

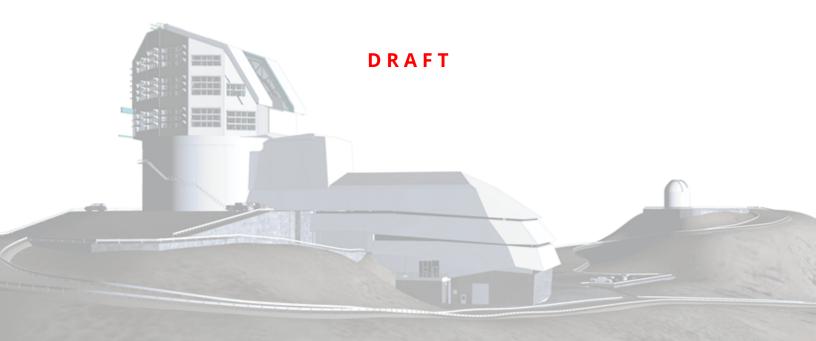
Vera C. Rubin Observatory Data Management

LDM-503-14a: RSP redeployed on the Interim Data Facility (IDF), ready for DP0.1 Test Plan and Report

Gregory Dubois-Felsmann

DMTR-301

Latest Revision: 2021-06-14





Abstract

This is the test plan and report for **RSP redeployed on the Interim Data Facility (IDF), ready for DP0.1** (LDM-503-14a), an LSST milestone pertaining to the Data Management Subsystem.

This document is based on content automatically extracted from the Jira test database on 2021-06-14. The most recent change to the document repository was on 2021-06-14.



Change Record

Version	Date	Description	Owner name	
	2021-03-29	First draft	Gregory	Dubois-
			Felsmann	

Document curator: Gregory Dubois-Felsmann

Document source location: https://github.com/lsst-dm/DMTR-301

Version from source repository: fdb7712



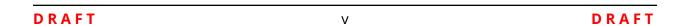
Contents

1	Introduction	1
	1.1 Objectives	1
	1.2 System Overview	1
	1.3 Document Overview	1
	1.4 References	2
2	Test Plan Details	3
	2.1 Data Collection	3
	2.2 Verification Environment	3
	2.3 Related Documentation	3
	2.4 PMCS Activity	3
3	Personnel	4
4	Test Campaign Overview	5
	4.1 Summary	5
	4.2 Overall Assessment	5
	4.3 Recommended Improvements	5
5	Detailed Test Results	6
	5.1 Test Cycle LVV-C166	6
	5.1.1 Software Version/Baseline	6
	5.1.2 Configuration	6
	5.1.3 Test Cases in LVV-C166 Test Cycle	6
	5.1.3.1 LVV-T2171 - Notebook Aspect access to a DP0.1 dataset in the	
	IDF-deployed RSP	6
	5.1.3.2 LVV-T2172 - Portal Aspect access to a DP0.1 dataset in the IDF-	
	deployed RSP	9
Α	Documentation	16



B Acronyms used in this document

16





LDM-503-14a: RSP redeployed on the Interim Data Facility (IDF), ready for DP0.1 Test Plan and Report

1 Introduction

1.1 Objectives

Demonstrate that the end-of-FY2020 capabilities of the Rubin Science Platform have been made available on the Interim Data Facility, and that DP0.1, based on ingested externally-provided DC2 data, can be supported. May be demonstrated with the DC2 DP0.1 dataset itself or with a dataset of equivalent complexity.

DP0.1 expectations are as described in RTN-001 and RTN-004.

1.2 System Overview

1.3 Document Overview

This document was generated from Jira, obtaining the relevant information from the LVV-P79 Jira Test Plan and related Test Cycles (LVV-C166).

Section 1 provides an overview of the test campaign, the system under test (LSP Services), the applicable documentation, and explains how this document is organized. Section 2 provides additional information about the test plan, like for example the configuration used for this test or related documentation. 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 2, 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-P79 in Jira is **Approved**.

DRAFT 1 DRAFT



1.4 References



DRAFT 2 DRAFT



2 Test Plan Details

2.1 Data Collection

Observing is not required for this test campaign.

2.2 Verification Environment

Must be executed in a well-documented controlled state of the IDF.

2.3 Related Documentation

No additional documentation provided.

2.4 PMCS Activity

Primavera milestones related to the test campaign:

• LDM-503-14a

DRAFT 3 DRAFT



3 Personnel

The personnel involved in the test campaign is shown in the following table.

	T. Plan LVV-P79 owner:	Gregory Dubois	s-Felsmann
	T. Cycle LVV-C166 owner:	Gregory Dubois	s-Felsmann
Test Cases	Assigned to	Executed by	Additional Test Personnel
LVV-T2171	Gregory Dubois- Felsmann		Someone with credentials allowing access to the instance of the RSP at the IDF on which the data are deployed.
LVV-T2172	Gregory Dubois- Felsmann		

DRAFT 4 DRAFT



4 Test Campaign Overview

4.1 Summary

T. Plan LVV-P79:		LDM-503-14a (IDF), ready fo	: RSP redeployed on the Interim Data Facility r DP0.1	Approved
T. Cycle LVV	'-C166:	LDM-503-14a:	Test RSP capabilities on IDF for DP0.1 readiness	Not Executed
Test Cases	Ver.	Status	Comment	Issues
LVV-T2171	1	Not Executed		
LVV-T2172	1	Not Executed		

Table 2: Test Campaign Summary

4.2 Overall Assessment

Not yet available.

4.3 Recommended Improvements

Not yet available.

DRAFT 5 DRAFT



5 Detailed Test Results

5.1 Test Cycle LVV-C166

Open test cycle LDM-503-14a: Test RSP capabilities on IDF for DP0.1 readiness in Jira.

Test Cycle name: LDM-503-14a: Test RSP capabilities on IDF for DP0.1 readiness

Status: Not Executed

This test cycle contains the tests necessary to verify the readiness of the RSP as redeployed on the IDF to meet the needs of the DP0.1 exercise, essentially repeating tests previously carried out on the NCSA RSP deployments.

5.1.1 Software Version/Baseline

Not provided.

5.1.2 Configuration

Not provided.

5.1.3 Test Cases in LVV-C166 Test Cycle

5.1.3.1 LVV-T2171 - Notebook Aspect access to a DP0.1 dataset in the IDF-deployed RSP

Version 1. Open LVV-T2171 test case in Jira.

Verify the availability through the Notebook Aspect of the DP0.1 test dataset or an equivalent, including access to both catalogs and images via the Butler.

DRAFT 6 DRAFT



Preconditions:

Creation of the DP0.1 dataset or a stand-in, in the form of a Butler repository accessible from the Notebook Aspect and with associated catalog data in a TAP service in the same RSP instance at the IDF.

Execution status: Not Executed
Final comment:
Detailed steps results:
Step 1 Step Execution Status: Not Executed
Description Authenticate to the notebook aspect of the LSST Science Platform (NB-LSP). This is currently at https://lsst-lsp-stable.ncsa.illinois.edu/nb.
Expected Result Redirection to the spawner page of the NB-LSP allowing selection of the containerized stack version and machine flavor.
Actual Result
Step 2 Step Execution Status: Not Executed
Description Spawn a container by: 1) choosing an appropriate stack version: e.g. the latest weekly. 2) choosing an appropriate machine flavor: e.g. medium 3) click "Spawn"
Expected Result Redirection to the JupyterLab environment served from the chosen container containing the correct stack version.
Actual Result

DRAFT 7 DRAFT



Step 3	Step Execution Status: Not Executed
Description	
Use the file brow	vser on the left of the JupyterLab UI to open the "LSST Catalog Access Tutorial" notebook.
Expected Resi	
— — — — Actual Result	
Step 4	Step Execution Status: Not Executed
Description Execute the note	ebook. Take note of any errors encountered along the way.
Expected Resi	ult
 Actual Result	
Step 5	Step Execution Status: Not Executed
Description Use the file brow	ser on the left of the JupyterLab UI to open the "Firefly" notebook.
Expected Res	
— — — — Actual Result	
Step 6	Step Execution Status: Not Executed
Description Execute the note	ebook. Take note of any errors encountered along the way.

DRAFT 8 DRAFT



Expected Result				
— — — — Actual Result				
Step 7	Step Execution Status: No	t Executed		
Description				
Log out of the N	Notebook Aspect.			
Expected Res	sult			
— — — — Actual Result				

5.1.3.2 LVV-T2172 - Portal Aspect access to a DP0.1 dataset in the IDF-deployed RSP

Version 1. Open LVV-T2172 test case in Jira.

Verify the availability through the Portal Aspect to catalog data from the DP0.1 test dataset or an equivalent, via an RSP TAP service on the IDF. The emphasis will be on an Object-like catalog.

Preconditions:

Creation of the DP0.1 dataset or a stand-in, and service of the associated catalog data and schema in a TAP service in the same RSP instance at the IDF.

Execution status: Not Executed

DRAFT 9 DRAFT



Final comment:
Detailed steps results:
Step 1 Step Execution Status: Not Executed
Description Navigate to the Portal Aspect endpoint. The stable version should be used for this test and is currently located at: https://lsst-lsp-stable.ncsa.illinois.edu/portal/app/.
Expected Result A credential-entry screen should be displayed.
Actual Result
Step 2 Step Execution Status: Not Executed
Description Enter a valid set of credentials for an LSST user with LSP access on the instance under test.
Expected Result The Portal Aspect UI should be displayed following authentication.
— — — — — — — — — — — — — — — — — — —
Step 3 Step Execution Status: Not Executed
Description Navigate to the TAP Search screen
Expected Result
— — — — — — — — — — — — — — — — — — —

DRAFT 10 DRAFT



Step 4	Step Execution Status: Not Executed
Description	
Ensure that the	TAP service internal to the RSP instance is selected. (This should be the default choice.)
— — — — Expected Res	
•	as" available on that service should be displayed, along with a list of tables in the default schema.
A Hist of Scheme	as available on that service should be displayed, along with a list of tables in the default seriema.
Actual Result	
Step 5	Step Execution Status: Not Executed
Description	
Select the TAP "	schema" for the data to be queried (see test parameter).
Test Data	
	name for catalog data to be tested}
(TAI SCHEITIG I	idiffer for Catalog data to be tested?
Expected Res	sult
•	n the selected schema should be displayed.
Actual Result	
Step 6	Step Execution Status: Not Executed
Description	og table to be gueried (see test parameter)
Select the Catalo	og table to be queried (see test parameter).
Test Data	
	ne for catalog to be queried}
Expected Res	
A search interfa	ce for the selected table should be presented.

DRAFT 11 DRAFT



Actual Result
Step 7 Step Execution Status: Not Executed
Description Enter the sky coordinates of the location to be tested (see test parameter) in the "Spatial" query-builder element on the left of the screen. (Note that the test dataset is likely to be of limited extent on the sky.) Enter 100 arcseconds as the search radius.
Test Data {(ra, dec) tuple for a location covered by the test catalog}
Expected Result
Actual Result
Step 8 Step Execution Status: Not Executed
Description Verify that a list of available columns is displayed on the right of the search screen. Note in the test report whether a subset of the available columns is highlighted with a check mark, and if so which columns they are.
Expected Result
Actual Result
Step 9 Step Execution Status: Not Executed
Description Execute the search.

DRAFT 12 DRAFT



Possibly after the display of an in-progress indication, a search result should be displayed in the "tri-view" - a coverage image on the upper left, a default X-Y plot on the upper right, and the tabular query result on the bottom.

Note that if the dataset is simulated, the coverage image may not correspond to the catalog data. (It is not a requirement of DP0.1 for a coverage image for DESC DC2 to be created or made available in the Portal Aspect.)
Actual Result
Step 10 Step Execution Status: Not Executed Description Verify that the guest result severe the expected region of slav and that the expected set of solumns is included in
Verify that the query result covers the expected region of sky, and that the expected set of columns is included in the query result. Record the number of rows returned by the query.
Record the identity displayed for the coverage image.
Expected Result
Actual Result
Step 11 Step Execution Status: Not Executed
Description Verify that the X-Y plot can be modified to display a user-selected pair of columns.
Expected Result
Actual Result
Step 12 Step Execution Status: Not Executed Description

DRAFT 13 DRAFT



DRAFT 14 DRAFT



Expected Result					
Actual Result					

DRAFT 15 DRAFT



A Documentation

The verification process is defined in ? . The use of Docsteady to format Jira information in various test and planing documents is described in ? and practical commands are given in ?

B Acronyms used in this document

Acronym	Description					
DC2	Data Challenge 2 (DESC)					
DESC	Dark Energy Science Collaboration					
DM	Data Management					
DMTN	DM Technical Note					
DP0	Data Preview 0					
IDF	Interim Data Facility					
LDM	LSST Data Management (Document Handle)					
LSE	LSST Systems Engineering (Document Handle)					
LSP	LSST Science Platform (now Rubin Science Platform)					
LSST	Legacy Survey of Space and Time (formerly Large Synoptic Survey Tele-					
	scope)					
LVV	LSST Verification and Validation					
NCSA	National Center for Supercomputing Applications					
PMCS	Project Management Controls System					
RSP	Rubin Science Platform					
RTN	Rubin Technical Note					
TAP	Table Access Protocol					
UI	User Interface					
URL	Universal Resource Locator					
XML	eXtensible Markup Language					

DRAFT 16 DRAFT