SIPREC
Recording Metadata Model for SRS (draft-ram-siprec-metadata-02)

Dec 16, 2010 Virtual Interim meeting

Ram Mohan R

On behalf of the team

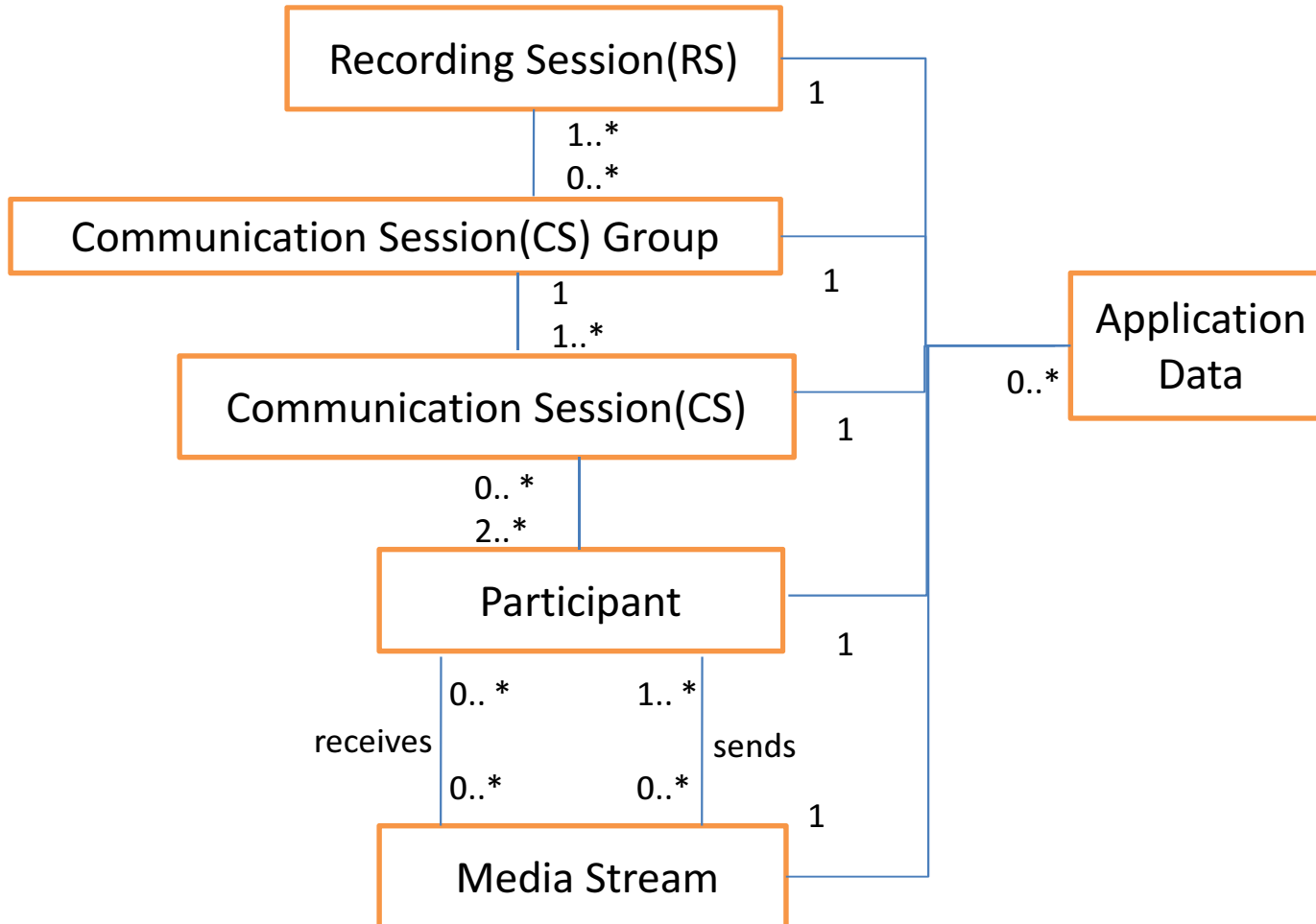Team: Paul Kyzivat, Ram Mohan R, R Parthasarathi

Agenda

- Changes in draft-ram-siprec-metadata from the previous version

- Discuss Open items in Metadata Model

- Go over object instances in draft-ram-siprec-metadata (if time permits)
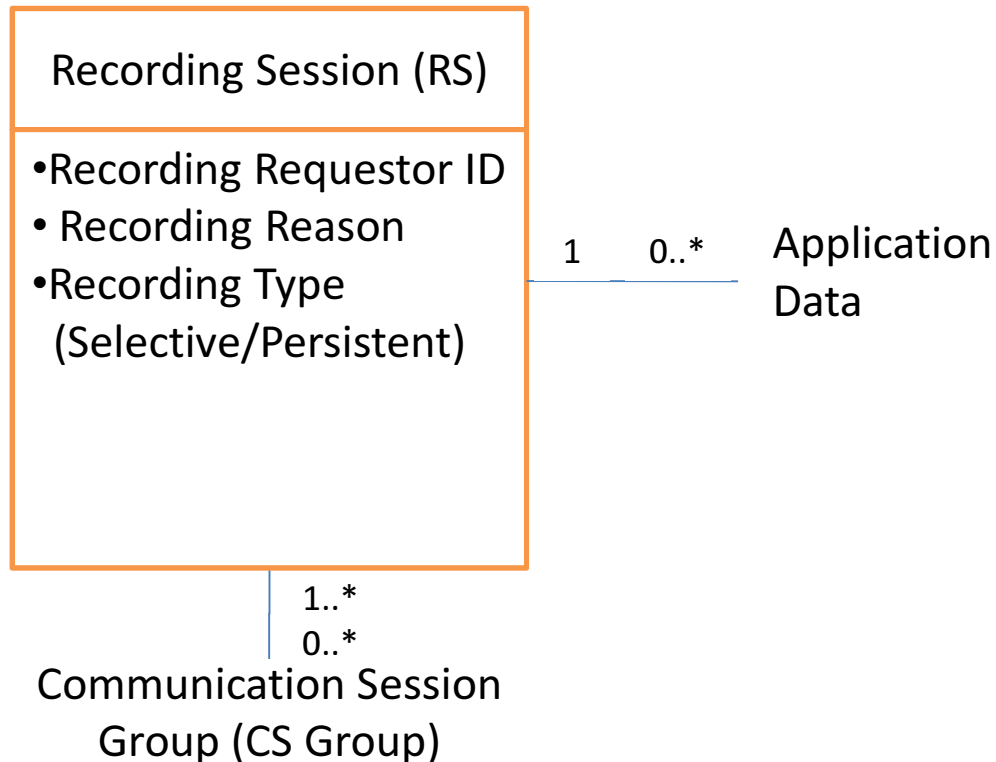
- Next Steps

Changes from Previous version

- Updated draft with the revised Metadata model (which was presented in IETF 79)

- Modified the sections of Metadata elements to reflect the discussions so far.

- Added Metadata model object instances for basic SIPREC uses cases

Metadata Model

Metadata Model: Recording Session
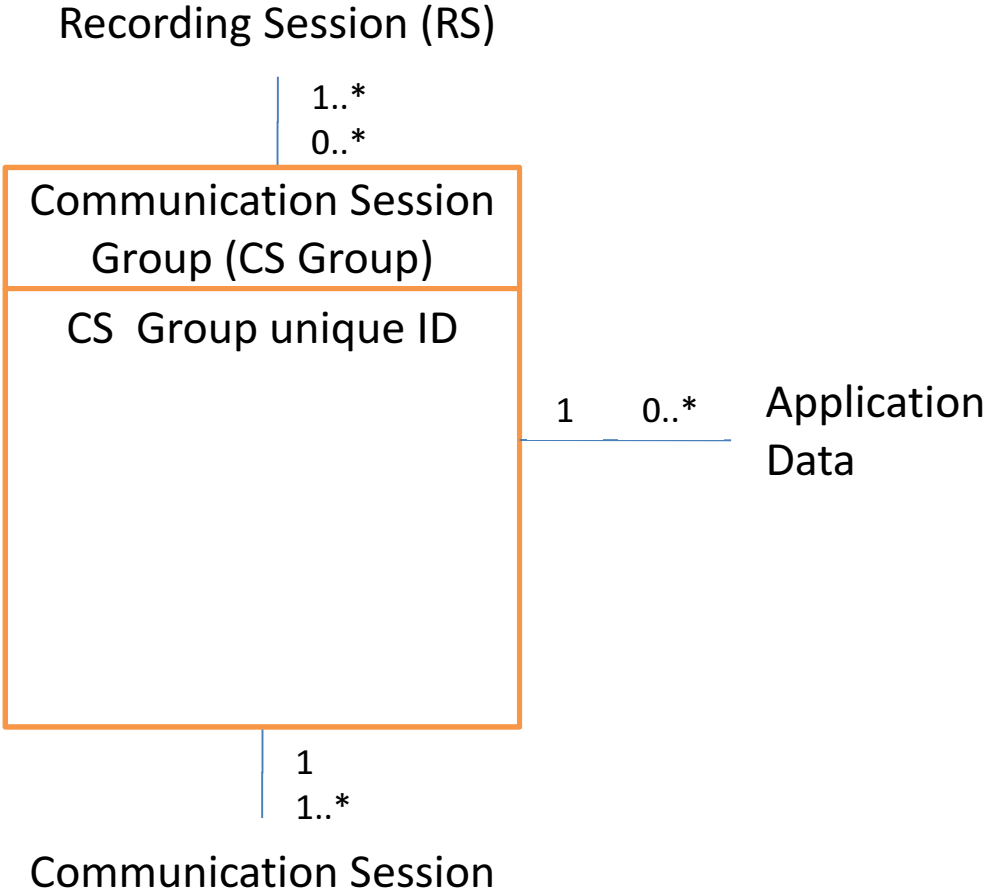
Recording Session (RS)

- Recording Requestor ID
- Recording Reason
- Recording Type (Selective/Persistent)

1   0..*   Application Data

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

- Open Items
  - What other attributes are needed?

Metadata Model: Communication Session Group

Recording Session (RS)

1..*
0..*

Communication Session
Group (CS Group)

CS Group unique ID

1   0..*   Application
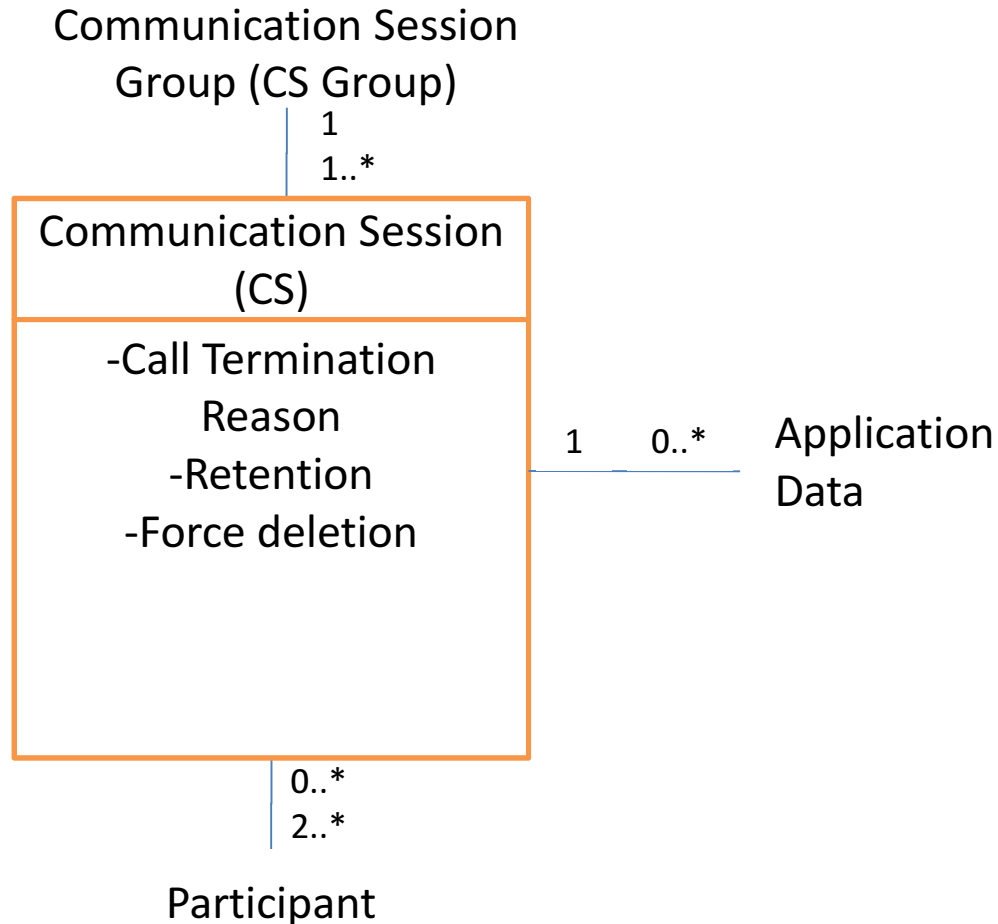Data

1
1..*

Communication Session

- Conclusions after discussions in SIPREC mailer
  - SRC SHALL send CS group unique ID in the metadata to SRS.
  - The mechanism by which SRC SHALL create the id and ensure its uniqueness is outside scope of SIPREC
  - Further the rules by which different CSs are grouped are also outside scope of SIPREC

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Metadata Model: Communication Session Group

- Open Item
  - The current model allows a CS to be associated with only one CS-Group. Do we want to allow CSs to be concurrently associated (different views) with multiple CS-Groups in the model ? (By De Villers)
  - For e.g. we may need different groupings (from the perspective of customer, from the perspective of Agent or supervisor). Storing these different views(groupings) may be useful at SRS as there may be applications that may query for one view(a customer's view or agents view or supervisors view).If we need to accommodate this kind of thing in the model, a CS has to be associated with multiple CS-Groups simultaneously.

Metadata Model: Communication Session

Communication Session
Group (CS Group)

1
1..*

Communication Session
(CS)

-Call Termination
Reason
-Retention
-Force deletion

1   0..*   Application
Data

0..*
2..*

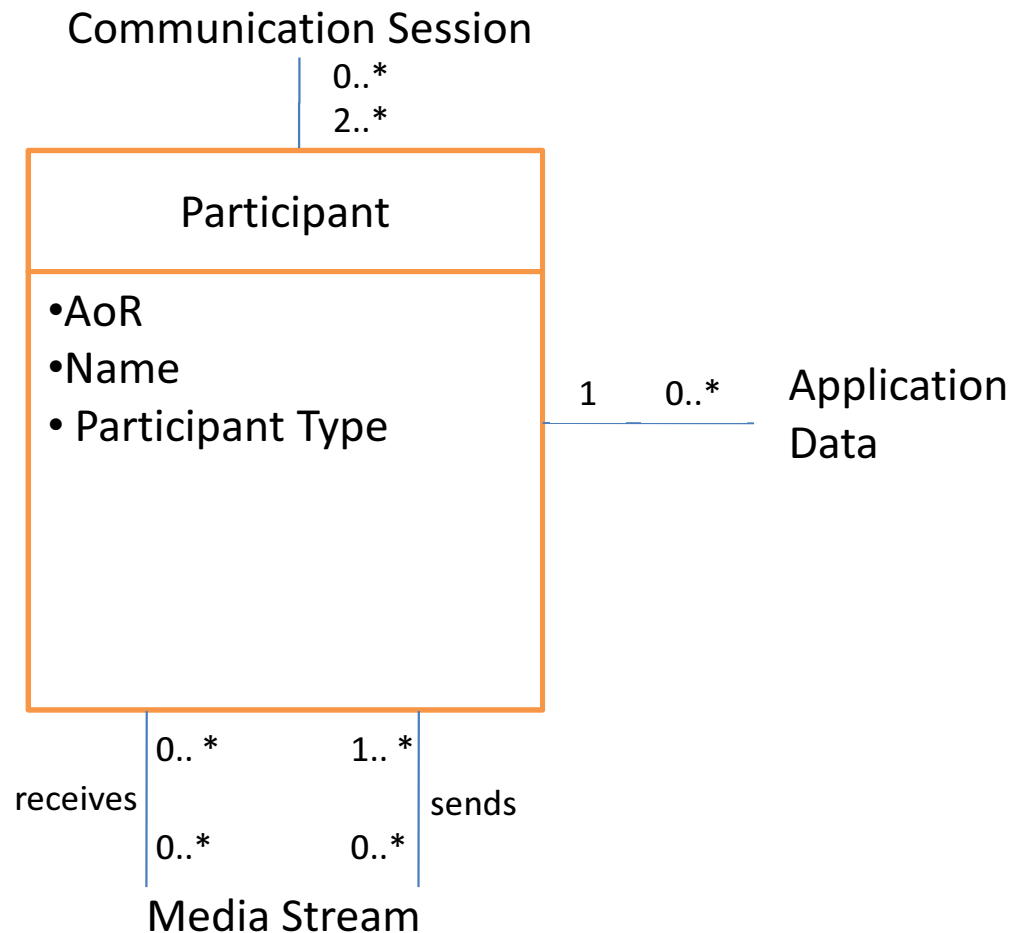Participant

- Open Items: What
  other attributes
  needed ? (some
  attributes received in
  mailer)
  – Direction/initiator

Metadata Model: Participant

Communication Session

0..*

2..*

┌─────────────────────────────┐
│   Participant   │
├─────────────────────────────┤
│ •AoR   │
│ •Name   │   1   0..*   Application
│ • Participant Type   │────────────────────── Data
│   │
│   │
│   │
└─────────────────────────────┘

0.. *   1.. *

receives   sends
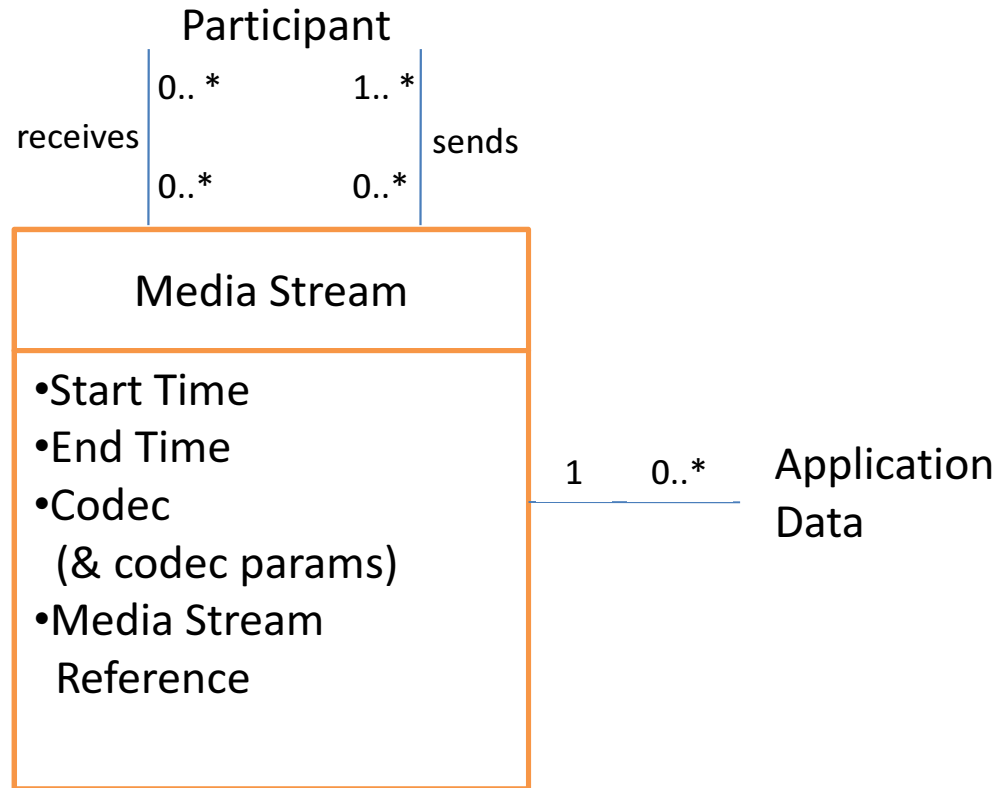
0..*   0..*

Media Stream

- Attributes discussed during IETF 79
  - AoR (SIP/SIPS/TEL URI)
  - Name (DN number of User name)
  - Type (can have values as "internal" or "external" or "don't know ")

Metadata Model: Participant

- Open Items. What other attributes ? Some suggested (by Leon)are:
  - End point information: ip/port, device id (MAC address), DN (used for the call, in case of multiline).
  - Device type: external, station, IVR, routing point, QUEUE, Gateway, MCU, Operator, etc
  - Participant Role: caller, called, added, last_redirecting, redirecting, conferencing, queing, redirected
  - AgentId, OSLogin
- Should these be part of App data attached to Participant block in the model or should this be in the basic model ?

Metadata Model: Media Stream

Participant

0.. *   1.. *

receives   sends

0..*   0..*

Media Stream

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

1   0..*   Application
                     Data

- Attributes
  - Start Time (Represents Media Start time at SRC)
  - End Time (Media end Time).

  Are these needed ?

  - Media stream reference (In implementations this can reference to m-line)
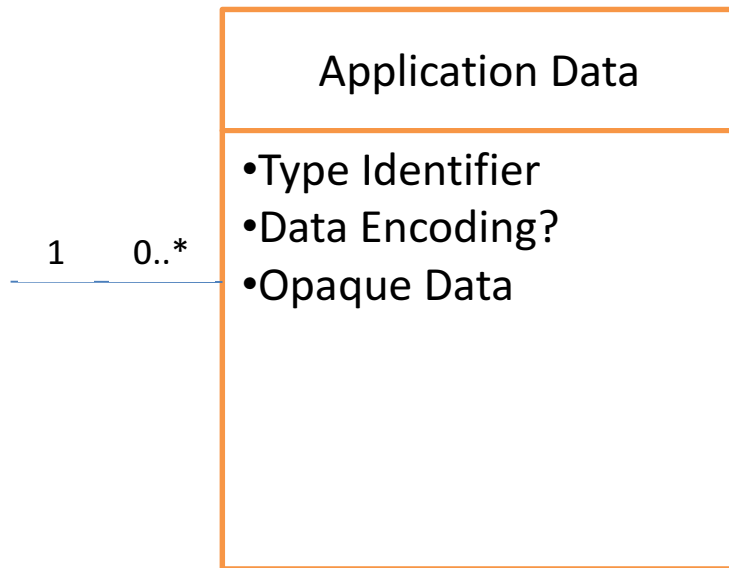- What other attributes are needed ?

Metadata Model: Media Stream

Open items:

- Is it required to model media streams that are not recorded[e.g. SRC offered certain media types but SRS choose to accept only subset of them] ? If yes How do we model them ?

- We discussed in IETF 79 (during req draft presentation) about SRC sending the information regarding privacy/access of media. How should we represent the Information that the SRC has regarding privacy/access of information(media) being recorded ? Should this be attributes of media stream or part of app data?

Metadata Model: Application Data

```
+-------------------------------+
|      Application Data         |
+-------------------------------+
| •Type Identifier              |
| •Data Encoding?               |
| •Opaque Data                  |
|                               |
|                               |
+-------------------------------+
```

1   0..*

- Allowing any number of application data objects attached to any of the others.
  - Can we eliminate for any of the blocks ?

- 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

Next steps

- Request for review of draft-ram-siprec-metadata-02 in the mailer

- Adopt metadata model draft as WG item ?

- Publish metadata format from SRC to SRS (it will be a separate draft)

- Add more Use cases to the Metadata Model draft (object instances)