



# Service template for video storage service

TEMPLATE ID: video\_storage

VERSION: 0.1

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Approval Date	TBD

## Purpose of the document

The purpose of this service template specifications document is to provide a technology-agnostic overview of the *video storage service* template. It describes a well-defined baseline of the service by clearly identifying the service version.

The document describes the shared functional aspects of any service instance implementing the *media storage* template, the operational and business context of such services, possible requirements, relations to other services and validation aspects.

## Intended audience

ATLAS software vendors, participants, who want to provide an ATLAS *video storage* service instance, or who wish to consume ATLAS *video storage* service instances.

## Functional overview

Services implementing the *video storage service* template will provide a way to list and download recorded video data recordings.

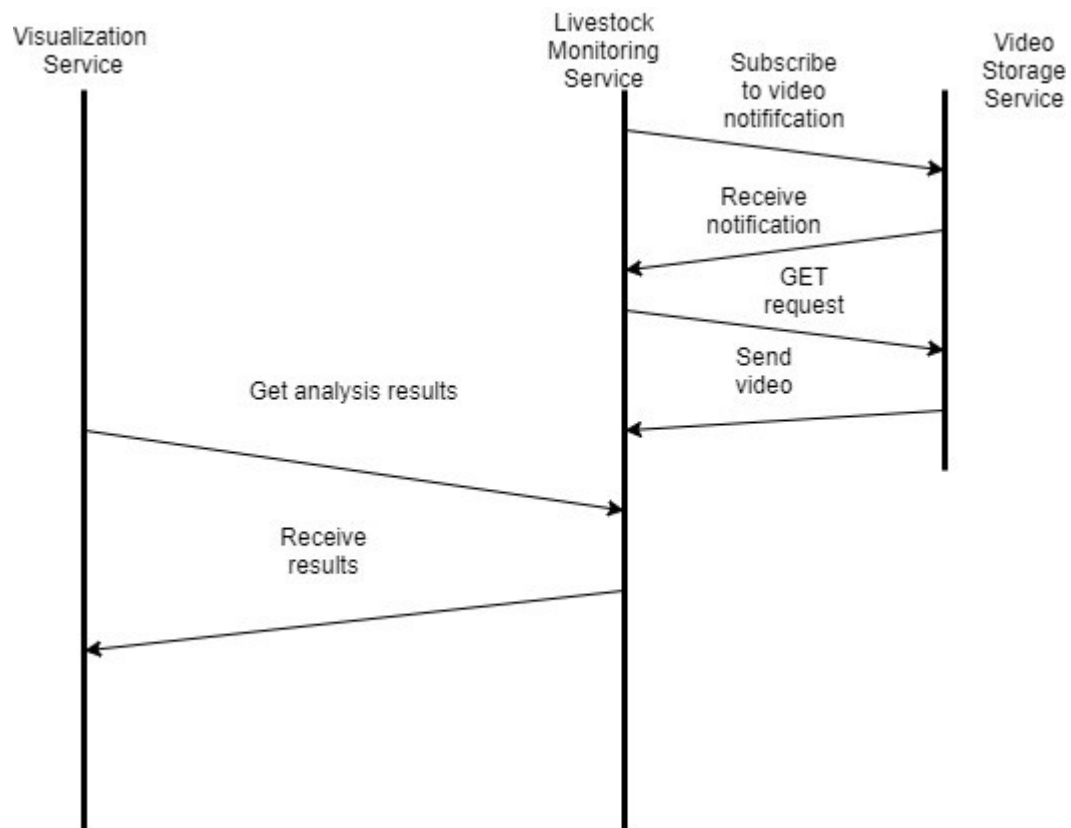
- Video Files (.mp4)
- Audio Files (.mp3)
- Possibly others

Additionally, services are required to provide information about a recorded video on request.

- Exact time and date of recording.
- ID of the sensor (e.g. video camera)
- Type of recording (video or audio file)

## Operational context

The video storage service allows authenticated service consumers to access video recordings via their id, to view all available recordings for a user, or to filter by sensor ID. It allows for registration of a callback URL via API call. Doing so will have the video storage service send a notification whenever a new video is available for download. Consumers can then download the video per GET request, using the video ID they received as part of the notification.



## Service template API

This section provides an abstract overview of the service template API. The detailed OpenAPI specifications can be found in the service registry.

### Endpoints

#### *list\_videos*

##### Inputs:

- Sensor ID (optional)

##### Outputs:

- list of available videos with
  - o video ID
  - o sensor ID
  - o record timestamp
  - o file type

#### *get\_video*

##### Inputs:

- video ID

##### Outputs:

- sensor ID

- record timestamp
- file type

#### *download\_video*

##### Inputs:

- video ID

##### Outputs:

- the file

#### *subscribe*

##### Inputs:

- callback url
- sensor ID(s) (optional)

##### Outputs:

- subscription ID

Notifications send to the callback URL are of the form:

- video ID
- sensor ID
- record timestamp
- file type

#### *unsubscribe*

##### Inputs:

- subscription ID

##### Outputs:

- none

#### *list\_subscriptions*

##### Inputs:

- none

##### Outputs:

- lists all subscriptions with
  - o subscription id
  - o callback URL

## Data model

The detailed data models, with examples can be found in the adjoining OpenAPI specifications.

## Dynamic behavior

*<TobeAdded>*

## Validation

*<Describe what is required from livestock monitoring service instances in order to automate service validation>*

## References

*<TobeAdded>*