

# Grouping of Adjacent Media in SDP

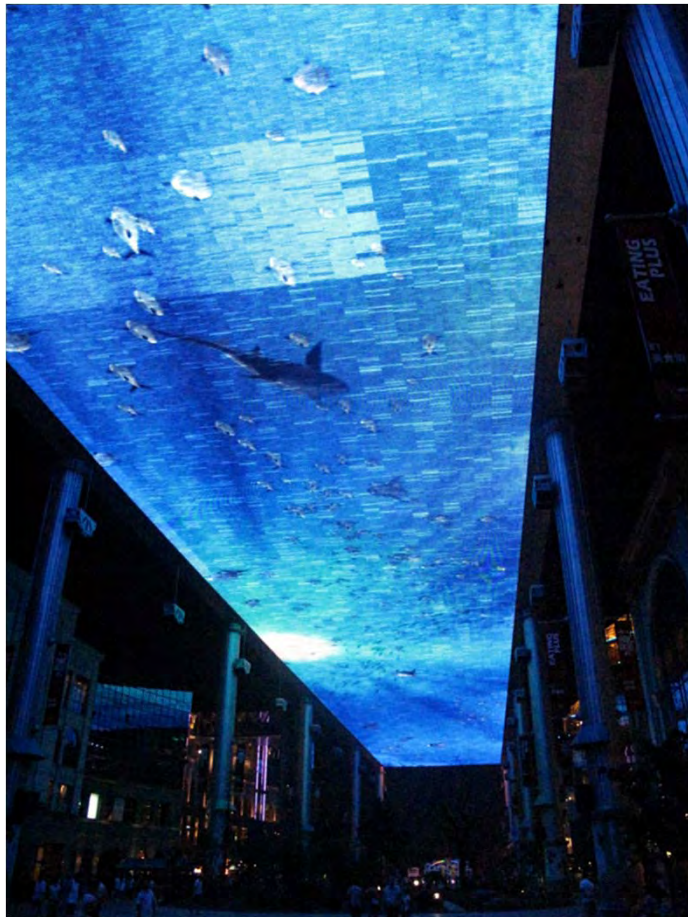
draft-jennings-mmusic-adjacent-grouping-02

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# Large Video Walls



By Troy (thewamphyri)  
<http://www.flickr.com/photos/thewamphyri/3930149308/>

- It is increasingly common to use combine a large number of video streams to form a large virtual display
- Photo on left is 6000 m<sup>2</sup> screen with 14.5 million pixels in Beijing
- Today SDP can signal multiple video streams, but
- **SDP has no way to say which stream goes on which display for a system like this**

# Solution for Linear Displays



21 million-pixel display in IAC building

- SDP has no way of saying which video stream goes on which display
- This drafts uses RFC 5888 to provide left to right order of video streams

v=0

O=Laura 289083124 289083124 IN IP4 example.com

c=IN IP4 192.0.2.1

t=0 0

a=group:ADJ s1 s2

m=video 52886 RTP/AVP 31

a=rtpmap:31 H261/9000

a=mid:s1

m=video 54132 RTP/AVP 31

a=rtpmap:31 H261/9000

a=mid:s2

Indicates order of streams is s1 then s2 going left to right

By Marius Watz  
<http://www.flickr.com/photos/watz/1772107776/>

# Solution for Grid Displays



- For display of information on an array of displays, this draft adds an option to indicate the size of the grid

v=0

O=Laura 289083124 289083124 IN IP4 example.com

c=IN IP4 192.0.2.1

t=0 0

a=media-grid-dims:2x2

Indicates a 2x2 grid

a=group:ADJ s1 s2 s3 s4

m=video 52886 RTP/AVP 31

a=rtpmap:31 H261/9000

a=mid:s1

... m and a lines for s2, s3, and s4

By Cha già José

<http://www.flickr.com/photos/chagiajose/3397564727/>

## Relation to Telepresence WG Proposal in Dispatch

- The proposed Telepresence WG has requirements and uses that go far beyond anything this proposal would solve
  - E.g., this would not provide the geometry and field-of-view information to make sure people appeared life size
- This *\*might\** be one small tool used by the TP WG to solve these problems



## Next Steps

- Opinions, comments, questions?
- MMUSIC or ISE?