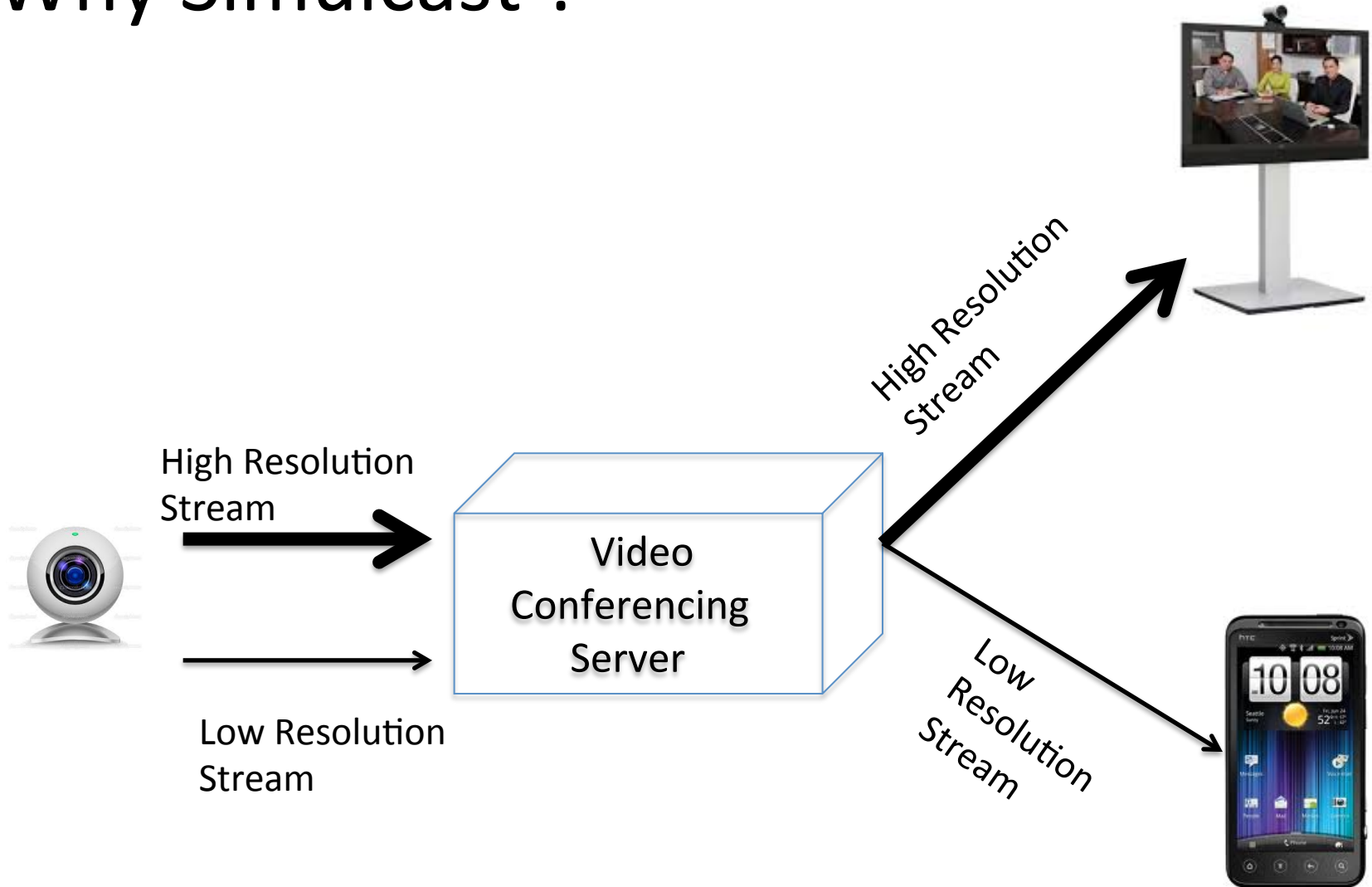


SIMUCALST Signaling in SDP

draft-nandakumar-mmusic-rtcweb-grouping

Suhas Nandakumar
snadaku@cisco.com

Why Simulcast ?



Proposed Solution

- This solution works with the Unified Plan (draft-roach-mmusic-unified-plan).
- A new SSRC grouping semantic called SIMULCAST is proposed .
- RFC6236 imageattr is proposed for a=ssrc attribute for muti-resolution simulcast sending.
- SDP source selection mechanism is proposed for receiver control, wherever applicable

Example – Offer With 2 Resolutions

m=video 62537 RTP/SAVPF 96 97

a=rtpmap:96 VP8/90000

a=rtpmap:97 VP8/90000

a=sendonly

a=ssrc:29154

a=imageattr:96 [x=1280,y=720] //Resolution 1

a=fmtp:96 max-fr=30;max-fs=3600

a=ssrc:47182

a=imageattr:97 [x=640,y=360] //Resolution 2

a=fmtp:97 max-fr=15;max-fs=880

a=ssrc-group:SIMULCAST 29154 47182

Example – Answer with only low-resolution Accepted

```
m=video 62537 RTP/SAVPF 97 // Accepted low-res stream  
a=rtpmap:97 VP8/90000  
a=recvonly
```