



OGC Innovation: Testbed-18 Moving Features & Sensor Integration

Kickoff Meeting

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WebVMT: Overview

Enabling Technology

Open web format for location synchronisation with video

Designed For The Web

Sharing, indexing & map presentation

Engagement Website: webvmt.org

Overview, blog & technical demos

W3C Editor's Draft

Use cases, syntax examples, data model & draft specification

<http://w3c.github.io/sdw/proposals/geotagging/webvmt/>

OGC Testbed-17: Moving Features

Autonomous Vehicle Analysis: https://youtu.be/-BjeAp_hgQc

WebVMT: Moving Features & Sensors

Proposed Use Cases

Traffic camera aggregation & dashcam road survey

Initial Questions

Test data files – geotagged video

Suitable metadata content

Challenges

Synchronisation of multiple cameras & sensors

Location from perspective imagery

Initial Decisions

Export GeoPose – stream & chain

Previsualisation with WebVMT

WebVMT: Moving Features & Sensors

Value To End Users

- Improved accessibility for content creators

- Client-side web apps for lower bandwidth & data privacy

- Geotagged video web community growth

Value To Developers

- HTML DataCue integration

- Javascript API for moving objects & sensors

Value To Business

- Search engine integration

- Crowdsourced data

WebVMT: Moving Features & Sensors

HTML Integration

- Processing in web client engine

- Javascript API to HTML DataCue/VTT Cue

OGC Integration

- Moving Features – harmonisation

- GeoPose – maturation

Encoding

- Web video: MPEG-4, WebM, OGG

- Video metadata: WebVMT

 - JSON encapsulation

 - Interpolation

WebVMT: Moving Features & Sensors

Requirements Addressed

- Javascript API

- HTML integration

- W3C alignment with OGC standards

WG Reviewers

- Moving Features SWG

- Additional feedback

 - Spatial Data on the Web WG

 - GeoPose SWG