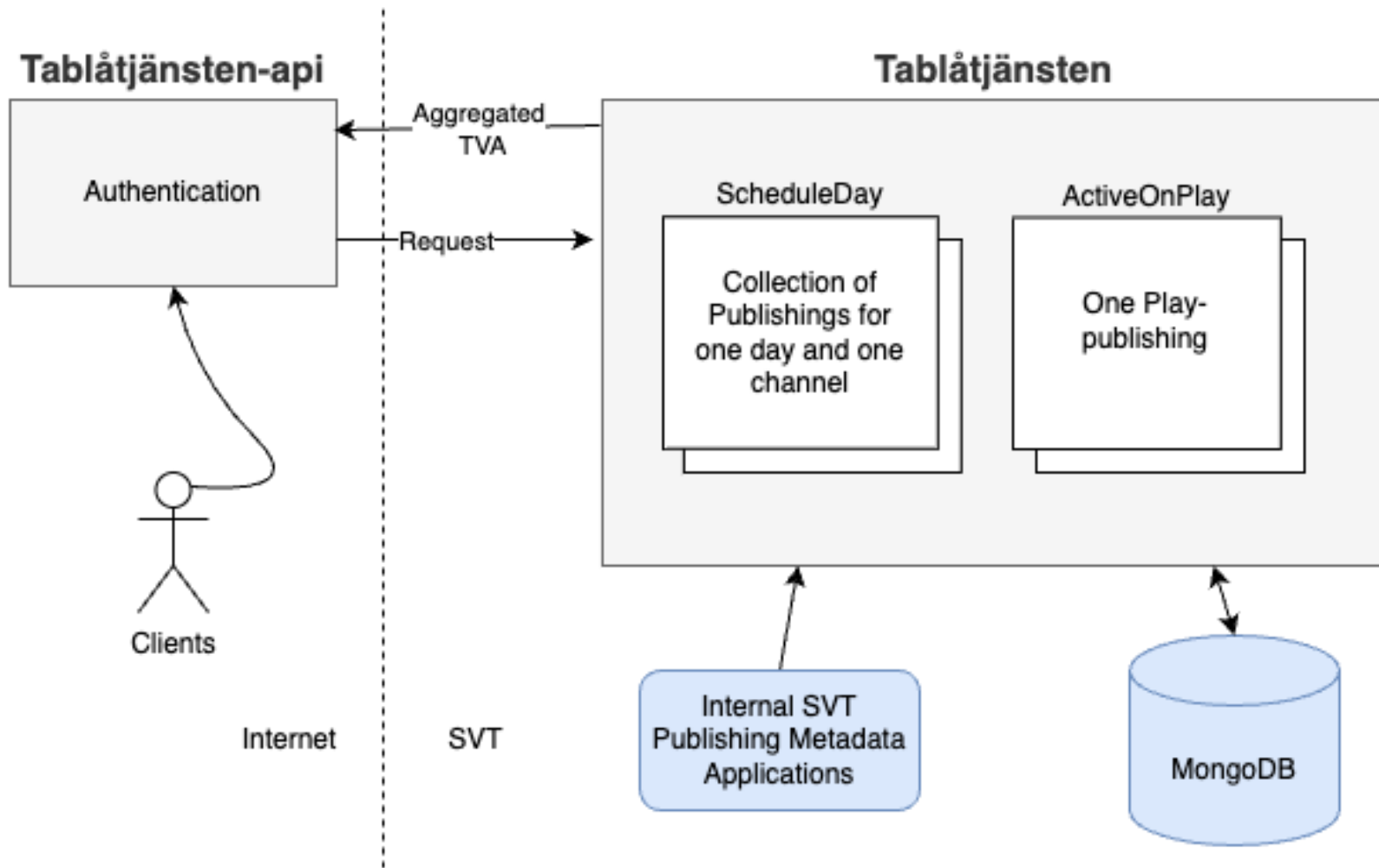


SVT TV Anytime

The Tablåtjänsten System

Stockholm 2-3 May 2024

Architecture/Design



Main entities in Tablåttjänsten

ScheduleDay - *Collection of Publishings for one day and one channel*

ActiveOnPlay - *One Play-publishing*

- Main differences and reasons for having two separate entities
- Channel Play vs Play in ActiveOnPlay
- Stored in MongoDB as *tva:ProgramDescription* structure in json
- Handled as java objects in code that can be rendered both as json or xml
- On fetch we aggregate **many** ProgramDescriptions to exactly **one** ProgramDescription in a *tva:TVAMain* document

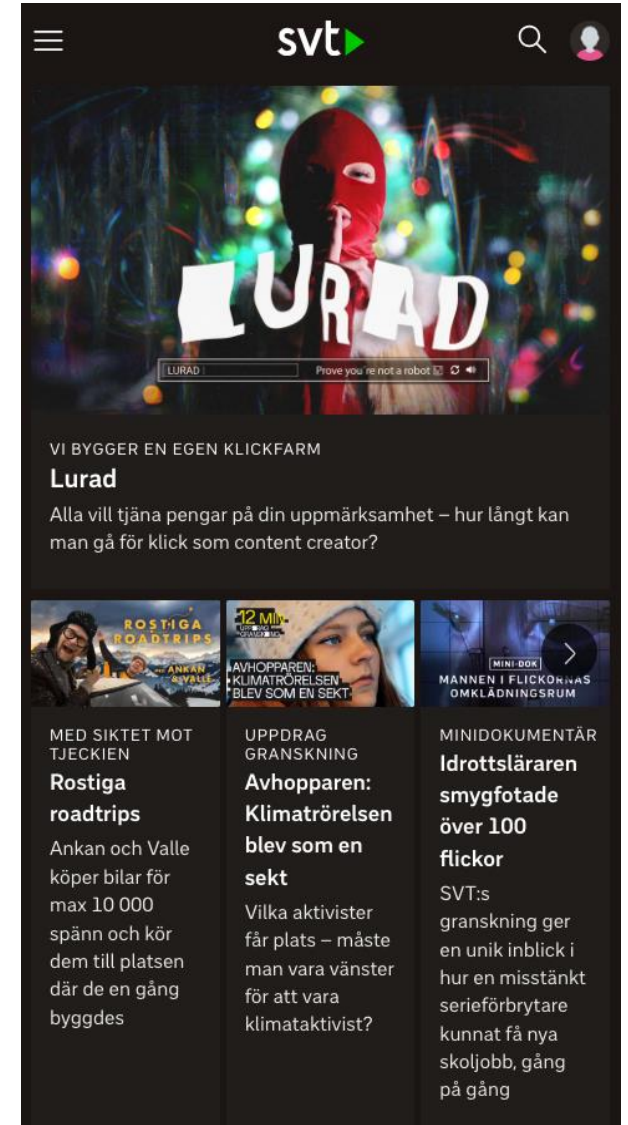
ScheduleDay

- Each schedule day is stored separately as a TV-Anytime ProgramDescription with all it's programs, publishings and related metadata
- BC channels and upcoming PLAY publishings
- Convenient endpoint */play/premieres*
- Related OnDemand content could be present if published on Play (not currently in use)



ActiveOnPlay

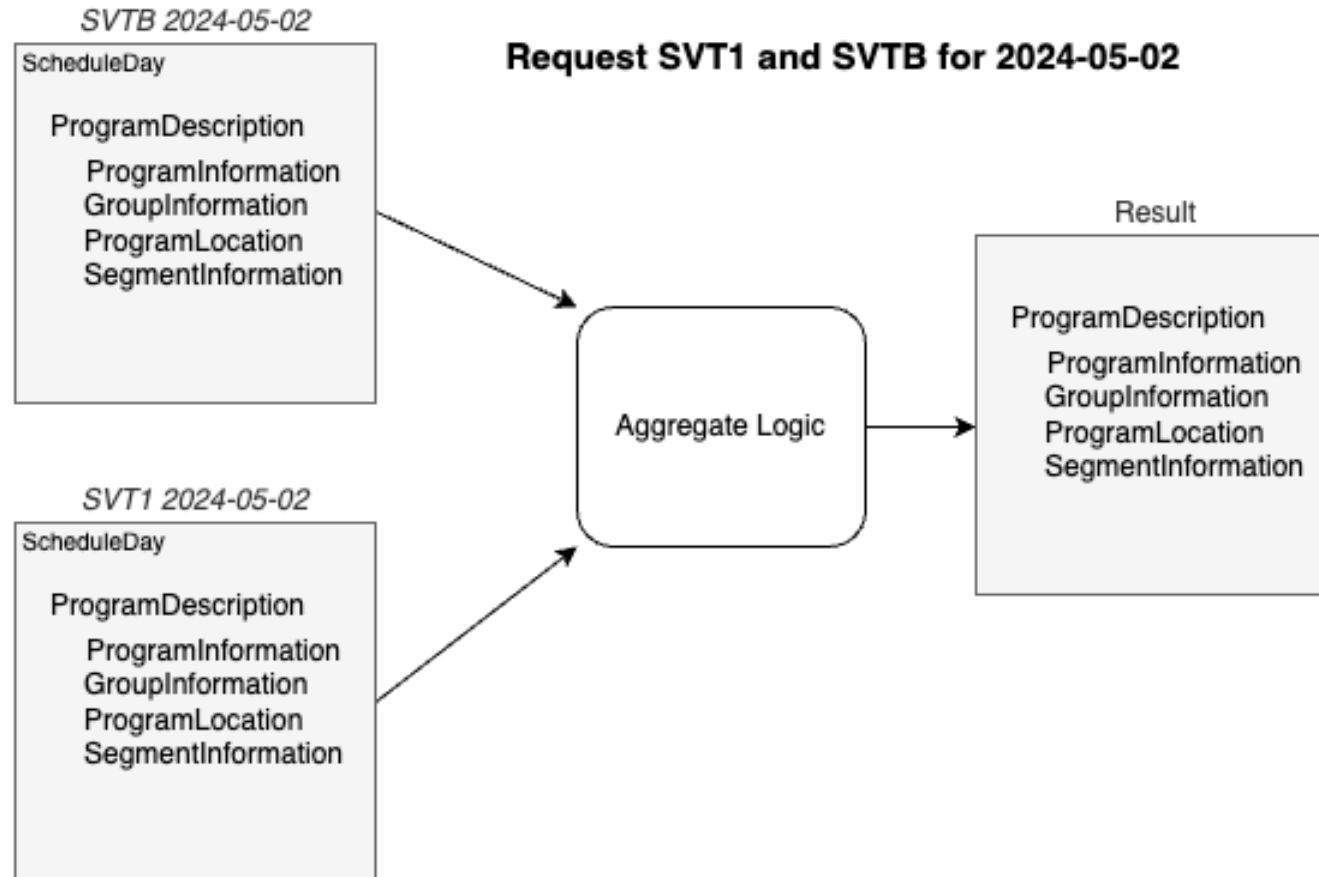
- Each Play publishing is stored separately as a TV-Anytime ProgramDescription
- Only active Play publishings, not upcoming
- Includes keywords on programs - used for filtering content



The screenshot shows the SVT mobile app interface. At the top, there is a navigation bar with the SVT logo, a search icon, and a user profile icon. The main content area features a large banner for the program 'LURAD' with a red balaclava character. Below the banner, there is a section titled 'VI BYGGER EN EGEN KLICKFARM' and 'Lurad' with a subtitle 'Alla vill tjäna pengar på din uppmärksamhet – hur långt kan man gå för klick som content creator?'. Below this, there is a grid of three content cards:

- ROSTIGA ROADTRIPS**
MED SIKTET MOT TJECKIEN
Rostiga roadtrips
Ankan och Valle köper bilar för max 10 000 spänn och kör dem till platsen där de en gång byggdes
- 12 MILJONER**
AVHOPPAREN: KLIMATRÖRELSEN BLEV SOM EN SEKT
UPPDRAG GRANSKNING
Avhopparen: Klimatrörelsen blev som en sekt
Vilka aktivister får plats – måste man vara vänster för att vara klimataktivist?
- MINIDOKUMENTÄR**
Idrottsläraren smygfotoade över 100 flickor
SVT:s granskning ger en unik inblick i hur en misstänkt serieförbrytare kunnat få nya skoljobb, gång på gång

Aggregate by example



Handle data volumes and storage

- Around 30 000 active Play publishings at any given moment
- Fetch all gives 85 MB data
- Solution: separate entities
- Solution: filter...



Filter implementation

- Premieres – hardcoded endpoint to retrieve upcoming PLAY publishings that has premiere during the next 30 days. Excludes news. Includes movies.
- Keywords – same as categories on SVT Play for example: Underhållning, Reality, Resor.

```
BasicDescription.keyword:[  
  {"lang":"swe","text":"resor|Resor"},  
  {"lang":"swe","text":"fakta|Fakta"}  
]
```

`/play?filters=resor&filters=reality&filter-operator=OR`

`/play?filters=resor&filters=underhallning&filter-operator=AND`



That's all folks!

How we keep the data up to date

- Scheduler job triggers fetch of next day and deletes the oldest
- Keeps -60 to + 60 days in cache
- Listen to kafka queue for changes in the current scheduleDay metadata
- Scheduler job fetch and refresh all active on Play content metadata every 15 minutes