

MEET IN ASIA PACIFIC FOR THE
WORLD'S LEADING TRANSPORT TECHNOLOGY EVENT

ACTIVATING GLOBAL MOBILITY SOLUTIONS

ITS—ENHANCING LIVEABLE CITIES AND COMMUNITIES



2016
MELBOURNE

23rd World Congress on Intelligent Transport Systems

Melbourne Convention and Exhibition Centre

10–14 October 2016



Australian Government

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François Fischer

ERTICO – ITS Europe

Developing and validating video annotation open standards



Cloud LSVA standardization approach

- The Cloud LSVA EU project will follow a 3 step approach to provide video annotation standards:
 1. Use an open group to develop the video annotation standards
 2. Liaise with a Standard Development Organization to publish the resulting standards
 3. Carry out open TESTFEST event to validate the standards



Cloud LSVA open Group

- A stakeholder workshop was held on 24 May this Year in Munich
 - Participation of Automotive and Video stakeholders
 - Presentation of the Cloud LSVA concept and challenges
 - Data acquisition and storage challenges
 - Video analysis challenges with ADAS and Map production
 - Cloud technology solutions for Video
 - Standardisation
 - The Cloud LSVA open group was launched
 - Scope going beyond the Video annotation standardization but rather including the whole project scope



The first Cloud LSVA open Group meeting

- The first meeting was held on 26 September in Brussels
- Participants from the Automotive (OEM suppliers) – IT – and Video stakeholders
- Presentation and discussion focused on:
 - Technical challenges with big data video annotation
 - Standardisation needs
 - Proposal for a video annotation format
 - Presentation of the TESTFEST concept

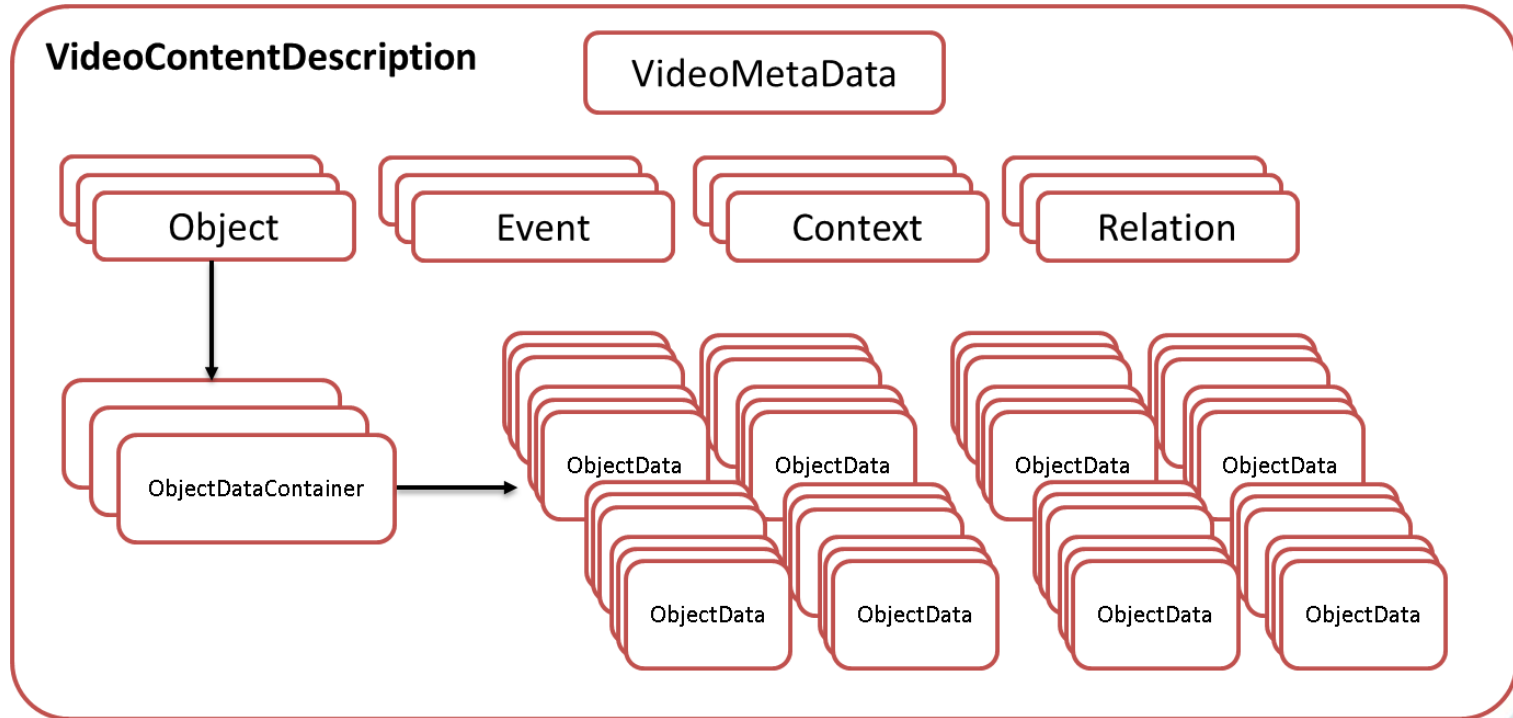


Video annotation data format

- Requirements
 - multi-dimensional Objects with time dimension
 - describe Events/Actions
 - Connection with Ontologies to enable reasoning
 - Good storage/streaming trade-off
 - Efficient parsing into XML, JSON, etc.
 - Lightweight API to translate app output ready for evaluation
- No existing standards are fulfilling all these requirements



Video content description



TESTFEST

	28/11/2016	29/11/2016	30/11/2016	02/12/2016	03/12/2016
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 10:00		Test session	Test session	Test session	Test session
10:00 - 11:00		Test session	Test session	Test session	Test session
11:00 - 12:00		Test session	Test session	Test session	Test session
12:00 - 13:00		Lunch	Lunch	Lunch	Lunch
13:00 - 14:00		Test session	Test session	Test session	Debriefing
14:00 - 15:00	Welcome & setup	Test session	Test session	Test session	
15:00 - 16:00		Test session	Test session	Test session	
16:00 - 17:00	Debriefing	Test session	Test session	Test session	
17:00 - 18:00		Debriefing	Debriefing	Debriefing	
18:00 - 19:00					
19:00 - 20:00					



Cloud-LSVA TESTFEST using the Cloud-LSVA integrated prototype to test its performance and get user's feedback



TESTFEST programme

- Cloud LSVA Web-based annotation interface + Desktop application with built-in tools
 - Participants receive brief instructions on how to annotate
- Different annotation tasks: individual and crowd-sourced
 - Create, refine, validate/rate, add detail, etc.
- Public/open video datasets and image collections
 - Already annotated datasets to evaluate user's ability to generate annotations
 - Non-annotated datasets as outcome of TESTFEST
- Post-analysis of results by Cloud-LSVA research team
 - Train and compare models using gathered annotations



TESTFEST roadmap

- Three TESTFEST events initially planned
 - M18 (June 2017): limited to consortium members and interested 3rd parties. Collect initial experiences using Prototype Alpha to guide RTD tasks
 - M24 (Dec. 2017): larger event to test enhancement achieved in Prototype Beta
 - M36 (Dec. 2018) : final event to evaluate final prototype and obtain conclusions on achieved improvements



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