Supporting Pub/Sub over NDN Sync

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Need for a high level API

- Sync is the transport service of NDN
  - Provides namespace synchronization
- Sync needs sequence numbers for naming data
  - Resilient transport identifiers
  - State Vector Sync
- Pub/Sub is a familiar communication pattern

Have: **`/alice/group/5`**
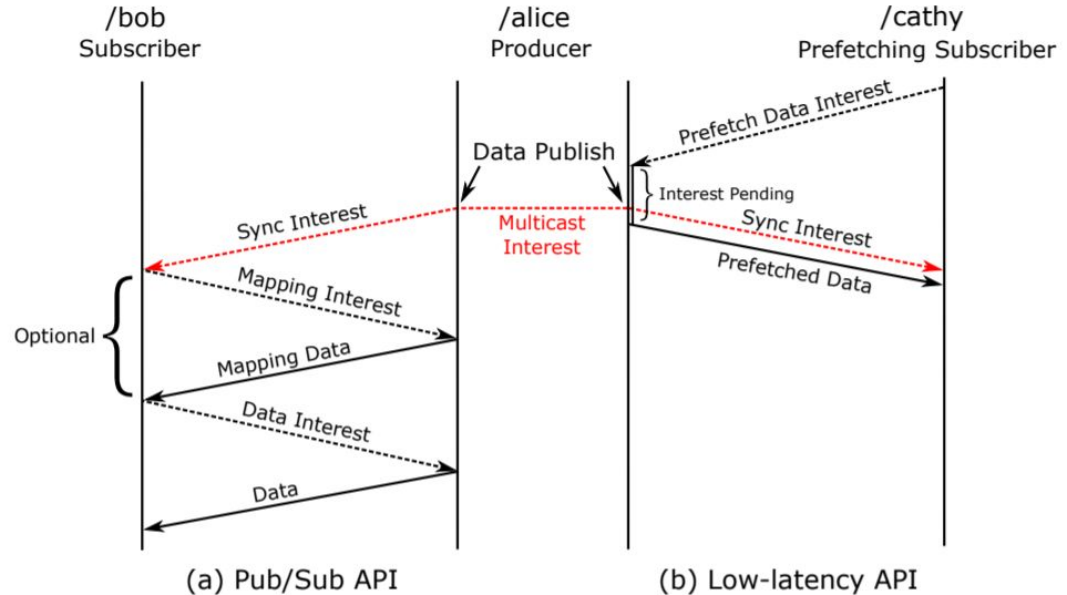Need: **`/alice/app/message`**

Data distribution over SVS

- Encapsulation - fetch using sequence numbers
- Segment large objects semantically
- Sign and enable enforcing trust policies
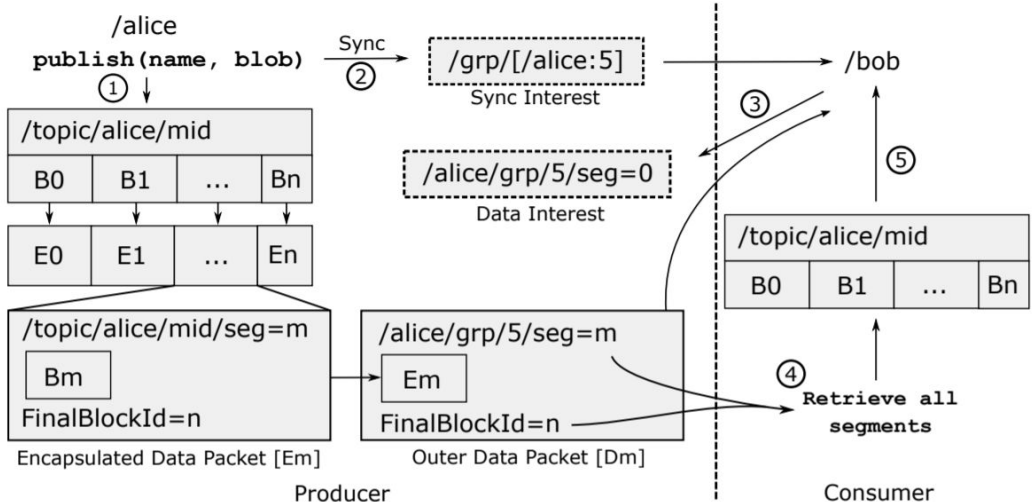
Pub/Sub API

- Query name of encapsulated packets after learning about production
- Optimize
- Reduce Latency

(a) Pub/Sub API   (b) Low-latency API

Thank You!