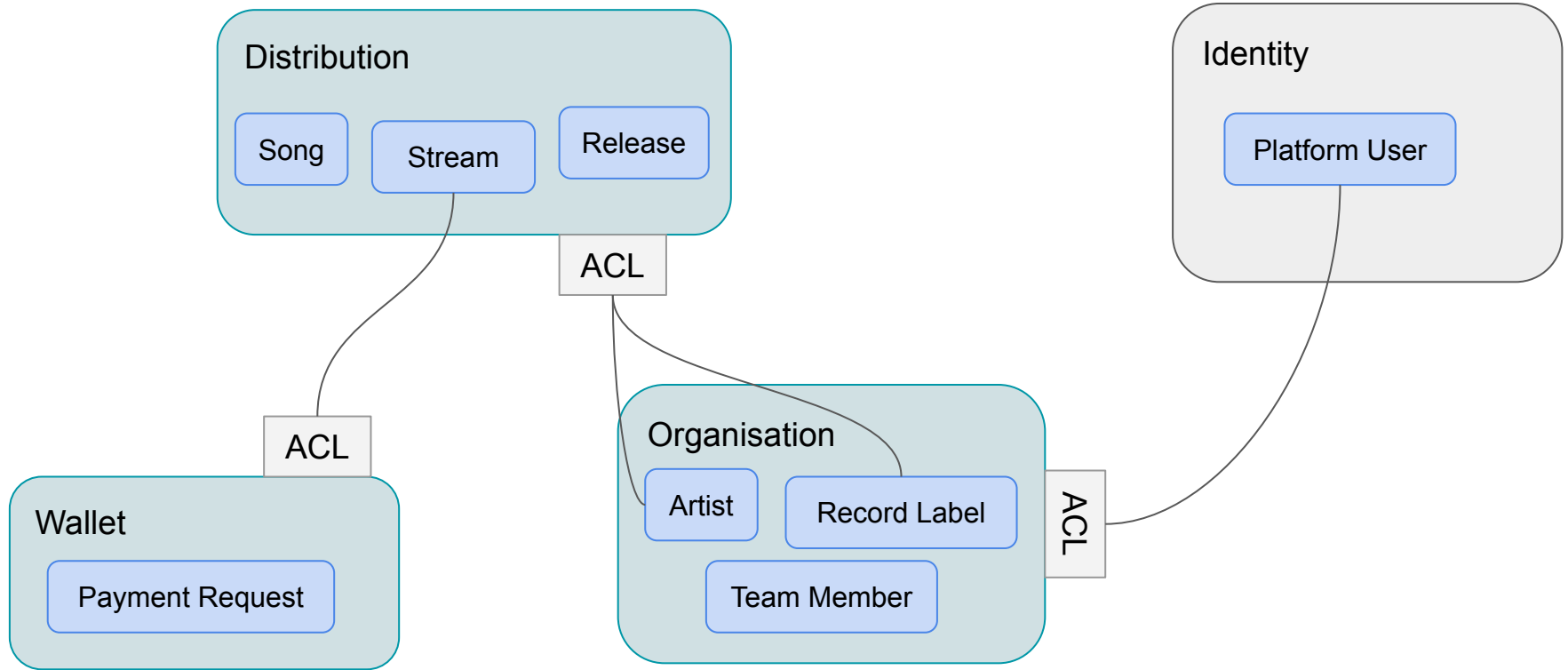


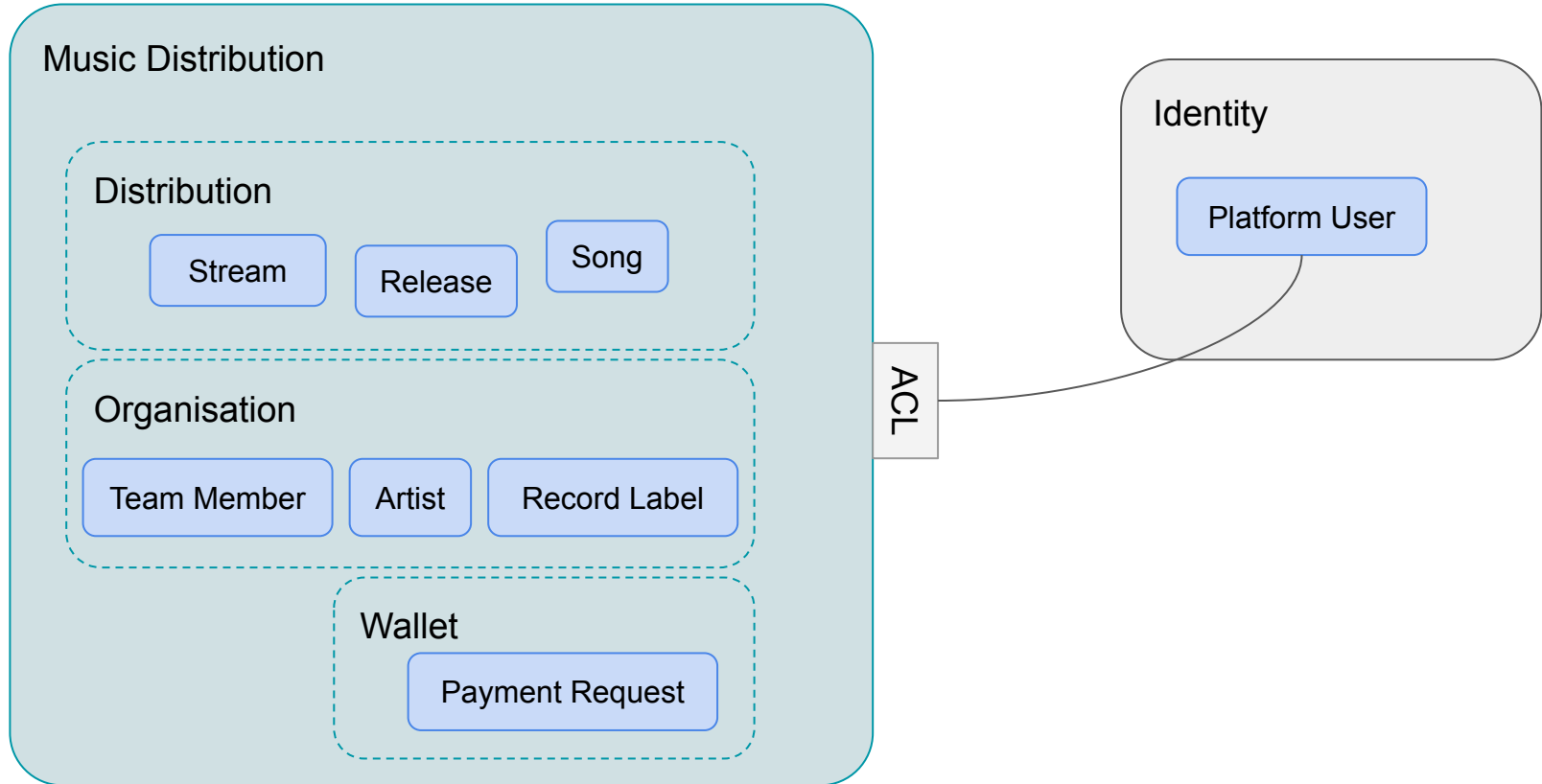
Music Distribution

for a streaming platform

Context Mapping - Potential



Context Mapping - proposal for MVP



Initial Design Flaws - state inconsistency

```
enum ReleaseState:
```

```
  case Created
```

```
  case Proposed
```

```
  case Approved
```

```
  case Withdrawn
```

```
case class Release(  
  ...
```

```
  date: Option[LocalDate],
```

```
  state: ReleaseState
```

```
)
```

```
// date: None, state: Approved
```

```
enum ReleaseState:
```

```
  case Created
```

```
  case Proposed(date: LocalDate)
```

```
  case Approved(date: LocalDate)
```

```
  case Withdrawn
```

```
case class Release(  
  ...
```

```
  state: ReleaseState
```

```
)
```

Initial Design Flaws - streams for monetization

Using timestamp is not the best idea, because:

- Late delivery of data from streaming platform
- Race conditions while saving to persistence
- Other option: mark all as counted - inefficient

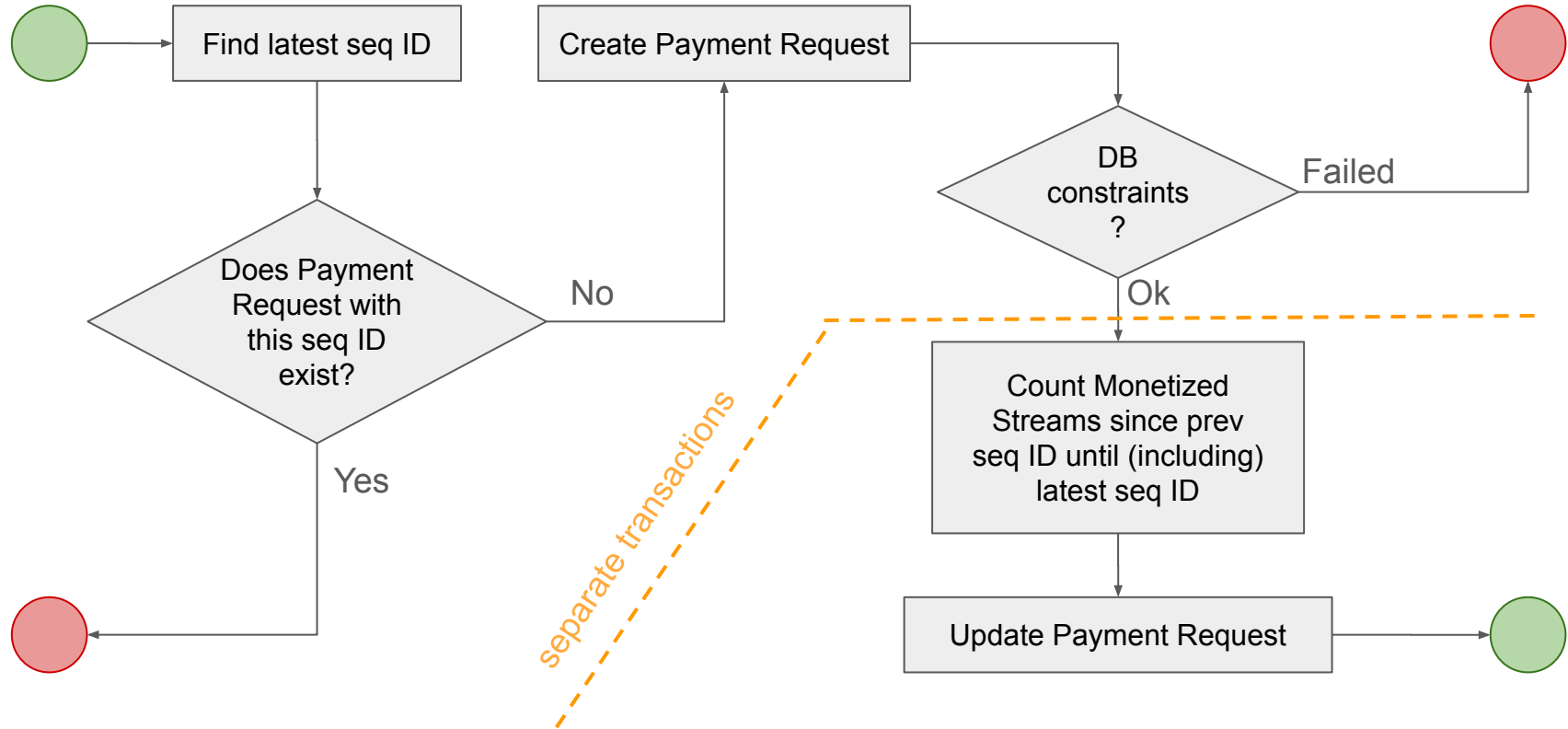
A solution:

Sequence Identifier

Implementation design - Distribution for Streaming

- Use events
- Some scheduler checks everyday for approved releases with current date
- Scheduler triggers update **Approved -> Distributed**
- This update is propagated as an event by
 - CDC - triggered by update on db;
 - or, using transactional outbox
 - or, pushed from code (although simple and good for MVP, it's error prone)
- One issue I see here is that we may need more release states:
 - **Approved**
 - **SetForDistribution**
 - **Distributed**

Implementation design - Payment Request



Next steps

- API - possibly simple REST-ish one (unblocks demoing)
- Persistence - allows checking scalability of the model
- Mock Streaming Provider integration, allows to develop further:
 - Distributing Release
 - Withdrawing Release
 - Filing Payment Requests
 - Reports
- Identity service - for all fings Auth*
- ...and many more