

B17 DDR

1. Agenda

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2. Review Board
3. Software Overview
4. Commitments/Improvements/Defect Corrections
5. Sustaining Activities
6. Other
7. Documentation
8. Test Case Explanations
9. Software Status
10. Open Defect Summary
11. Action Item Status
12. Deviations
13. Security Impact Analysis

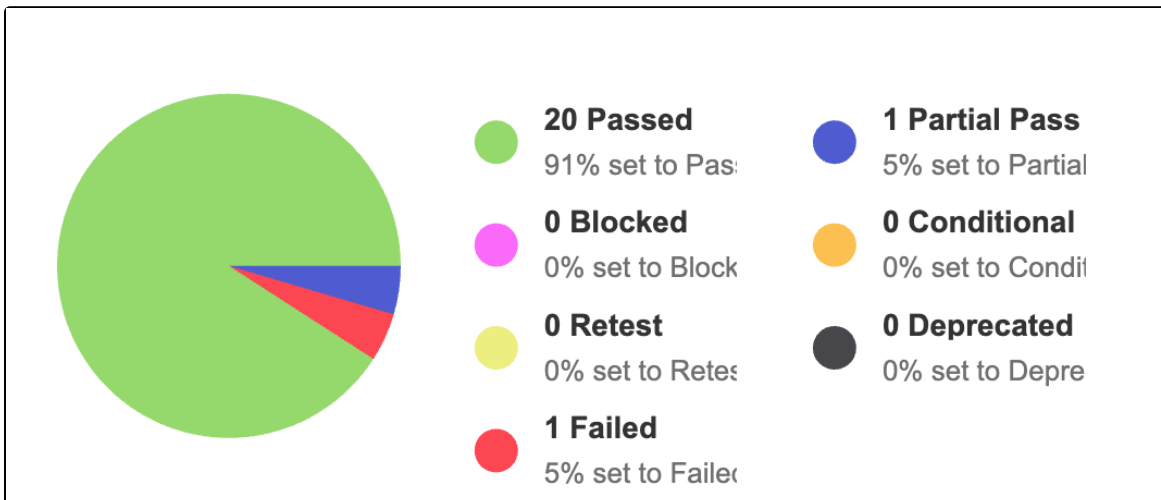
2. Review Board

Review Board Chair	Jamie Seung Shin
Chief Engineer	Michele Vogt
Deputy Chief Engineer	Kyran Owen-Mankovich
Assurance Engineer	Korwin Anderson
Security Systems Engineer	Mike Pajevski
Task Manager	Jordan Padams
Test Engineer	Richard Chen, Thomas Loubrieu, Catherine Suh
Other Stakeholders	Dan Scholes - Geoscience Node at Wash U Mike Drum – SBN at Planetary Science Institute Jason Kang - Cartography and Imaging Sciences Node

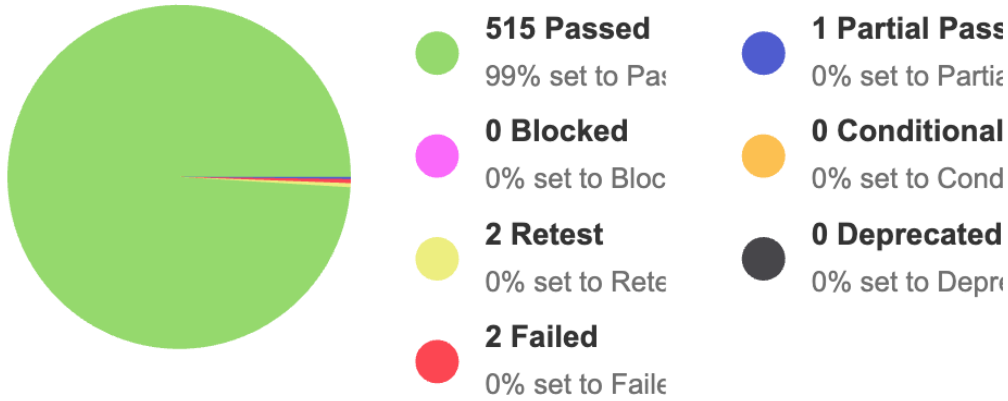
3. Software Overview

- Software Summary: <https://nasa-pds.github.io/releases/17/>
- Release Description Document: <https://nasa-pds.github.io/releases/17/rdd.html>
- Test runs and results for release 17 in Testrail: <https://cae-testrail.jpl.nasa.gov/testrail/index.php?/milestones/view/2448>

4. Commitments/Improvements/Defect Corrections



B17 Manual Tests



5. Sustaining Activities

None.

6. Other

None.

7. Documentation

Architecture Description	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/architecture/system_architecture/pds4_system_arch_spec.pdf	Complete
Design Specification	See various design docs in: https://pds-engineering.jpl.nasa.gov/content/key-documents	Complete
Management Plan	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/keydocuments/PDS-SMP.pdf	Complete
Operation Concept	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/keydocuments/pds4-ops-concept.pdf	Complete
Requirements	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/design/system_design/pds4_system_reqs.pdf	Complete
Task Implementation Plan	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/pds4-proj-plan-07172013.pdf	Complete
Release Plan	https://github.com/orgs/NASA-PDS/projects/22	Complete
Release Description	https://nasa-pds.github.io/releases/17/rdd.html	Complete
Test Plan	https://cae-testrail.jpl.nasa.gov/testrail/index.php?/milestones/view/2448	Complete

Test Reports	<p>(1) Manual: https://cae-testrail.jpl.nasa.gov/testrail/index.php?/plans/view/52450</p> <ul style="list-style-type: none"> (a) TestRail - B17 - Manual Tests - Requirements - 20260608.pdf (b) TestRail - B17 - Manual Tests - Bugs - Critical - 20260608.pdf (c) TestRail - B17 - Manual Tests - Bugs - High - 20260608.pdf <p>(2) Automation:</p> <ul style="list-style-type: none"> (a) TestRail - B17 - Automated Tests - PDS4 Information Model LDDTool - 20260605.pdf (b) TestRail - B17 - Automated Tests - Peppi - 20260605.pdf (c) TestRail - B17 - Automated Tests - Registry - 20260611.pdf (d) TestRail - B17 - Automated Tests - Validate - 20260605.pdf 	Complete
User Guide	See individual tool documentation. Links in B17 RDD	Complete

8. Test Case Explanations

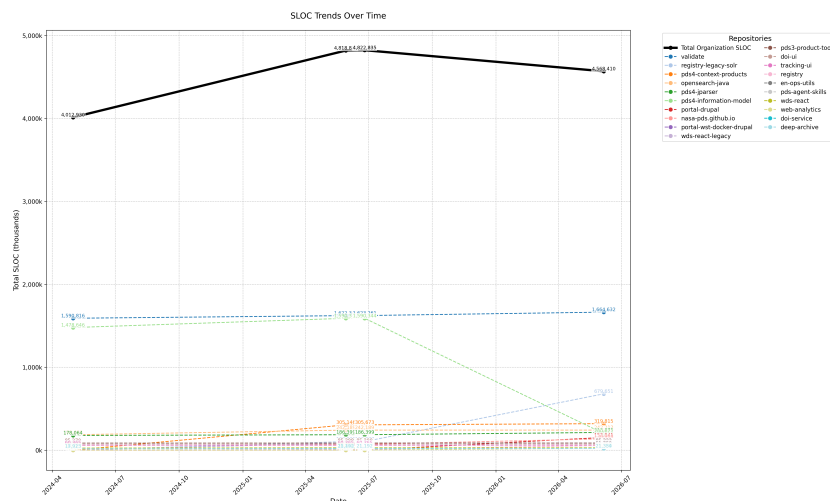
Test ID	RLI Type	Title	Test Result	Explanation	Criticality Assessment
C4546079 /T9749807	requirement	peppi#158 As a data user, I want to search for products by DOI	FAILED	This is partially implemented.	The feature is implemented to the users but not as easily accessible as specified in the requirement. We will shortly fix the issue or document the work-around.
T9801285	requirement	registry-api#436 As a user, I want to get all product versions associated to one lid	Automation FAILED this, but it is a PARTIAL PASS	Failed to satisfy registry-api#69 .	Low. The function works and the performance issue is not generalized.
C4542200 /T9801932	bug	registry-mgr#170 set-archive-status says it updates more products than are in the bundle	PARTIAL PASS	The numbers match for a collection, but there's a slight mismatch (difference of 2) for a bundle.	Low. Will tag an incremental release when fixed.

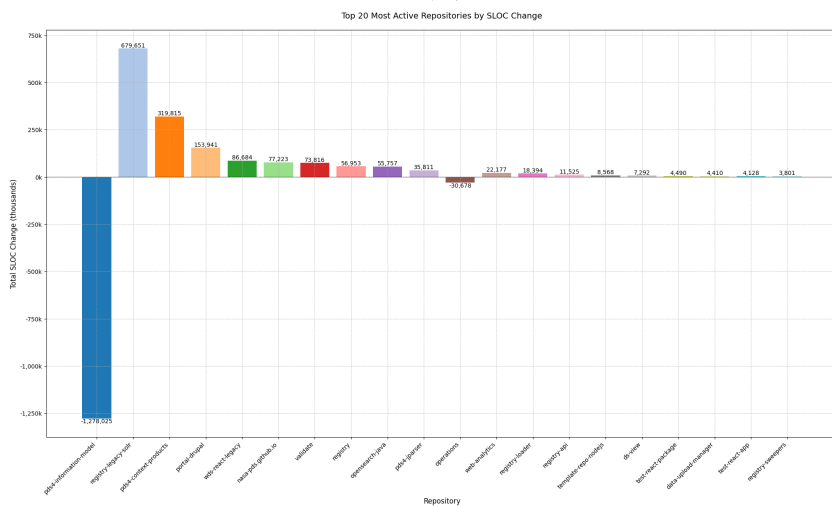
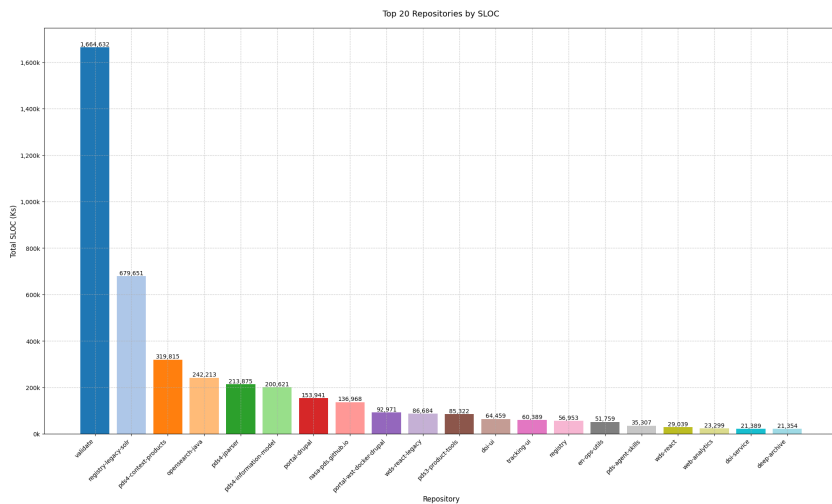
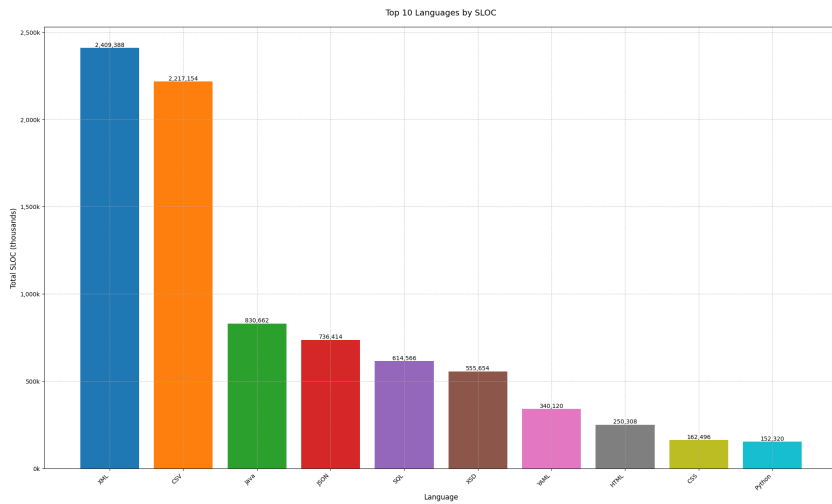
9. Software Status

All the PDS Engineering Node software are managed (code, documentations, tickets) under github, in a single organization:

CM Tool	CM Repository
github	https://github.com/nasa-pds

The list of the components/version released for build 17 can be found in the [software release catalog](#).





10. Open Defect Summary

Rating	Definition	Bugs Closed in Build	Total Open Bugs	Bugs Opened Since Last Release
Critical	Defect makes the SW unusable for mission operations. Major functions do not work or fail over the course of normal operations.	6	1	5
Major	Defect has significant impact on usability of delivered software for mission operations. User experience is difficult and/or cumbersome. Workaround available is arduous.	21	8	19

Moderate	Defect has moderate to mild impact on usability of delivered software for mission operations. User experience is degraded but workable.	52	63	49
Minor	Defect means software does not work as originally intended, but the defect has little impact on the usability of the delivered software.	4	72	15
Total		83	144	88

[Google Sheet for tracking this build over build](#)

Critical or Major Open Bugs, see <https://github.com/orgs/NASA-PDS/projects/6/views/11?filterQuery=label%3As.high%2Cs.critical+is%3Aopen+label%3AB17>

Bug	Comments
Ancestry not working properly for SBN and 5 related tickets	Fix has been tested in integration but not deployed in production, at full scale. Fix will be completed with release Production.
Some fields are not indexed as expected in Registry Opensearch and 1 related ticket	Newly raised issues being investigated. Impact is low for users as there are 3 affected fields and they are for internal use.
[nucleus] python-jose: JWT algorithm confusion allows auth bypass in Cognito Lambda (CVE-2024-33663)	Fixed on developer side. Needs to be merged and released. Fix will be completed with release Production for this build release.

11. Action Item Status

Ticket	Title	Status
MGSSAITS-1792	RFA: PDS Software task to identify and implement automated way to capture code coverage	In work. See ticket for progress.
MGSSAITS-1915	RFA : Update and Justify Test Status in RDD	Closed.

12. Deviations

<https://github.com/orgs/NASA-PDS/projects/22/views/7>

13. Security Impact Analysis

Network security	
Confirmation that existing ports were reviewed and disabled if no longer needed:	N/A because no components were scrubbed from the PDS system.
Description of additional ports required in release:	None
Description of security of additional ports (encryption, authentication, etc):	None
Software security	
Software scan date and method:	https://github.com/NASA-PDS/software-issues-repo/issues/142
Critical and High vulnerability mitigation:	https://github.com/NASA-PDS/software-issues-repo/issues/142