Consumer Spatial Information

IETF CLUE Interim Meeting June 2012
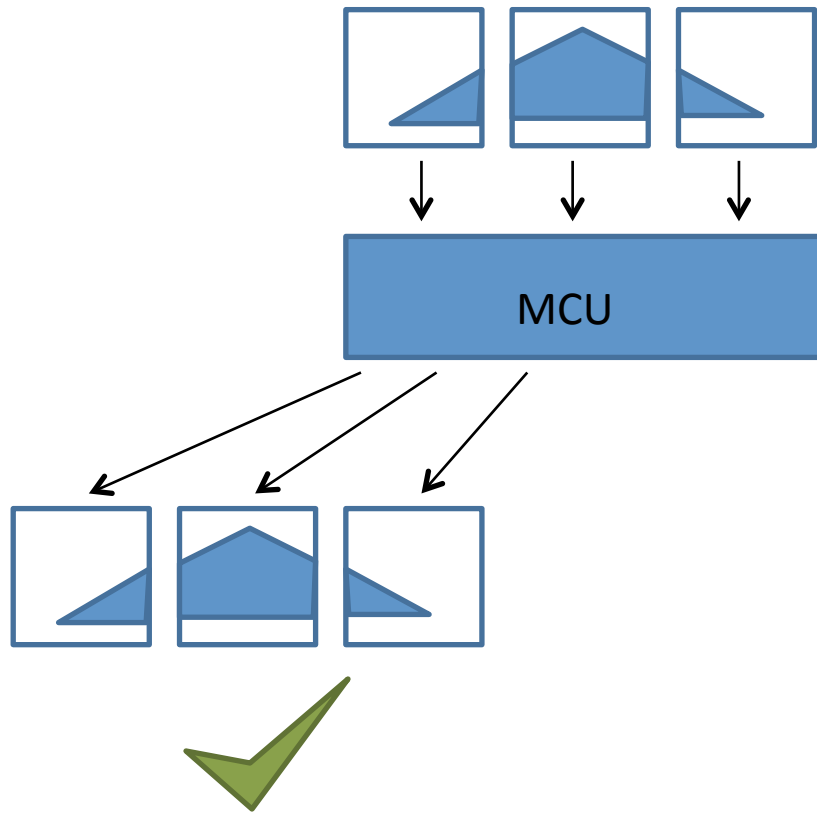
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The need for switching

- Conferences may have 100+ participants, 1000+ captures

- Consumers generally want to receive the active speakers

- In a switched conference it may not be possible to provide the spatial information from the originator in sync with the media packets
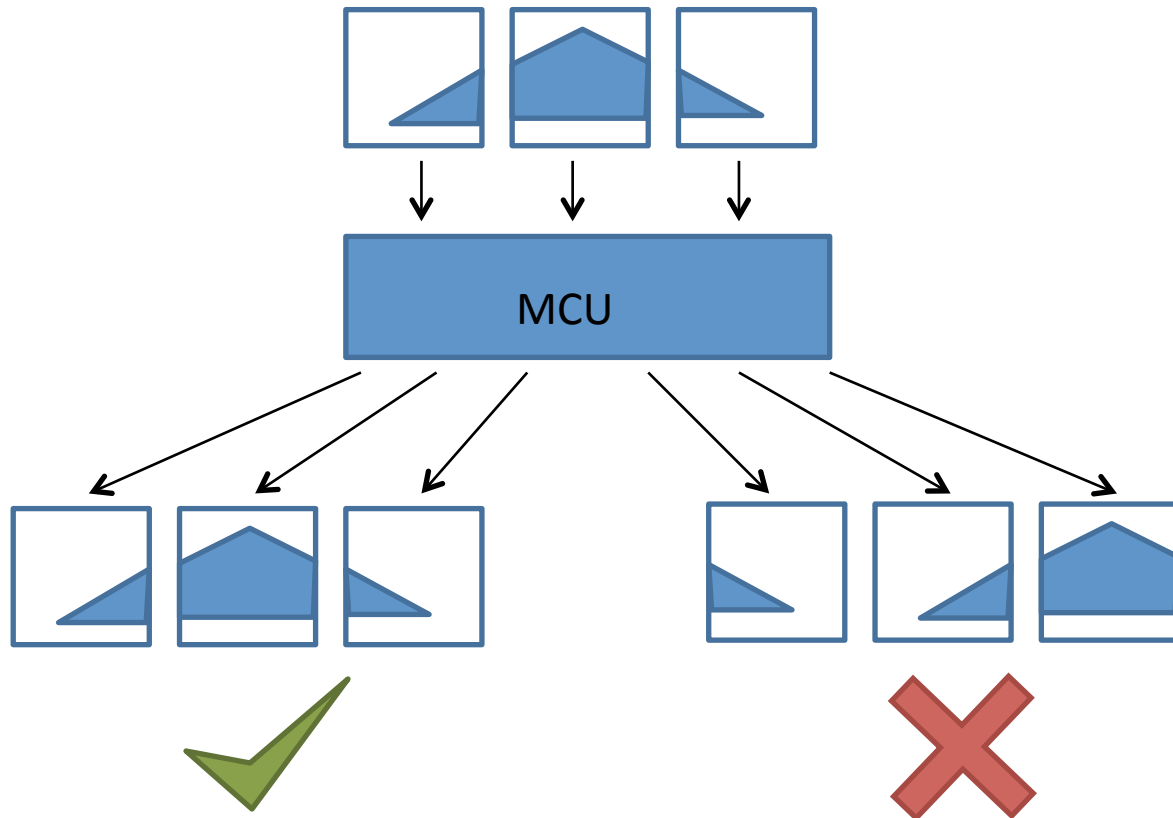
Multi-screen layout concerns
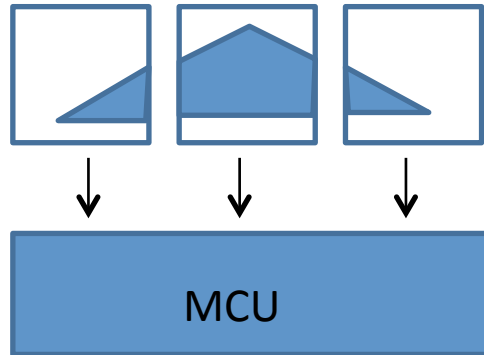
Multi-screen layout concerns

Multi-screen layout concerns

Provider-side spatial information

- Provider includes switched captures with appropriate spatial coordinates for a given layout

- Solves the problem for layouts the provider anticipates

- Requires the provider to anticipate and supply all layouts the consumer might want

Consumer-side spatial information

- Consumer choices may optionally include 'Area of Display' information, much like 'Area of Capture' provider-side information.
- The provider can use this information to optimise the ordering/selection of its streams