CLUE

draft-presta-clue-data-model-schema-02

Outline

- Overview of the draft
- Snapshots from the current schema

Overview

- The draft provides an XML Schema definition of information needed by the CLUE application as described in
  - draft-ietf-clue-framework-07
  - draft-romanow-clue-data-model-01
- In its current state, the proposed data model describes the available media captures of a telepresence room

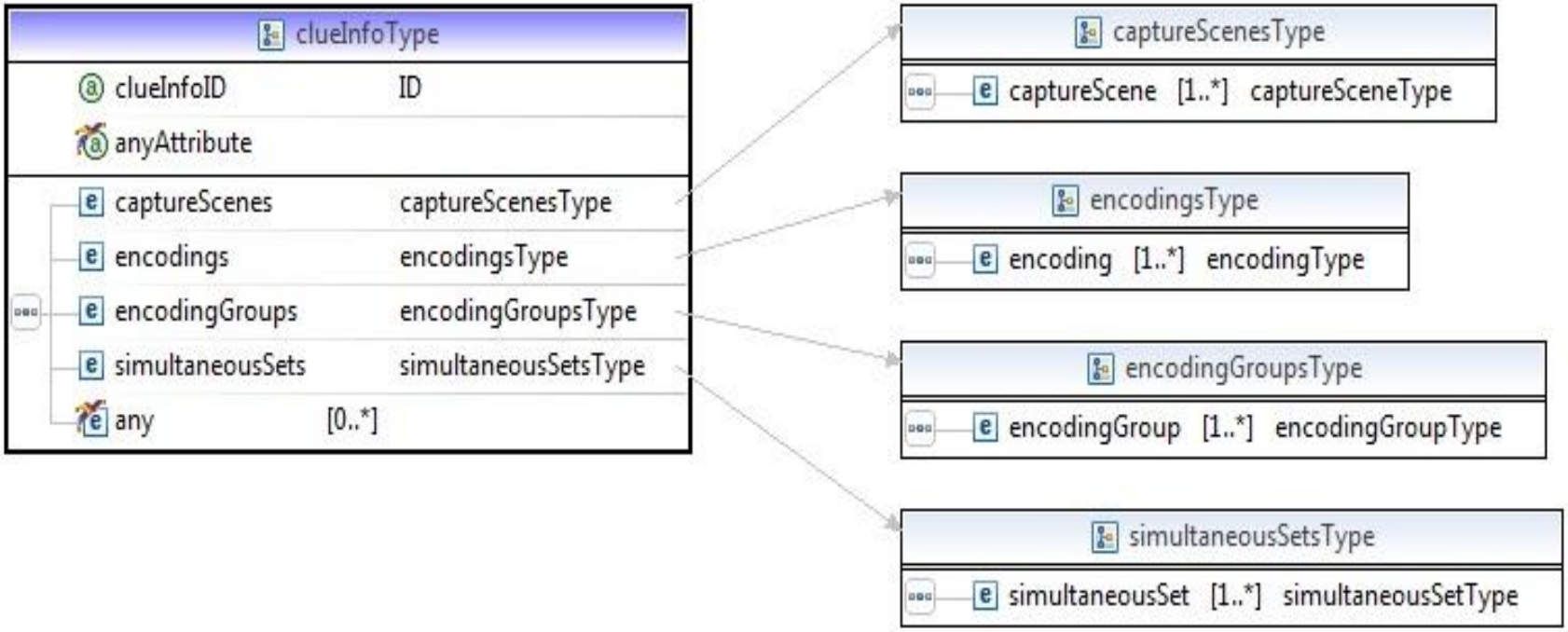
Overview

- It does not directly reflect the content of CLUE protocol messages…
  - …Though it resembles someway a preliminary form of advertisement
- CLUE messages will use the data model information

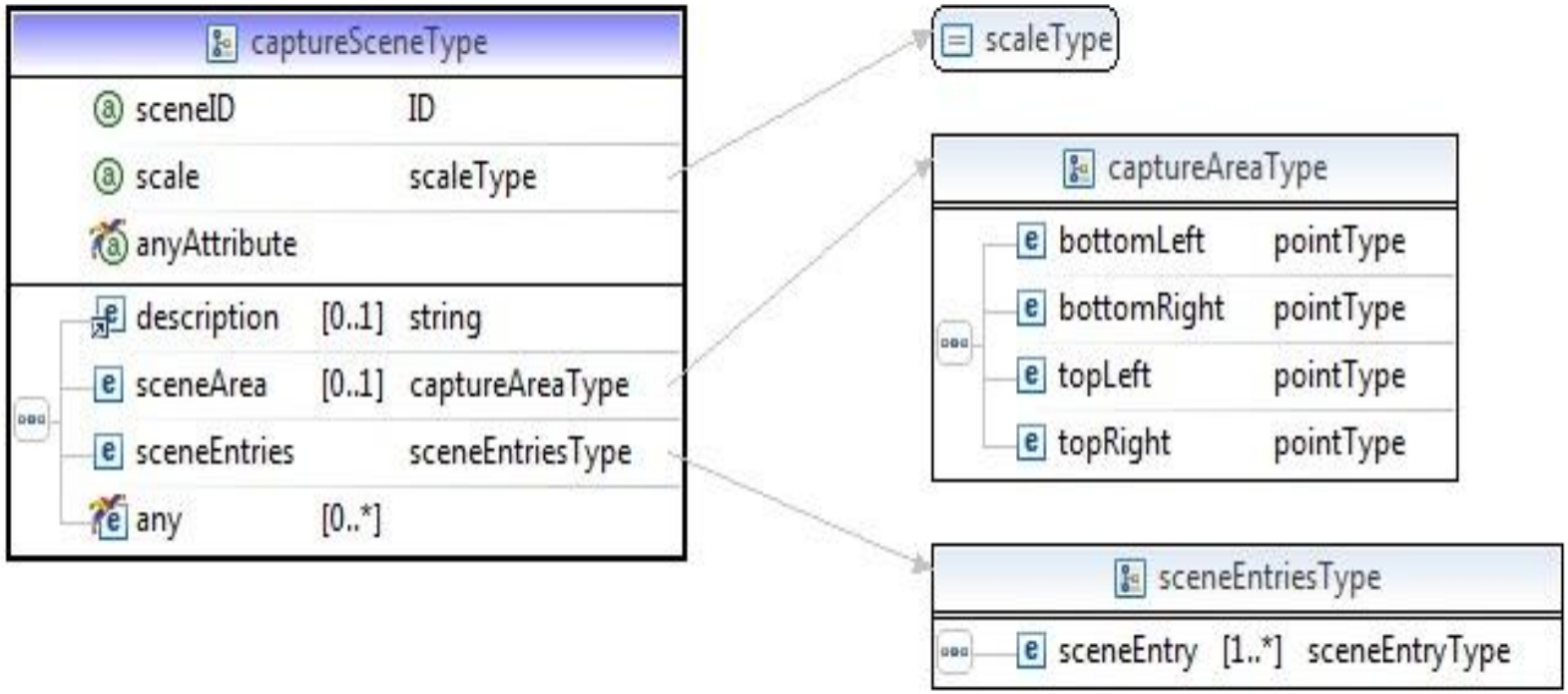
Overview

- Current version: -02
- A few updates derive from discussions on the mailing list about spatial information description
- The following are snapshots from the most up-to-date data model (slightly different from the -01 version)

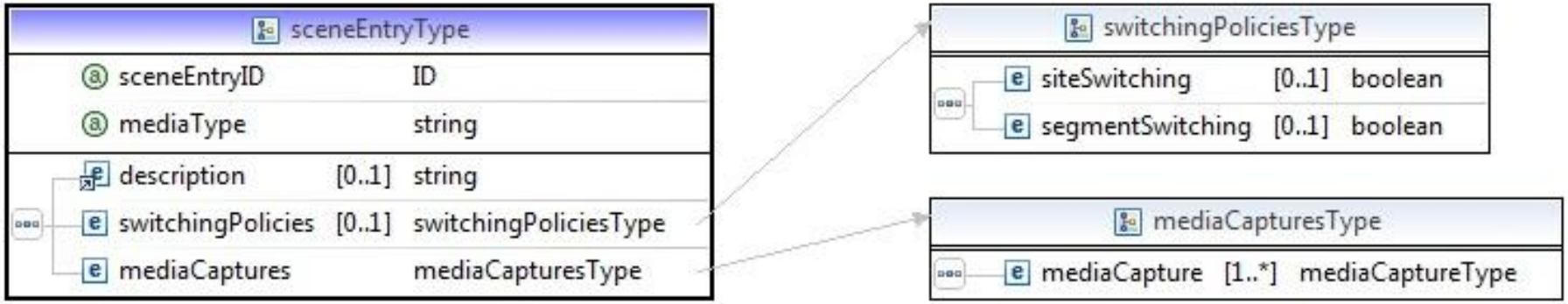
Clue info type –02



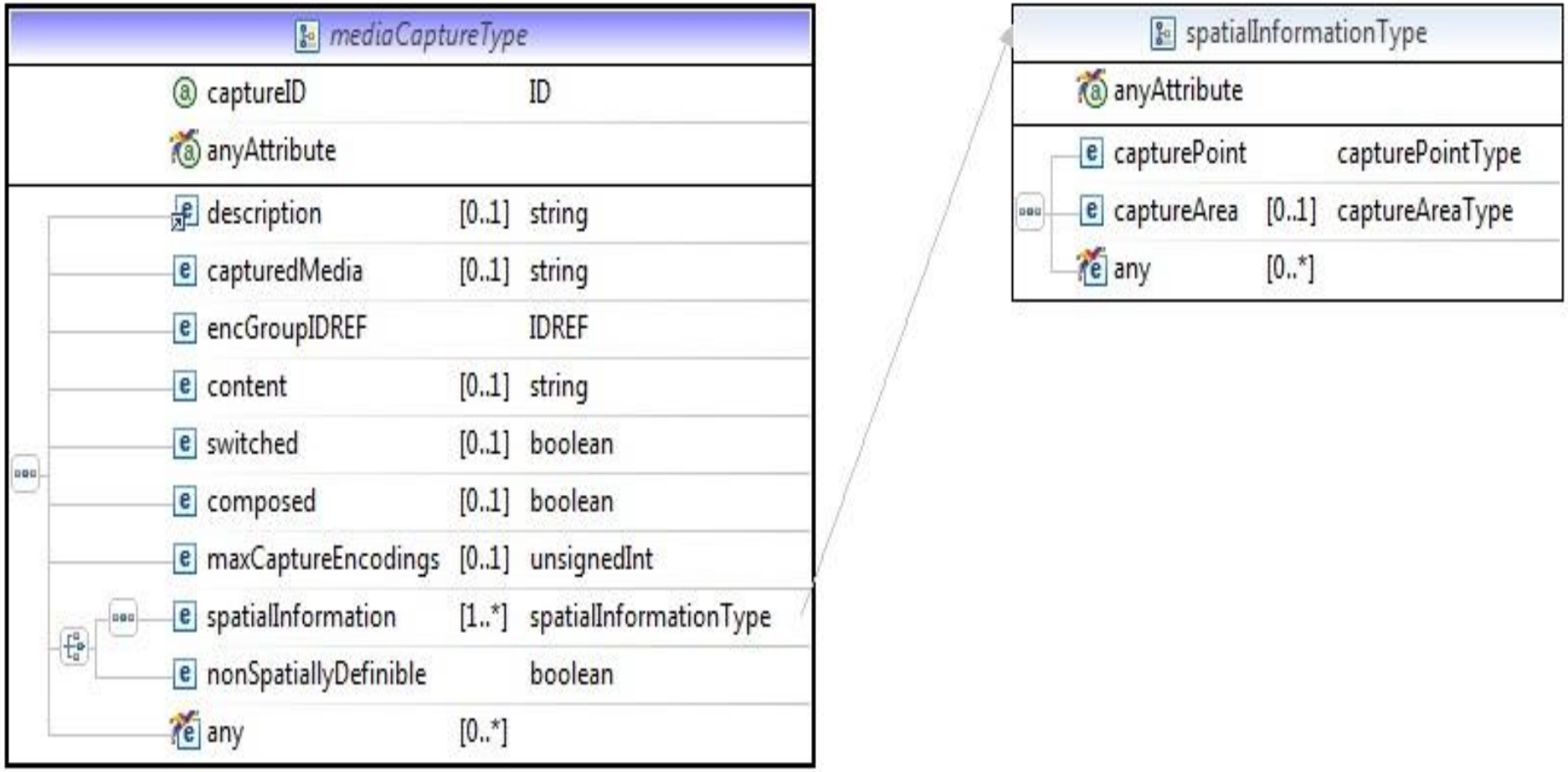
Capture scene type



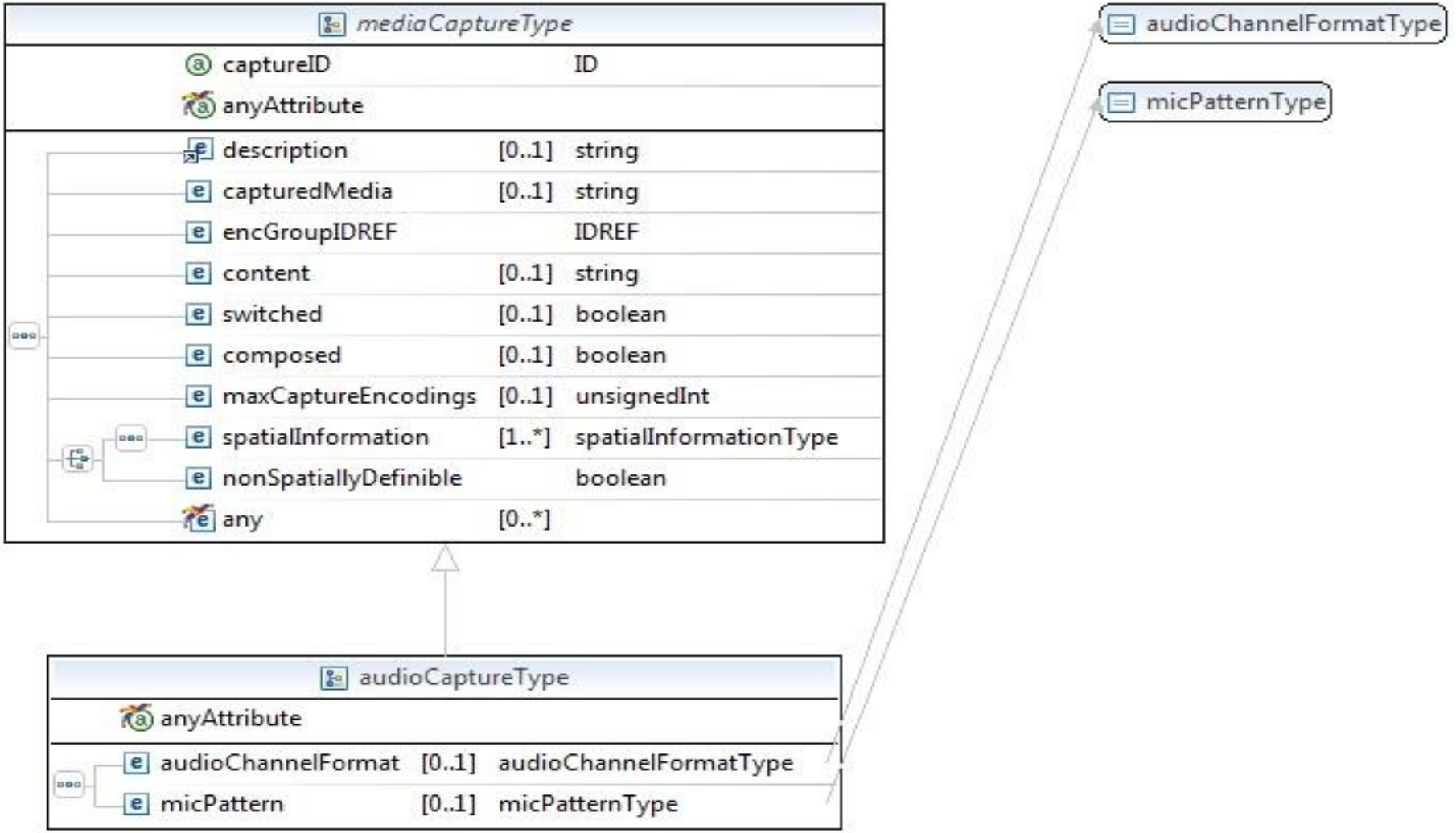
Scene entry type



Media capture type & Spatial information type



The audio capture type example



A simple video capture

- No-switching video, fixed camera
- <spatialInformation> provides
  - Capture point
  - Capture axis point
  - Capture area

A simple video capture example

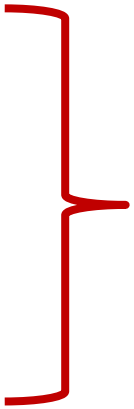
```
<mediaCapture xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xsi:type="videoCaptureType" captureID="VC0">
        <description>left camera video</description>
        <capturedMedia>video</capturedMedia>
        <encGroupIDREF>EG0</encGroupIDREF>
        <content>main</content>
        <spatialInformation>
              <capturePoint>    …
                        <captureAxisPoint>  ….
              </capturePoint>
               <captureArea>
                        <bottomLeft>  ….
                        <bottomRight>
                        <topLeft> ….
                        <topRight> ….
               </captureArea>
         </spatialInformation>
    </mediaCapture>
```

A more complex capture

- Loudest panel stream with PiPs
- 3 cameras
  - the central one capturing the loudest panel
  - The others capturing the rest of the room
- 3 possible spatial representations:
  - 1) the biggest captured space
  - 2) captured space of each components
  - 3) no spatial information provided

PiP video example - #1

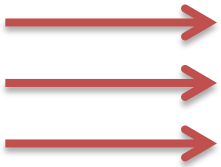
```
<mediaCapture xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xsi:type="videoCaptureType" captureID="VC5">
      <description>loudest panel with PiPs</description>
      <capturedMedia>video</capturedMedia>
      <encGroupIDREF>EG0</encGroupIDREF>
      <content>main</content>
      <composed>true</composed>
      <spatialInformation>
        <capturePoint>…
          <captureAxisPoint> …
        </capturePoint>
        <captureArea> …
        </captureArea>
      </spatialInformation>
    </mediaCapture>
```



Information about the max captured space

PiP video example - #2

```
<mediaCapture xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xsi:type="videoCaptureType" captureID="VC5">
      <description>loudest panel with PiPs</description>
      <capturedMedia>video</capturedMedia>
      <encGroupIDREF>EG0</encGroupIDREF>
      <content>main</content>
      <composed>true</composed>
      <spatialInformation> …
      <spatialInformation> …
      <spatialInformation> …
    </mediaCapture>
```



Spatial information of each component stream

PiP video example - #3

```
<mediaCapture xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                    xsi:type="videoCaptureType" captureID="VC5">
      <description>loudest panel with PiPs</description>
      <capturedMedia>video</capturedMedia>
      <encGroupIDREF>EG0</encGroupIDREF>
      <content>main</content>
      <composed>true</composed>
      <noSpatiallyDefinible>true</noSpatiallyDefinible>
    </mediaCapture>
```