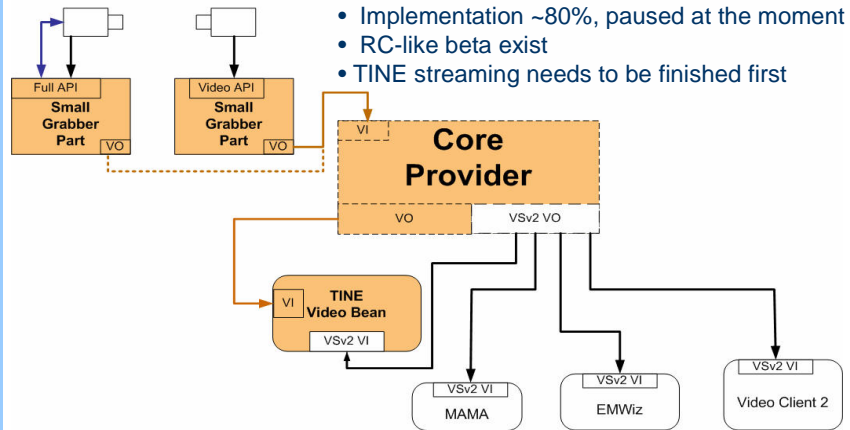


Video System

Short Status Report

CoreProvider



- Implementation ~80%, paused at the moment
- RC-like beta exist
- TINE streaming needs to be finished first

1

Stefan Weiße February 2009

Video System

Short Status Report

Generic/Unique Camera Slow Control Properties

- **Problem:** each distinct camera model has a different way to access almost identical set of slow control properties
 - e.g. gain, shutter speed, trigger mode, white balance, blacklevel, white clip level
- **Generic Slow Control:** a “fixed” (e.g. TINE) property interface that gives opportunity to control “any” camera type
 - for (semi-)automatic measurement clients and simple image quality control for operators
 - gain and shutter up to now (might be extended on demand)
- **Unique Slow Control:** a defined way of how to export any camera slow control property to control system (e.g. TINE) property level
 - for rich clients in order to provide a GUI to set slow control properties for any camera device in a defined way

2

Stefan Weiße February 2009

Video System

Short Status Report

Generic/Unique Camera Slow Control (TINE) Properties

1. Specification finished
2. Reference implementation (on TINE) finished
3. Current implementations (ready):
 - Jai/Pulnix Gigabit Ethernet cameras
 - Prosilica Gigabit Ethernet cameras
4. client design example (alpha) finished

preview

3

Stefan Weiße February 2009

Video System

Short Status Report

Universal File Format proceedings

1. planning and selection of file format finished
 - PNG file format as application-specific image load/save format
 - PNG file format as Export to third-party applications format (e.g. Powerpoint, LaTeX, Web Browsers, Photoshop, MS Word, OpenOffice, ...)
2. specification finished
 - how to implement extra data of Videosystem v3 images into PNG data format
3. first prototypes finished (looks good)
4. prototyping still ongoing

4

Stefan Weiße February 2009

Video System

Short Status Report

TINE streaming / TINE video image archiving

- TINE streaming
 - send huge data from server to client through a “sidepath”, transfer can be slow and must not meet hard timeout criteria
 - lossless transfer of big measurement data (might take its time to arrive, but it’s guaranteed to be lossless)
- TINE video image archiving
 - design work done
 - event-based live video recording to archive database will be implemented this spring

5

Stefan Weiße February 2009

Video System

Short Status Report

Export to e.g. MPEG file

- early prototype state
- Export image sequences as MPEG animation file for talks, conferences etc.
- will be commissioned/fully implemented later this year
- sneak preview

6

Stefan Weiße February 2009

Video System

Short Status Report

SVN repository discussion and change

- a release rollout “lifecycle” is implemented for VideoBean
- a svn script to inform collaborative workers of changes by other coworkers is still necessary to improve communication of code changes
- Zeuthen controls got its own Zeuthen-based svn repository and server for controls software development

7

Stefan Weiße February 2009

Video System

Short Status Report

Stefan's near future

- finish PNG prototyping
- provide C/C++ universal library to load/save VSv3 images as PNG file
- integrate TINE streaming into VSv3 servers (SGP, CoreProvider, ...) as “get sequence” method
- work on TINE video image archiving (until it's ready for production)
- Generic/Unique slow control installed at production

8

Stefan Weiße February 2009

Video System

Short Status Report

General Future Outlook

- support Cosylab guys in creating JAVA-based video applications
- Finish vsv3 core parts (CoreProvider, VideoService)
- rollout (even more) core parts at PITZ
- Test installations / rollout at DESY2, EMBL, Petra 3, Hasylab? ...