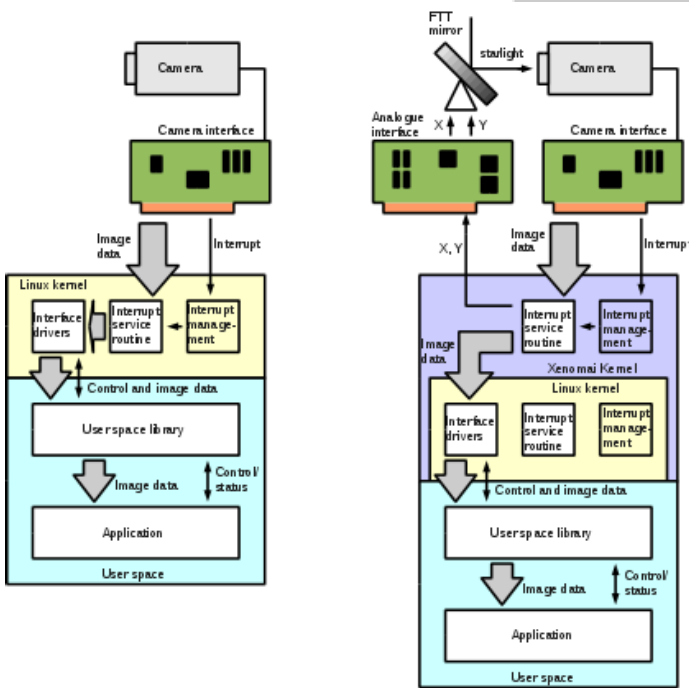
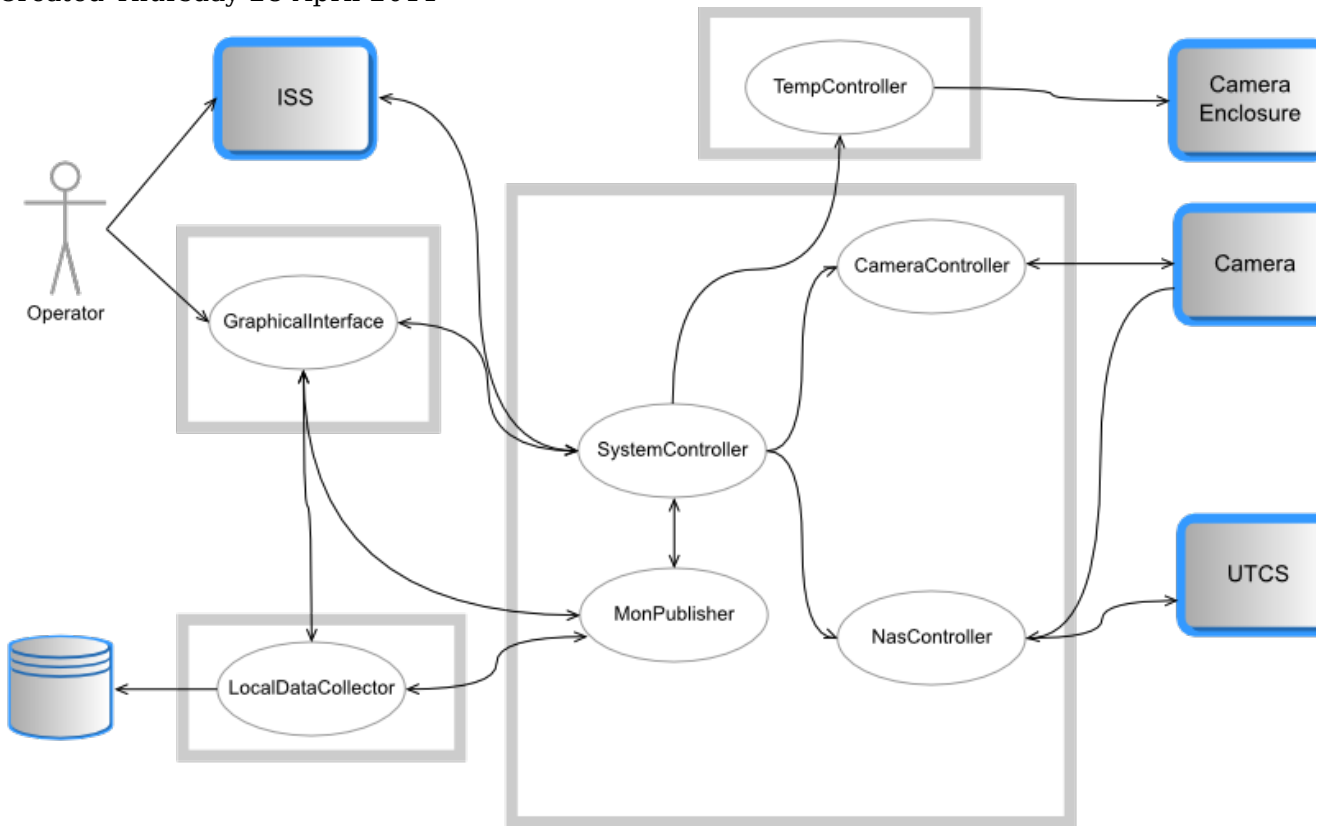


SoftwareDesign

Created Thursday 28 April 2011



(a)

(b)

Open Issues

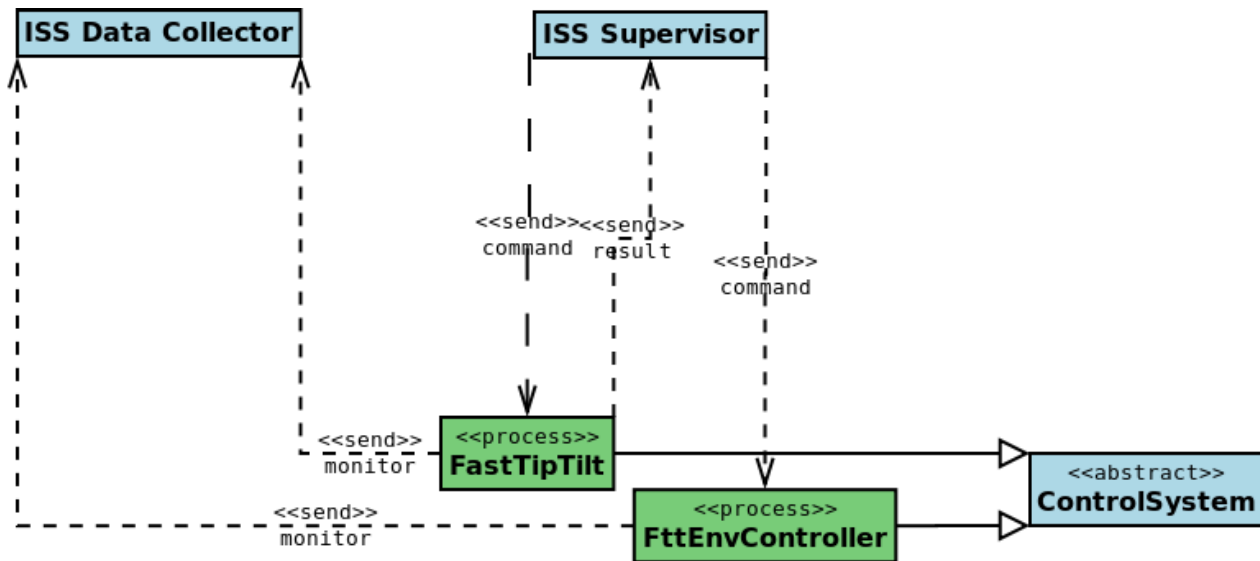
- Do we use real-time (FTT) architecture for FLC?
 - Need to refine RT architecture
- No use of ZeroMQ? (as mentioned in CoDR report)

- Need to try out [fasttime](#)

Architecture: ISS Interfaces

See also [GenericSystemInterface](#)

See also [FirstLightCameraCommands](#)



- Diagram applies for FTT/NAS and FLC - for FLC FastTipTilt class will implement a subset of the FTT/NAS commands and monitor points.
- SystemController and NasController tasks both part of FastTipTilt class
- POSIX thread for each asynchronous command
 - Will be async commands for at least Dark, Flatfield and Acquisition Check modes
- No polled monitor points; published when data available

Architecture: internal dlmsg data flows

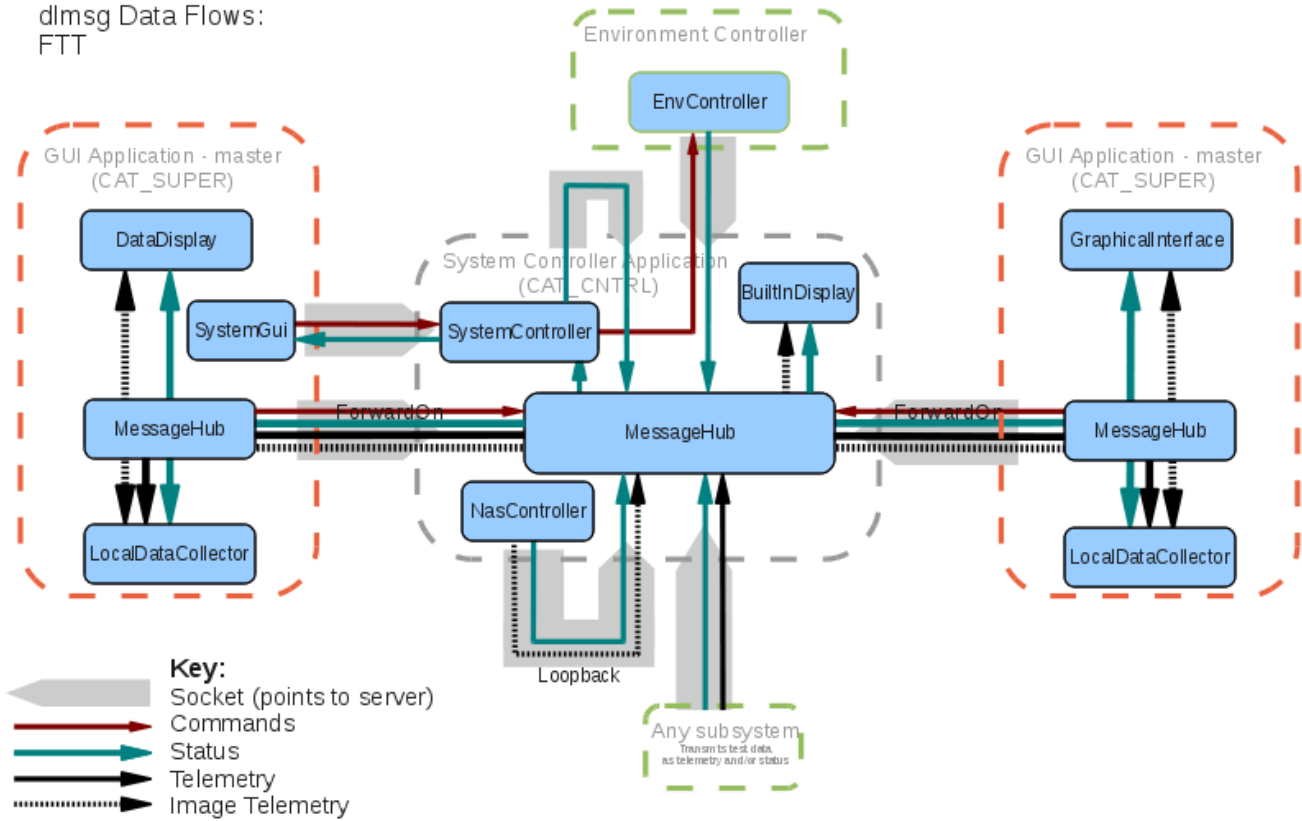
Latest software architecture in [TechnicalNotes/Software/InternalMessagingProposal.odt](#)

See also [FirstLightCameraCommands](#)

Other internal dataflows not shown:

- Image data to userspace (NasController)
- NasController to ISS monitor data (includes acquisition/tracking offsets)
- Image data as command result to ISS supervisor

dlmsg Data Flows:
FTT



MessageHub implemented.

Logger: Initial implementation of LocalDataCollector which writes images to binary table columns.