

# **Large Synoptic Survey Telescope (LSST)**

# **Butler working group charge**

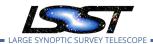
William O'Mullane, Tim Jenness LDM-563

Latest Revision: 2017-08-02

Draft Revision NOT YET Approved – This LSST document has been approved as a Content-Controlled Document by the LSST DM Change Control Board. If this document is changed or superseded, the new document will retain the Handle designation shown above. The control is on the most recent digital document with this Handle in the LSST digital archive and not printed versions. Additional information may be found in the corresponding DM RFC. – Draft Revision NOT YET Approved

#### **Abstract**

This is an overview for reviewers of the evolution of the LSST Data Management subsystem since early 2016.

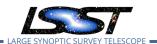


DM Butler WG LDM-563 Latest Revision 2017-08-02

# **Change Record**

Version	Date	Description	Owner name
1.0	2017-08-02	Initial version.	W. O'Mullane

Document source location: https://github.com/lsst/LDM-563



## 1 Scope

This working group is to look into the butler layer. It should start immediately (August 4, 2017) and finish its remit by 29 September 2017.

## 2 Responsibilities

- take input from a broad range of interested parties on the butler abstraction layer
- Pin down t the requirements in a written document (LDM)
- Rank butler requirements in terms of priority in time as well as which are nice to have features as opposed to "needed")
- define mode of work in DM to achieve implementation of butler
- Chair shall convene meetings on a regular basis.
- The group will draft documents for requirements and design/implementation.

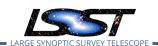
## 3 Specific tasks

#### 3.1 Draft requirements document(s)

If we consider this middleware requirements could be added to existing document otherwise we should have a new document to hold these (as well as having them in Magic Draw). These should also carry priorities.

#### 3.2 Plan to go forward

The path forward should be identified before the Working Group finishes. This should include advice to the PM on the distribution of work among institutes (if any) and indication of individuals responsible for different components.



#### 3.3 Specific topics to be considered

- Operational considerations The group must consider how to take care of operational constraints at NCSA. An initial dump of issues and constraints https://docs.google.com/ document/d/1BGz7Xa3\_jlapWLJ405NmfvumEdd36bgLRTByk0IxbtY/edit?usp=sharing has been made - these should be asses and categorized and answered.
- 2. **Data access** One major goal of butler is to provide abstraction to data access that could be with multiple implantation's. How do developers access local data awhile allowing condor jobs to access data on GPFS?
- 3. **Data discovery** This includes calibration logic and mappers the distinction between simple data access (see 2) and associating data items with each other should be made clear.
- 4. **Expansion of partial data IDs** this must be well explained and pinned down for ops.
- 5. **Third-party instrument support** How can we make it easier for others to use the stack
- 6. Subset data staging

## 4 Membership

Membership on the order of seven people is optimal.

- Tim Jenness (Chair)
- John Swinbank
- Maria and/or Colin (UW)
- Jim and/or Pim (Princeton)
- · Michelle Gower
- Nate Pease

In addition KT Lim is available as adviser.





Latest Revision 2017-08-02

# 5 Reporting

Chair shall report directly to DM Project manager weekly.