Research Video Prototype
Piecemaker 2.5 Data model

parent →

*   0,1

Group
id
fields: {…}

1   ← group   *

Event
id
utc_timestamp
duration
event_type
fields: {…}

Logical Model
(ER)
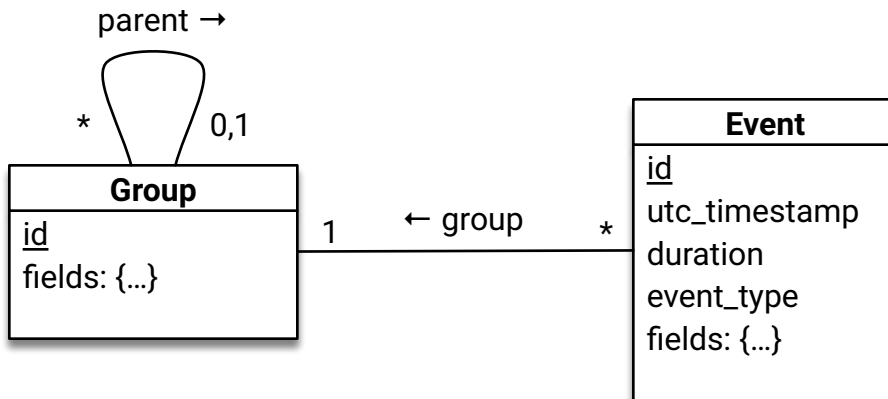
Physical Model
(document based)

```
{
  _id: "grp/123",
  type: "group",
  parent: "grp/456",
  fields: {
    key1: 123,
    key2: "thing"
  }
}
```

```
{
  _id: "grp/123/evt/456",
  type: "event",

  utc_timestamp: "",
  duration: "",
  event_type: "",
  fields: {
    key1: 123,
    key2: "thing"
  }
}
```

```
{
  _id: "evt/456",
  type: "event",
  group: "grp/123",

  utc_timestamp: "",
  duration: "",
  event_type: "",
  fields: {
    key1: 123,
    key2: "thing"
  }
}
```

• event as 'value object'
• query by id range (docURI)
• no direct change of group (new doc needed)
• slightly higher update cost (additional delete request)

• event as mutable object
• query by secondary index
• direct change of data (incl. group)