

Observatory



Camera Data
System (DAQ)

Raw
Images
24 GB

Crosstalk-
Corrected
Images
24 GB

Image and
EFD
Archiving

Prompt
Processing
Ingest

Data
Backbone
Endpoint

Base

NCSA

Processed Visit Image
& Difference Image
36 GB each

Catalog Entries
72 MB

Prompt
Processing

Alert Stream
1.8 GB

Alert Stream
1.8 GB

Filtered
Alert Stream
1.8 MB

Full-Feed
Alert
Broker

Alert Client

LSST
Science
Platform



Science
Users

DAC

NCSA

NCSA

External

Image size estimates are per visit of two snap exposures, uncompressed, either 18 bits per pixel transferred in 32 bits or 3x32 bits per pixel (image, mask, variance). Alternate Science Visits of one 30-second exposure would produce one 12 GB raw image and one 12 GB crosstalk-corrected image.

Alert stream and catalog estimates are for max 40K alerts per visit, delivered in 15 sec. Alerts include postage stamp images and one year DIASource history, uncompressed. Filtering ratio is for illustration only.