



Video System: Short Status Report

1. Recent Tasks
2. Issues looked into
3. What will happen in the next weeks
4. Perspective

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Recent Tasks

- Petra III (Gero Kube et.al.)
 - installed prosilica servers there (pesyli2 server)
 - installed universal slow control in order to tune prosilica cameras
- Hasylab Petra III Beamlines (Markus Degenhardt et.al.)
 - installed lots of prosilica servers
 - installed universal slow control in order to tune prosilica cameras

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Recent Tasks (cont'd)

- understand and properly consider restricted network bandwidth at Hamburg site
 - bandwidth across various floors in building 30
 - Hasylab server @PetraIII <-> BKR
 - Petra III Diagnostics beamline <-> BKR
 - progress has been made
 - effort to do until things run smoothly
 - limitations cannot be avoided until network hardware has got a major upgrade

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Recent Tasks III

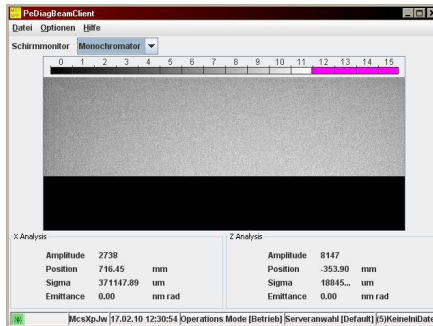
- first experience with new camera types (evaluated for PIZ)
 - Prosilica 1380 (comparable to Prosilica 1350, but bigger chip)
 - JAI 141 (same chip like Prosilica 1380, even better image quality measured, more manual control)
- Software development ongoing
 - Zeuthen controls discussion on video roadmap (coreprovider etc.); little change in roadmap
 - CoreProvider realisation will be smaller than announced before (main reason is to keep components small)
 - Separate Videosystem 2 compatibility layer component will do one of the jobs that was dropped off CoreProviders list
 - development of both components is main business at the moment

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Issues looked into

- Issues with Prosilica servers
 1. only part of the image gets transferred
 - seen at Petra III Emittanz
 2. server will stop parts of its service and will not properly exit if closed by hand
 - seen at Hasylab
 - rather certain it was also seen at Petra III Emittanz
- Issues are hard to fix because they start to happen after hours or days of working fine (hard, time-consuming investigation)



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What will happen in the next weeks

- Solving issues of Prosilica servers at Hasylab and Petra III Emittanz
- Continue and finish initial development of
 - Videosystem 2 compatibility layer component
 - CoreProvider component
 (release dates of both depend on the solving of Prosilica server issues above because all are based on the same framework, so issues are assumed also to be inherent there – they have not been seen, though)

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Perspective: after that a lot of topics are waiting...

- Event archive of video frames, readback video from event archive
- Rollout of new VSv3 components at PITZ, remove most of VSv2 stuff from PITZ
- Remove old VSv2 stuff from Hamburg, replace by VSv3 stuff

- Push components of VSv3 to next level based on user feedback
- Interfaces, libraries and API for accessing video system and video frames
- Software documentation, user documentation

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This is the end (of this talk).

Thank you for listening.

Questions?

Comments?

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