



LARGE SYNOPTIC SURVEY TELESCOPE

Large Synoptic Survey Telescope (LSST)  
Data Management

# LDM-503-10b Large Scale Data Access CCOB data Test Plan and Report

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**DRAFT**

## Abstract

This is the test plan and report for LDM-503-10b (Large Scale Data Access CCOB data), an LSST level 2 milestone pertaining to the Data Management Subsystem.

## Change Record

Version	Date	Description	Owner name
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# LDM-503-10b Large Scale Data Access CCOB data Test Plan and Report

## 1 Introduction

### 1.1 Objectives

Demonstrate the ability to transfer data from the CCOB or SLAC with 21 rafts of data and ingest at LDF and make available through an instance of the LSP. This is a data transfer of data from SLAC or some other site with 21-raft-sized images to NCSA, ingest it into a Butler environment and place the file into file systems readable by the LSP. The CCOB device might NOT be available, but as 21 raft size data will be available from a test stand at SLAC, we will use a generic test stand data transfer method (e.g., rsync) to bring designated data to NCSA, ingest it, and place into appropriate filesystems, and make available through the LSP.

### 1.2 System Overview

This milestone is for bringing data from a test stand at SLAC that contains the test data for 21 rafts single image data with proper headers. That data is to be transferred to the LDF and ingested into the Butler, and then placed in file systems that are viewable by the LSP.

### 1.3 Applicable Documents

LDM-294 Data Management Organization and Management

LDM-503 DM Test Plan

LDM-148 Data Management System Design

### 1.4 Document Overview

This document was generated from Jira, obtaining the relevant information from the LVV-P55 Jira Test Plan and related Test Cycles ( LVV-C108 ).

Section 1 provides an overview of the test campaign, the system under test (DBB Services), the applicable documentation, and explains how this document is organized. Section 2 describes the configuration used for this test. Section 3 describes the necessary roles and lists the individuals assigned to them.

Section 4 provides a summary of the test results, including an overview in Table 1, an overall assessment statement and suggestions for possible improvements. Section 5 provides detailed results for each step in each test case.

The current status of test plan LVV-P55 in Jira is **Approved**.

## 1.5 References

- [1] **[LDM-148]**, Lim, K.T., Bosch, J., Dubois-Felsmann, G., et al., 2018, *Data Management System Design*, LDM-148, URL <https://ls.st/LDM-148>
- [2] **[LDM-294]**, O'Mullane, W., Swinbank, J., Jurić, M., DMLT, 2018, *Data Management Organization and Management*, LDM-294, URL <https://ls.st/LDM-294>
- [3] **[LDM-503]**, O'Mullane, W., Swinbank, J., Jurić, M., Economou, F., 2018, *Data Management Test Plan*, LDM-503, URL <https://ls.st/LDM-503>

## 2 Test Configuration

### 2.1 Data Collection

Observing is not required for this test campaign.

### 2.2 Verification Environment

21 raft scale data created from a test stand at SLAC, data transfer environment installed somewhere at SLAC, data transfer environment installed at NCSA, and LSP installed at NCSA/LDF

## 2.3 Entry Criteria

Data available for viewing with proper headers.

## 2.4 Exit Criteria

Data is viewable on LSP.

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### 3 Personnel

The following personnel are involved in this test activity:

- Test Plan (LVV-P55) owner: Michelle Butler
- Test Cycles:
  - LVV-C108 owner: Michelle Butler
    - \* Test case LVV-T1556 tester:
- Additional Test Personnel involved:
  - Test case LVV-T1556:

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## 4 Overview of the Test Results

### 4.1 Summary

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Test Cycle **LVV-C108: LDM-503-10b Large Scale CCOB Data Access**

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test case	status	comment	issues
LVV-T1556	Not Executed		

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Table 1: Test Results Summary

### 4.2 Overall Assessment

Not yet available.

### 4.3 Recommended Improvements

Not yet available.



## 5 Detailed Test Results

### 5.1 Test Cycle LVV-C108

Open test cycle *LDM-503-10b Large Scale CCOB Data Access* in Jira.

LDM-503-10b Large Scale CCOB Data Access

Status: Not Executed

Demonstrate the ability to transfer data from the CCOB with 21 rafts from SLAC and ingested at NCSA and make available through an instance of the LSP

#### 5.1.1 Software Version/Baseline

Not provided.

#### 5.1.2 Configuration

21 Raft data with proper headers at SLAC. Data transfer environment installed on SLAC systems. Data transfer environment at NCSA. Ingest software installed at LDF. LSP environment installed at NCSA.

#### 5.1.3 Test Cases in LVV-C108 Test Cycle

##### 5.1.3.1 Test Case LVV-T1556 - LDM-503-10B Large Scale CCOB Data Access

Open *LVV-T1556* test case in Jira.

Demonstrate the ability to transfer data from the SLAC test stand or CCOB with 21 rafts from SLAC and ingested at NCSA and make available through an instance of the LSP

**Preconditions:**

SLAC or some other test stand needs to have produced 21 rafts of data that has some environment for transferring the data to NCSA.

Execution status: **Not Executed**

Final comment:

Detailed step results:

Step	Description, Results and Status	
1	Description	Have a system at SLAC that has the 21 raft data that needs to be transferred to NCSA, and all accounts and scripts installed on environment that can read that data.
	Expected Result	scripts are able to transfer the data to NCSA though rsync or bbcp.
	Actual Result	
	Status	Not Executed
2	Description	Data is transferred to NCSA and ingested into Butler
	Expected Result	Data is transferred to NCSA, and can now be see in file systems by the LSP.
	Actual Result	
	Status	Not Executed
3	Description	using the LSP view the data in the ingested directory
	Expected Result	data can be viewed.



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Actual  
Result

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Status      Not Executed  
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## A Acronyms used in this document

<b>Acronym</b>	<b>Description</b>
CCOB	Camera Calibration Optical Bench
DM	Data Management
DMTN	DM Technical Note
LDF	LSST Data Facility
LDM	LSST Data Management (Document Handle)
LSP	LSST Science Platform
LSST	Large Synoptic Survey Telescope
NCSA	National Center for Supercomputing Applications
SLAC	SLAC National Accelerator Laboratory (formerly Stanford Linear Accelerator Center; SLAC is now no longer an acronym)