

Data Challenge 3 Management

from: [LSST Wiki Table of Contents](#).

Data Challenge 3 is being executed in two parts: Data Challenge 3a focused on improvements to the Application Framework, Middleware, and Alert Production, and implementation of a prototype SDQA system. Data Challenge 3b will focus primarily on the Data Release Production and improvements to the Alert Production algorithms and the SDQA system.

This page collects documents related to the management and execution of Data Challenge 3.

DC3 Startup Tasks

- [Tasks to be done prior to start of DC3 software development](#)
- [Discuss changes to application framework for DC3](#)
- [DC3 SVN and C++ namespace reorganization - for CCB discussion](#)
- [DC3 Desired 3rd Party Software](#)

DC3 Planning

- [DC3 Applications Management](#)
- [DC3TaskList: a wish list of tasks to be included in DC3](#)
- [DC3 Schedule](#)
- [DC3Platforms](#)
- [DC3ActionItems](#)

Development in DC3

1. [Developing with Virtual Machines](#)
2. Using the Pipeline Harness
 - ◆ [Reference for Apps Developers](#)
 - ◆ [Tutorial for Apps Developers](#)
 - ◆ [Writing a Pipeline Policy File](#)
3. Configuring Predefined Stage Classes
 - ◆ [InputStage](#)
 - ◆ [OutputStage](#)
 - ◆ [EventStage](#)
 - ◆ [SymLink](#)
4. Example of [A Simple Stage Tester](#)
5. [Trac Ticket Workflow tuned for Data Challenge 3](#)
6. [DC3 Software Tour](#)

DATA CHALLENGE 3a

Pre- DC3a Integration Week

- **Developers:**

- ◆ resolve all your DC3a delivery Tickets; merge Ticket branches onto trunk; tag packages
- **Package Gurus whose package implements either a single stage or a pipeline with multiple stages:**
 - ◆ test your package using either
 - ◇ the pipeline harness running single slice on a single node thru all stages; or
 - ◇ a script to advance the pipeline appropriately thru its stages.
 - ◆ load your pipeline policies into both
 - ◇ your local package: \$SVN/DMS/<your package>/pipeline/ ; and
 - ◇ the DC3 policy repository: \$SVN/DMS/ctrl/dc3pipe/pipeline/ .

DC3a Execution and Benchmarking

- [DC3aProductionsRuns](#)
- **TBD Ray: Setting up the Run directory** (out-of-date ref [SetUpRun](#) by DavidG)
- [Running the Pipeline Harness](#) (current by GregD)
- **TBD DavidG: Accessing the LSST Cluster** (out-of-date ref [LSSTCluster](#) by DavidG)
- **How to Run the Complete Set of DC3a Pipelines through ORCA** ([DC3PipeHowto](#))
- **DC3a Test Data**
 - ◆ Exposures and ancillary Calibration Artifacts (ref [DC3TestData](#) by DavidG)
 - ◇ [CFHT](#) (delivery: AndyB; installation: DavidG)
 - ◇ [simulated LSST exposures](#) (delivery: AndyC; installation: DavidG)
 - ◇ Access to images, templates, and calibration artifacts (KT)
 - ◆ Catalogs
 - ◇ catalog needed for WCS calculation, also known as Astrometry.net index tree (delivery: Fergal)
 - ◇ catalog needed for photometric zeropoint calculation (delivery: SteveB?; format and access unknown)
 - ◆ NightMOPS proprietary artifacts located in `lsst9:/lsst/DC3/opt`. See directory's README (by Francesco)

DC3a Report

- Report being developed within \$DMS/report/reportDC3a
- Refer to [DC3AReportOutline](#) for your writing assignments.

DC3a Meetings

- [DC3a Post Mortem Meeting](#) May 18, 2009

Reference Documents

- [Strawman for Simulations for Analysis with DC3](#)
- [?Dave Monet's draft document on astrometry for DC3.](#)
- [Transfer Challenge for DC3](#)
- [Test Data for DC3](#)

DC3a Software at ROE

- DC3AtROE

DATA CHALLENGE 3b

DC3b Meetings

- Initial DC3b scoping meeting May 18-20, 2009
- Applications Meeting (19-20 Feb 2008) Agenda to discuss Dc3 development tasks
- SDQA Scoping /DC3b Planning Meeting IPAC, June 11-12, 2009