

# PDS B13.1 TRR

PDS Engineering Node

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# 1 Agenda

## 2 Contents

### 3 Review Board

Review Board Chair	Scott Markham
Chief Engineer	Costin Radulescu/Kyran Owen-Mankovich (Delegate)
Assurance Engineer	Eva Bokor
Security Systems Engineer	Mike Pajevski
Task Manager	Jordan Padams
Test Engineer	Gary Chen/Miguel Pena
Other Stakeholders	Kevin Grimes - Cartography and Imaging Sciences Node (not present) Dan Scholes - Geoscience Node at Wash U (not present) Mike Drum – SBN at Planetary Science Institute (not present)

## 4 Software Overview

Work Product	DMS Doc and Revision ID	DMS Document Status
Test Plan	<a href="https://pds-engineering.jpl.nasa.gov/content/build_13.1_it_deliverables">https://pds-engineering.jpl.nasa.gov/content/build_13.1_it_deliverables</a>	Version 1.0
PDS General System Software Requirements Document (SRD) version 1.1	<a href="https://pds-engineering.jpl.nasa.gov/file/pds4-system-reqs.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-system-reqs.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/ds4-harvest-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/ds4-harvest-design.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/pds4-preparation-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-preparation-design.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/pds4-registry-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-registry-design.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/pds4-report-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-report-design.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/pds4-search-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-search-design.pdf-0</a> <a href="https://pds-engineering.jpl.nasa.gov/file/pds4-security-design.pdf-0">https://pds-engineering.jpl.nasa.gov/file/pds4-security-design.pdf-0</a> , as found on <a href="https://pds-engineering.jpl.nasa.gov/content/key-documents">https://pds-engineering.jpl.nasa.gov/content/key-documents</a> <a href="https://github.com/NASA-PDS-Incubator/pds-deep-archive/blob/master/docs/pds4_nssdca_delivery_design_20191219.docx">https://github.com/NASA-PDS-Incubator/pds-deep-archive/blob/master/docs/pds4_nssdca_delivery_design_20191219.docx</a> and <a href="https://docs.google.com/spreadsheets/d/18oqtg3DEo2KrgvBOWLSOuqF2uZtq2XmByJwUknYSZUQ/edit#gid=1170315169">https://docs.google.com/spreadsheets/d/18oqtg3DEo2KrgvBOWLSOuqF2uZtq2XmByJwUknYSZUQ/edit#gid=1170315169</a>	Released
Test Procedures	<i>To be developed after TRR</i>	N/A
Test Anomaly & Issues (GitHub Issues)	Issues are tracked under each individual component repository, e. g. <a href="https://github.com/NASA-PDS">https://github.com/NASA-PDS</a> See Release Description for links to specific repositories.	Anomalies found during system test cycles. Task tracking.

Test Support Tools	N/A	N/A
Test Report	<i>To be developed after testing is completed</i>	N/A
System Deployment Guide	See individual tool Installation Guides.	N/A
Release Description	<sup>1</sup> <a href="https://nasa-pds.github.io/releases/13.1/rdd.html">https://nasa-pds.github.io/releases/13.1/rdd.html</a>	N/A

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<sup>1</sup> <https://nasa-pds.github.io/releases/13.0/rdd.html>

<sup>2</sup> <http://nasa-pds.github.io>

<sup>3</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>

## 5 Commitments

See<sup>4</sup>[B13.1 RDD](#). Any tasks that do not contain a "badge" in the I&T column are either sub-tasks of a larger requirement / bug fix, or a sustaining task.

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<sup>4</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>



## 6 Improvements

See<sup>5</sup>[B13.1 RDD](#). Any tasks that do not contain a "badge" in the I&T column are either sub-tasks of a larger requirement / bug fix, or a sustaining task.

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<sup>5</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>

## 7 Defect Corrections

See<sup>6</sup>[B13.1 RDD](https://nasa-pds.github.io/releases/13.1/rdd.html). Any tasks that do not contain a "badge" in the I&T column are either sub-tasks of a larger requirement / bug fix, or a sustaining task.

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<sup>6</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>

## 8 Sustaining Activities

See<sup>7</sup>[B13.1 RDD](#). Any tasks that do not contain a "badge" in the I&T column are either sub-tasks of a larger requirement / bug fix, or a sustaining task.

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<sup>7</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>

## 9 Other

None

## 10 Documentation

These are not explicitly denoted in the RDD or task descriptions. Any documentation updates requiring I&T inspection will be tagged the same as other improvements.

## 11 Test Objectives

Ensure modified tools are

- Functioning correctly
- Meeting user needs
- Meeting requirements

## 12 Test Environment

- Command line tools will be tested on the terminal app in Mac OS.
- When testing API calls, the server will be launch in the docker container.
- Dev team is developing/testing on the dev server with developer's test data, and I&T team is testing on docker servers with test data included.

The software tested can be run on any machine with sufficient resources. At EN:

- Macbook running macOS 13.2.1, 32GB memory
- Macbook running macOS 13.2.1, 16GB memory
- <sup>8</sup>pds-int.jpl.nasa.gov, Oracle Linux 8.7, 16GB memory
- Docker container, Debian GNU/Linux 11 (bullseye)

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<sup>8</sup> <http://pds-int.jpl.nasa.gov>

## 13 Key/New Test Cases

See<sup>9</sup>[B13.1 RDD](https://nasa-pds.github.io/releases/13.1/rdd.html).

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<sup>9</sup> <https://nasa-pds.github.io/releases/13.1/rdd.html>



## 14 Test Personnel

<b>Person</b>	<b>Role</b>	<b>Assignment</b>	<b>Availability</b>
Gary Chen	Lead EN I&T Tester	Lead PDS I&T	0.45/40
Miguel Pena	EN I&T Tester	Support PDS I&T	0.5/40

## 15 Test Effort Rationale

- The total estimated time to execute the test procedures is 92 hours.
- With two part time testing engineers, it will take about three weeks to finish the tests.

#	Test ID	Mission	Tester	Days to Perform Test
1	Pds4 Information Model	PDS	MPena	2
2	validate	PDS	MPena	3
3	registry / harvest, Registry-Common/Registry-mgr	PDS	GChen	6
4	api/api-client	PDS	GChen	3
5	doi service/doi-ui	PDS	GChen	2
6	wds-web, portal-tasks,	PDS	GChen	3
				Total 19 days

## 16 Test Constraint And Risks

These planned tests fully depend on Registry Docker fully functioning, including bringing up swagger web and loading test data from existing test folders.

- IF installation and configuration of external software packages goes poorly THEN testing of the registry will halt until solved WITH LIKELIHOOD OF 50%.
- IF software changes and fixes come in THEN those tests will need to be rerun WITH LIKELIHOOD of 90% and CONSEQUENCE OF resetting the number of days needed for testing.
- IF DataCite's interface works poorly THEN many components of DOI service will halt WITH LIKELIHOOD of 90%.
- IF documentation of pds-api-client is not complete THEN testing of the pds-api-client will halt until solved WITH LIKELIHOOD OF 90%.

## 17 Action Item Status

Action Item	Status	Comment
MGSSAITS-1204 Setup Meeting to determine official PDMS document repository	Open	Meeting by end of this FY.
MGSSAITS-1205 Meet with Mike Pajevski to discuss Semmler scans on java script	Open	Scans added to all repos. Email sent to Mike P. and Elyssa on 4/3 with links to scan results.
MGSSAITS-1206 PDS should follow MGSS standard for reporting defects at a DDR	Open	Done as of B13.0 DDR.

## 18 Deviations

See Deviations reviewed and approved by PDS Software Working Group.

<https://github.com/NASA-PDS/pds-swg/issues?q=is%3Aissue+label%3Achange-request+label%3AB13.1+>