

Media Format Parameter for Voice-Band Data

draft-foster-mmusic-vbdformat-00.txt

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Bill Foster, Rajesh Kumar, Flemming Andreassen
(fandreass@cisco.com)

Background

- Voiceband data (vbd): Data, e.g. fax or modem, passed as audio using an audio codec, e.g. PCMU, PCMA, G.726.
- Looks transparent to VoIP, however voice and voiceband data have different trade-offs:
 - Voice: Low delay important
 - VBD: Low packet loss important
- A distinction between the two enables better handling, e.g. jitter buffer adaptation.

Proposed Solution

- Define new fmp parameter to associate with audio codec for voiceband data:

```
a=fmp:<payload-type> vbd
```

- An optimization hint to the other side.
- Completely backwards compatible.
- When voiceband data detected, switch to voiceband data codec on the fly:
 - Receiver can safely apply vbd treatment

Examples

- Example:

```
m=audio 3456 RTP/AVP 15 98  
a=rtpmap:98 PCMU/8000  
a=fmtp:98 vbd
```

- Note that a given codec can be specified both with and without “vbd”, e.g.

```
m=audio 3456 RTP/AVP 0 98  
a=rtpmap:98 PCMU/8000  
a=fmtp:98 vbd
```

Next Steps

- Comments ?
- Publish ?