SIPREC
Recording Metadata Model for SRS

SIPREC Virtual Meeting 28-sep-2010

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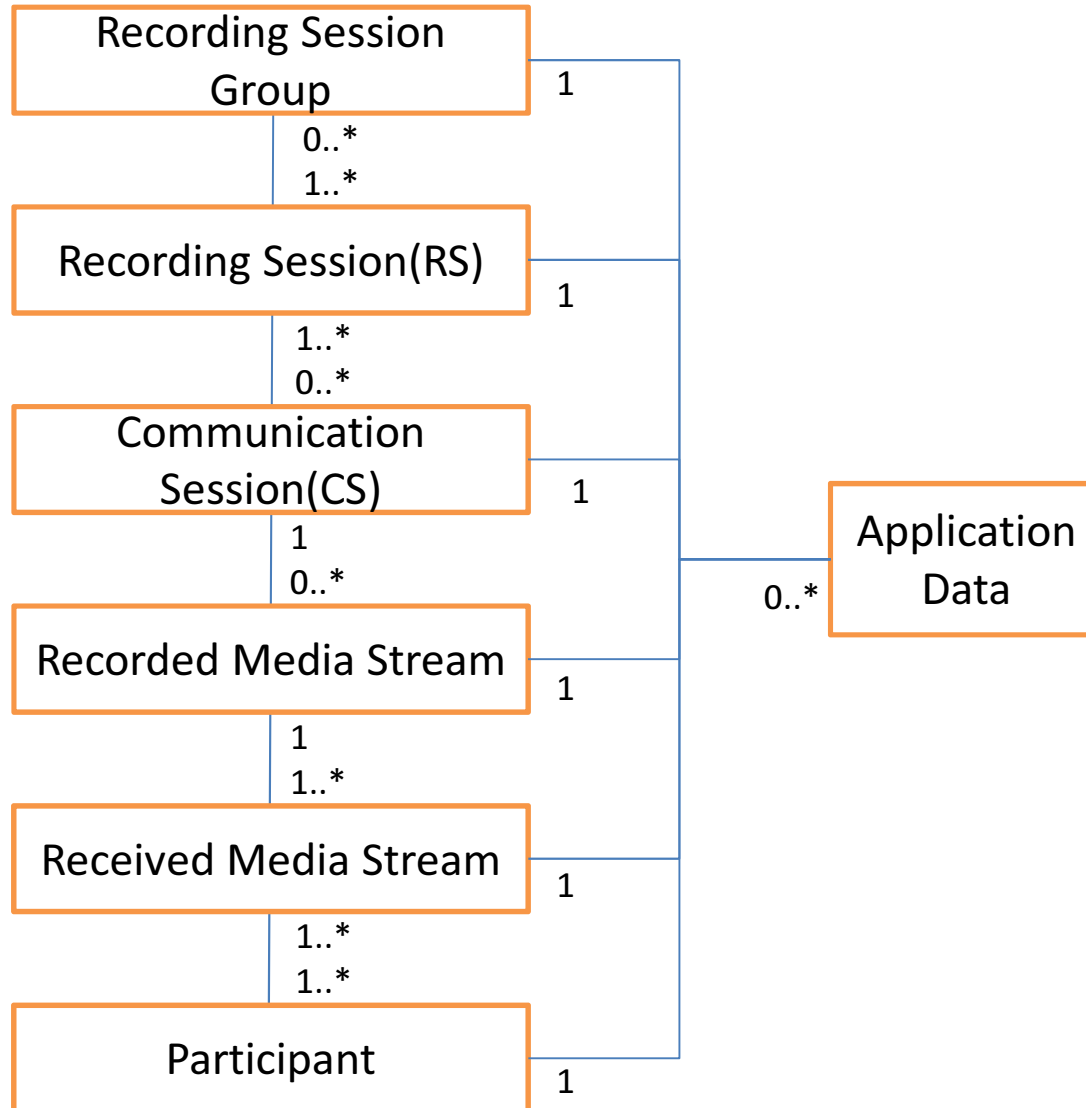
on behalf of the team

Team: Paul Kyzivat, Ram Mohan R, R Parthasarathi
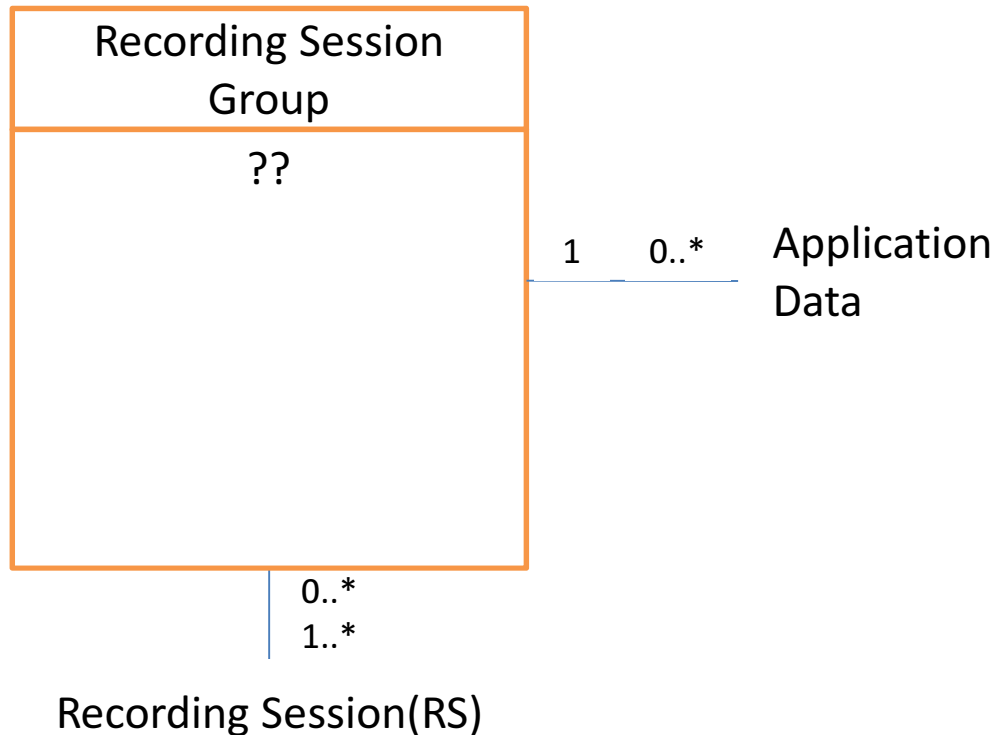
Agenda

- Recording Metadata model for SRS
- Open Issues
- Next Steps
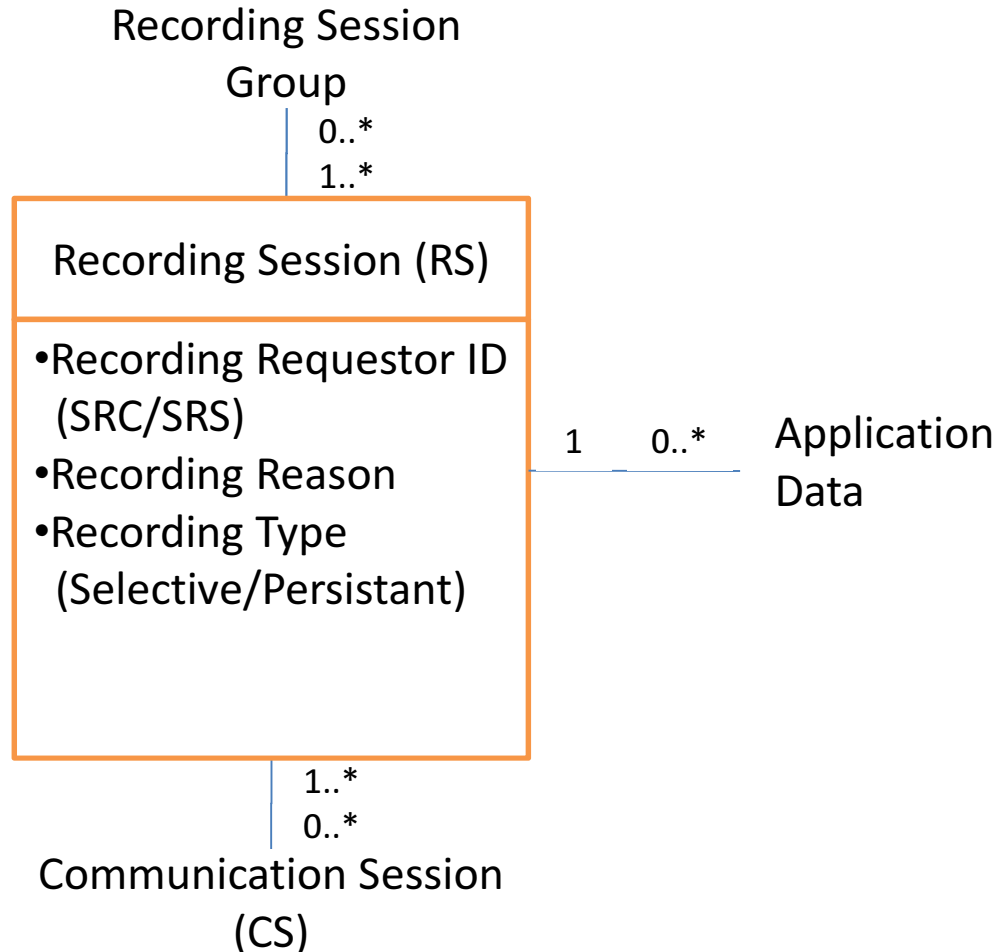
Metadata Model

Recording Session Group

1

0..*
1..*

Recording Session(RS)

1

1..*
0..*

Communication Session(CS)

1

1
0..*

Application Data

0..*

Recorded Media Stream

1

1
1..*

Received Media Stream

1

1..*
1..*

Participant

1

3

Metadata Model: Recording Session Group

```
┌─────────────────────────┐
│   Recording Session     │
│        Group            │
├─────────────────────────┤
│          ??             │
│                     1  0..*  Application
│                              Data
│                         │
└─────────────────────────┘
         0..*
         1..*

   Recording Session(RS)
```
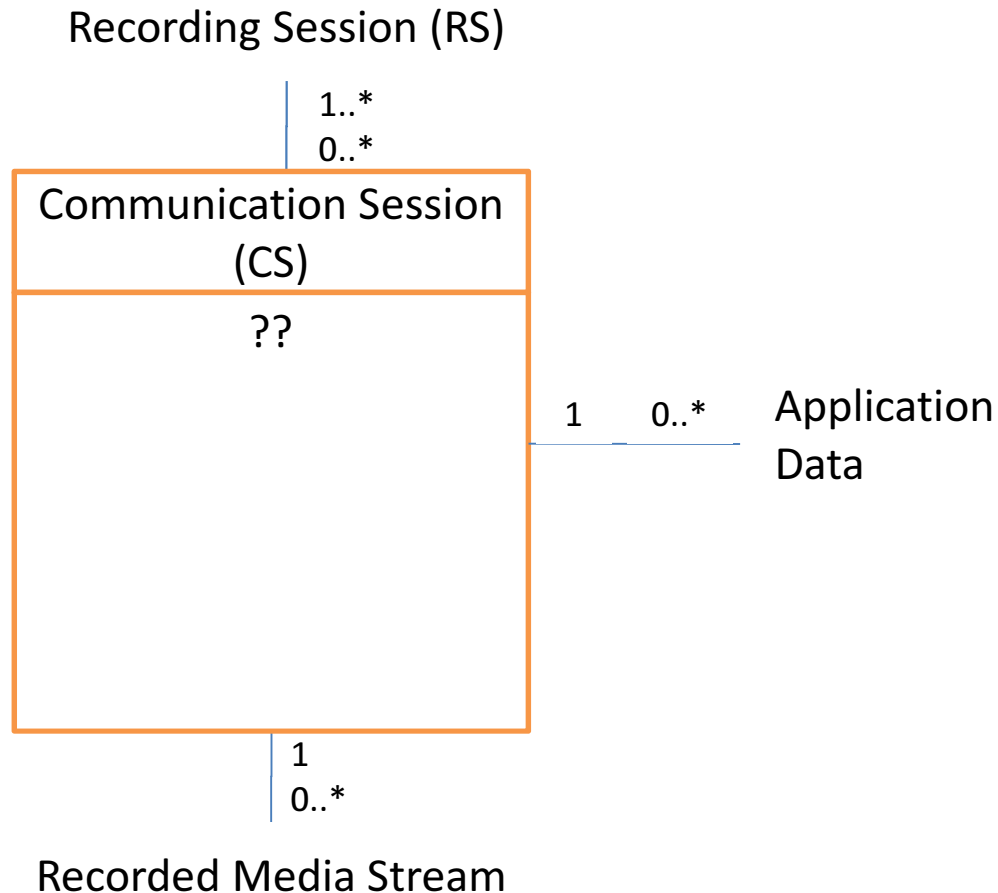
- These are optional
- Used when multiple RS are related
  - (e.g. recording initiated by multiple participants.)
- Do we need them?
- What attributes?

type/usage/reason?

Metadata Model: Recording Session

Recording Session
Group
0..*
1..*

Recording Session (RS)

•Recording Requestor ID
(SRC/SRS)
•Recording Reason
•Recording Type
(Selective/Persistant)

1   0..*   Application
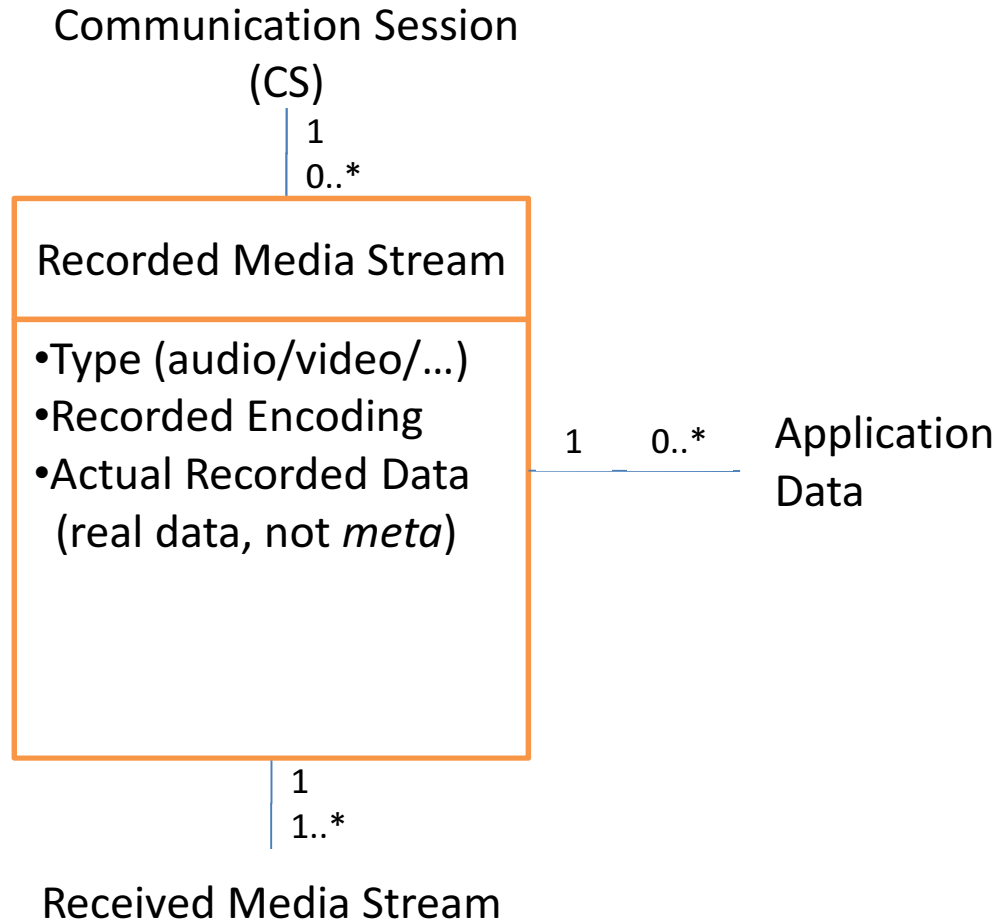Data

1..*
0..*
Communication Session
(CS)

- 0 or more CS per RS
  - 0 for persistent recording where there has been no CS
- What other attributes are needed?

Metadata Model: Communication Session

Recording Session (RS)

```
           1..*
           0..*
┌──────────────────────┐
│ Communication Session│
│        (CS)          │
├──────────────────────┤
│         ??           │
│                      │── 1    0..*  Application
│                      │              Data
│                      │
│                      │
│                      │
└──────────────────────┘
           1
           0..*

Recorded Media Stream
```

- 1 or more RS per CS
  - Recording of same CS initiated by multiple SRC

- 0 or more Recorded Media Stream per CS
  - Different media
  - Starting/stopping media?

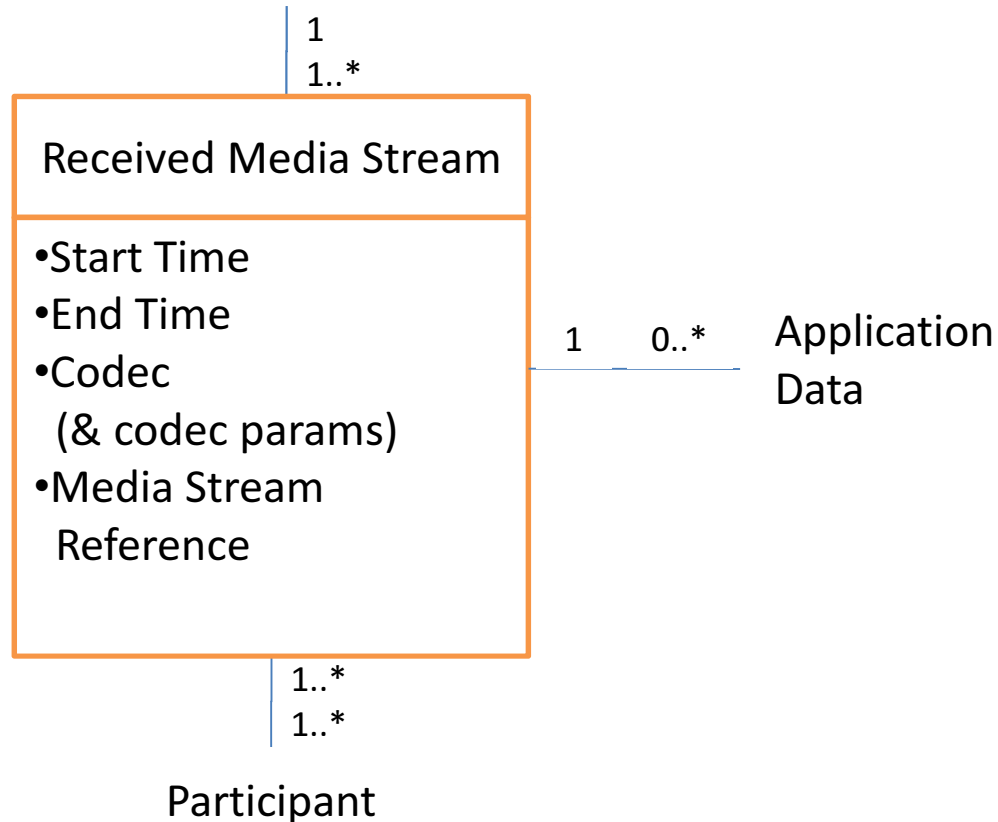- What attributes? (This needs attention)

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Metadata Model: Recorded Media Stream

Communication Session
(CS)

| 1
| 0..*

Recorded Media Stream

- Type (audio/video/…)
- Recorded Encoding
- Actual Recorded Data
  (real data, not *meta*)

1   0..*   Application
Data

| 1
| 1..*

Received Media Stream

- 1 or more CS per Recorded Media Stream
  - Does >1 make sense?
- 1 or more Received MS per Recorded MS
  - Historical tracking of data sources otherwise lost in the mix
- Permits the recorded data to be encoded differently from the received media
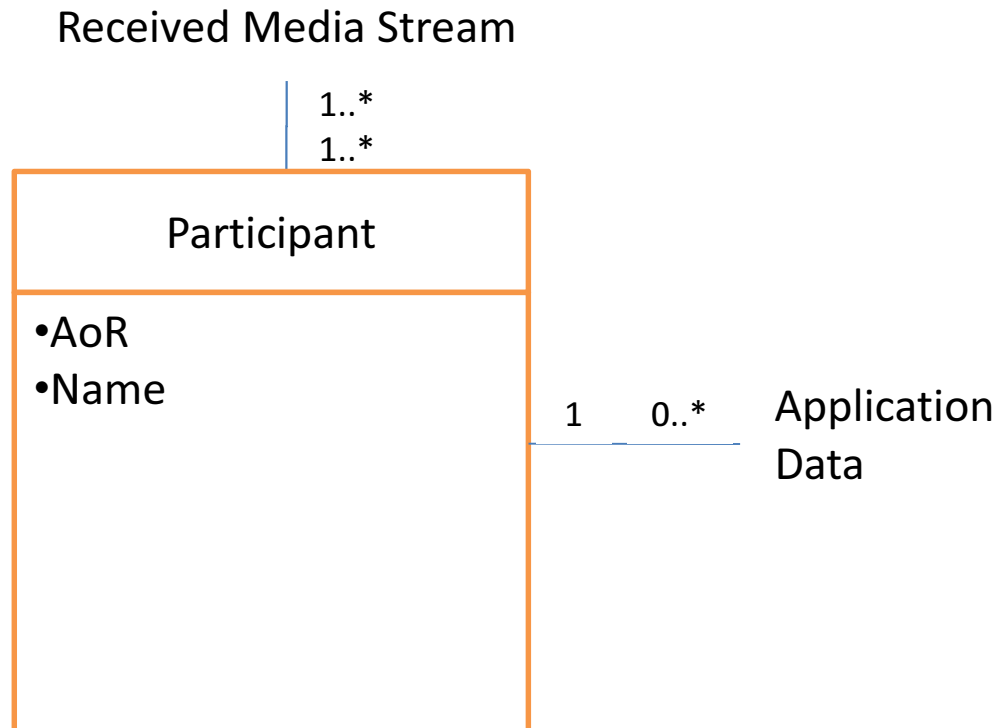- This *may* be enough

Metadata Model: Received Media Stream

Recorded Media Stream

1
1..*

Received Media Stream

- Start Time
- End Time
- Codec
  (& codec params)
- Media Stream
  Reference

1   0..*   Application
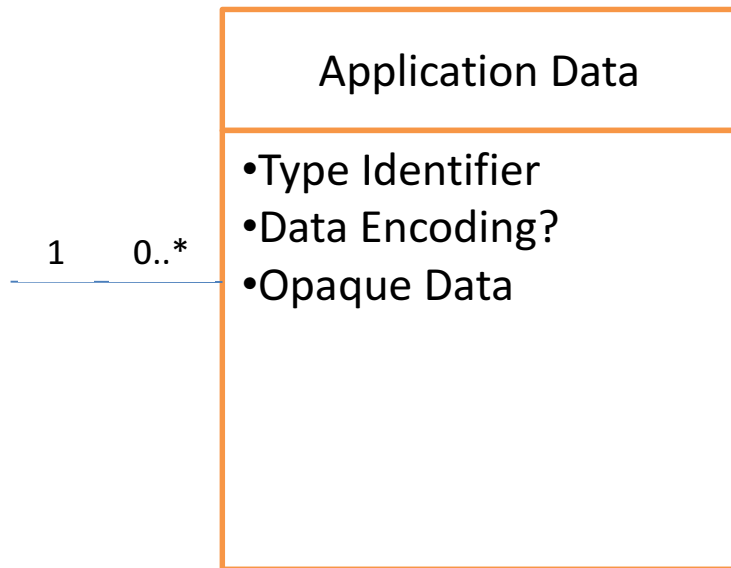   Data

1..*
1..*

Participant

- 1 or more Participants
  - When mixing done before delivery to SRS (e.g. conf focus)
- Do we need the codec info, distinct from the recorded encoding?
- How do we represent codec params (SDP snipits?)
- Media stream reference only needed while recording

Metadata Model: Participant

Received Media Stream

1..*
1..*

```
┌─────────────────────────┐
│       Participant        │
├─────────────────────────┤
│ •AoR                     │
│ •Name                    │
│                          │
│                          │
│                          │
│                          │
│                          │
└─────────────────────────┘
```

1   0..*   Application Data

- 1 or more Received Media Streams per Participant
  – Same participant provides multiple streams (e.g. audio & video)

- Is there other data we could plausibly get about a participant?

Metadata Model: Application Data

Application Data

1   0..*

•Type Identifier
•Data Encoding?
•Opaque Data

- Allowing any number of application data objects attached to any of the others.
  - Any we can eliminate?

- We need a type identifier.
  - What namespace?
  - What assignment rules?

- Do we need a data encoding type separate from type id?

- How do we represent / transmit the opaque data?
  - Text/binary