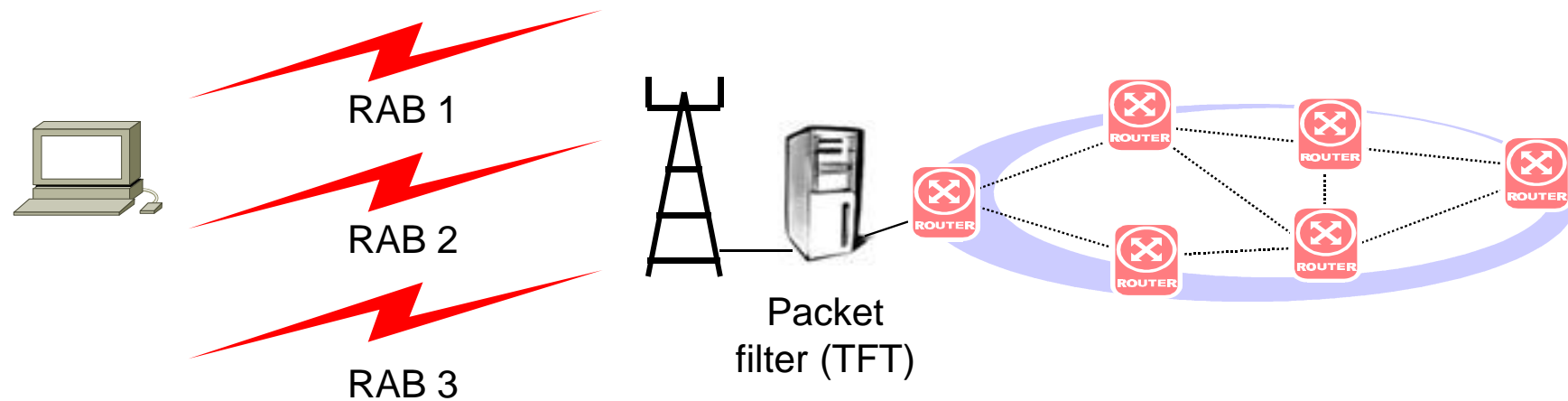
Outline

- **What is needed?**
- **Scenarios**
 - Cellular access
 - 3rd party developed RTP libraries
 - Transcoding point
- **Proposal: Flow identification**

What is needed?

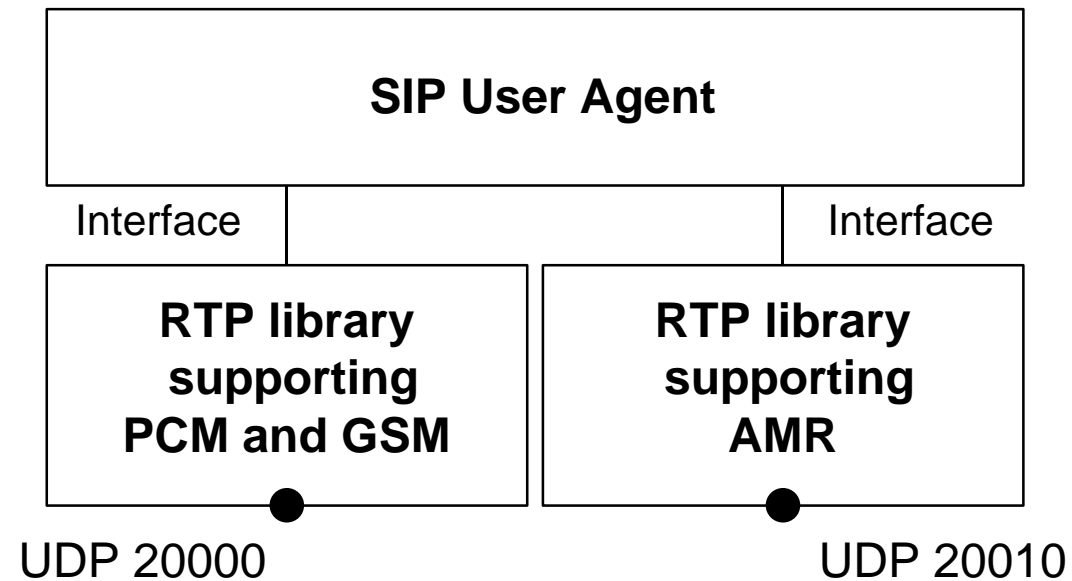
- **Systems have to be able to receive media from a single media stream, encoded in different formats during the session, in different ports and host interfaces.**
- **Better method to perform SDP media alignment in SIP than matching the nth lines.**

Cellular Access



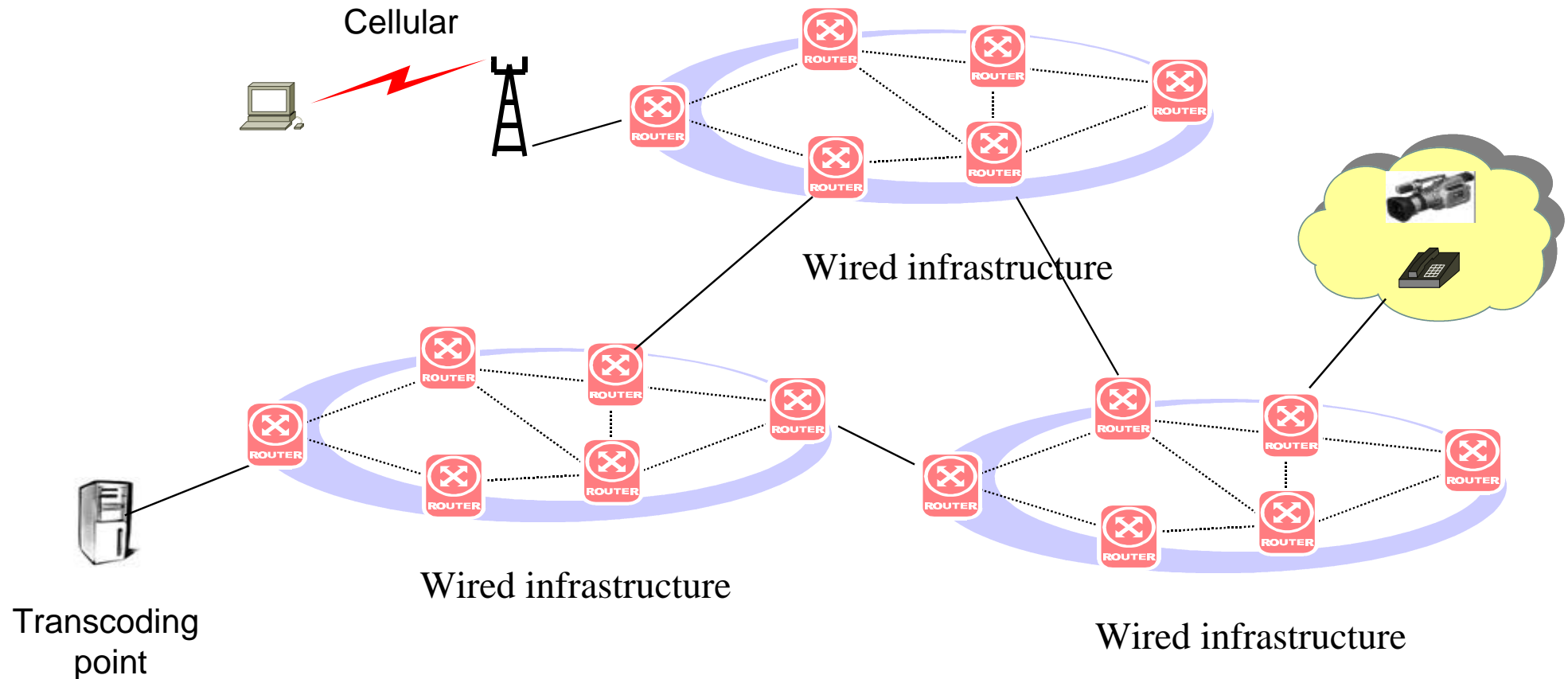
INVITE contains different port numbers for different codecs

3rd party developed RTP libraries



INVITE contains different port numbers for different codecs

Transcoding point



INVITE contains different IP addresses for different codecs

Proposal

- **SDP session parameter: Flow Identifier (fid)**

- **Example:**

```
v=0
o=Laura 289083124 289083124 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
c=IN IP4 123.123.123.123
a=fid:1
m=audio 30004 RTP/AVP 0
a=fid:2
m=audio 30006 RTP/AVP 8
c=IN IP4 123.123.123.123
a=fid:2
```