Vitea©

composing **videos** for you

Vitea© : Automatic video composer

Vitea© is an automatic and scheduled video composition and generation library developed by Vicomtech-IK4. Based on a desired composition that you define in a standard description file, it builds a video containing all your audio, subtitles, other videos, virtual world representations, dynamic graphics, etc. Finally, your video can be stored, streamed or published in your social networks.

Applications

- Accelerate your corporate videos.

- Feed your news channel automatically.

- Generate automatically bulletins for weather forecasts, news, summaries, etc.

- Generate automatic video messages for alerting citizens.

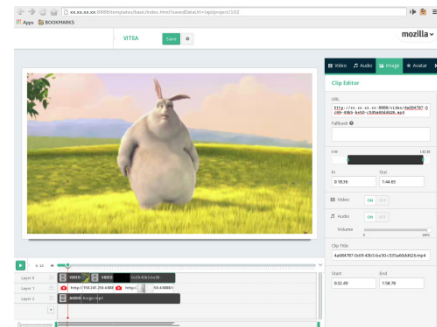- Boost your creative processes thanks to composition templates.

✓ VideoAlert

Automatic video message generation for alerting purposes.

✓ CorporateVideo

Empower your multimedia storytelling design to create corporate videos.

✓ BulletinComposer

Automatic bulletin video generation based on user defined templates and connected to external data sources for up-to-date information.

powered by:

vicomtech
visual interaction & communication technologies

Modules

module	Description	Applications	Language	3rd Party dependencies	Platforms
vitea_inout **(VT1)**	Communication layer	Content reception Content sending	C++	OpenSceneGraph 3.0.2 Qt 4.7.4 FFmpeg 39dbe9b OpenAL 1.14	Windows 7 (64 bits)
vitea_compositor **(VT2)**	Video composing methods	Automatic video and audio generation		GStreamer 0.10.7	
vitea_earth **(VT3)**	Virtual globe navigation	Flight generation		OsgEarth 2.3 OpenSceneGraph 3.0.2 GStreamer 0.10.7	

vitea_inout (VT1): This module is the gateway for receiving and queuing the XML-like outline of the desired video compositions, for activating the video generation service (VT2) and for emitting the final video.

vitea_compositor (VT2): This module integrates streaming and audio and video files with images, alphanumeric data, text or any other media type and generates the final composition as a video. For that purpose, it compiles all the required elements (audio and video files and streams, text, images, etc.) and it communicates with external applications for generating subtitles or virtual worlds. In case of flights over a virtual globe it is required to call to the module VT3.

vitea_earth (VT3): It renders a flight over a virtual globe and stores it as a video.

Input elements:

- Images
- Videos
- Audio files
- Text
- Alphanumeric data
- Geographic coordinates and routes

Output format:

- Video
- Subtitles (.srt)