PDS B14.1 DDR

PDS Engineering Node

Exported on 06/02/2024

Table of Contents

1 1. Agenda

2 2. Review Board

Review Board Chair	Kyran Owen-Mankovich
Chief Engineer	Kyran Owen-Mankovich (Deputy)
Assurance Engineer	Eva Bokor
Security Systems Engineer	Mike Pajevski
Task Manager	Jordan Padams
Test Engineer	Gary Chen/Miguel Pena
Other Stakeholders	Tim Mcclanahan - PDS Project Office Dan Scholes - Geoscience Node at Wash U Mike Drum – SBN at Planetary Science Institute Jason Kang - Cartography and Imaging Sciences Node

3 3. Software Overview

- https://nasa-pds.github.io/releases/14.1/
- https://nasa-pds.github.io/releases/14.1/rdd.html
- Test procedures and results for release 14.1 in Testrail: https://cae-testrail.jpl.nasa.gov/testrail/index.php?/runs/view/42093&group_by=cases:section_id&group_order=asc

4 4. Commitments/Improvements/Defect Corrections

B14.1.testrail-report-2652.20240528.pdf

5 5. Sustaining Activities

None.

6 6. Other

None.

7 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-eng ineering.jpl.nasa.gov/sites/default/files/documents/pds2010/keydocuments/PDS-SMP.pdf[1]	Complete
Operation Concept	https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/keydocuments/pds4-ops-concept.pdf	Complete
Release Description	https://nasa-pds.github.io/releases/14.1/rdd.html	Complete
Release Plan	https://nasa-pds.github.io/releases/14.1/plan.html	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
Test Plan	https://pds-engineering.jpl.nasa.gov/pds4/system-builds/build-14-1-it-deliverables/	Complete
Test Report	https://pds-engineering.jpl.nasa.gov/pds4/system-builds/build-14-1-it-deliverables/	Complete

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1 https://pds-engineering.jpl.nasa.gov/sites/default/files/documents/pds2010/keydocuments/PDS-SMP.pdf

User Guide	See individual tool documentation. Links in RDD[2]	Complete

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8 8. Additional Testing

8.1 8.1.1. Test Automation

8.1.1 8.1.1.1. Postman Automation For Registry

 The new branch https://github.com/NASA-PDS/registry/tree/multitenant was created for I&T Automation for the Registry/Registry-API. We added new tests to Postman collections and then export and checkin to the branch. We ran the docker compose command and the tests in the collection was run and results reported to TestRail https://cae-testrail.jpl.nasa.gov/testrail/index.php?/cases/results/2488821.

8.1.2 8.1.1.2. LDDTool Test Automation

The new branch https://github.com/NASA-PDS/pds4-information-model/tree/Issue714-LDDTool-Tests was created for I&T Automation for lddtool. The testing framework as been developed, but tests still need to be added.

9 9. Test Case Explanations

- feedback-widget#18[3]: partial pass - Users can submit feedback successfully, but they receive a false error message indicating there was an issue sending their feedback.
  - new ticket created to address this: https://github.com/NASA-PDS/feedback-widget/issues/22

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3 https://cae-testrail.jpl.nasa.gov/testrail/index.php?/tests/view/8449648

10 10. 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 14.1 can be found in the software release catalog[4].

Open action to review this with TBD person from MGSS for specific requirements and tools to do so (e.g. SLOC).

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4 https://nasa-pds.github.io/releases/14.1/index.html

11 11. Open Defect Summary

Rating	Definition	Opened Since Previous Release	Known Open Bugs
Critical	Defect makes the SW unusable for mission operations. Major functions do not work or fail over the course of normal operations.	0	0
Major	Defect has significant impact on usability of delivered software for mission operations. User experience is difficult and/or cumbersome. Workaround available is arduous.	2	1
Moderate	Defect has moderate to mild impact on usability of delivered software for mission operations. User experience is degraded but workable.	4	47
Minor	Defect means software does not work as originally intended, but the defect has little impact on the usability of the delivered software.	0	59

[Defect Tracking Metrics](#)[5]

All known bugs with possible work-arounds for users are available on the release notes for each released component. https://nasa-pds.github.io/releases/14.1/index.html

Critical or Major Open Bugs

Bug	Comments
[NASA-PDS/deep-archive#164](#)[6] Deep archive working with registry produces unexpected results with primary vs secondary products	This issue was found by user later during I&T. We are working a solution and will put out a point build at time of completion. Issue only affects small subset of data.

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5 https://docs.google.com/spreadsheets/d/1PH4DhOmCFiIM_spthNcwOFl224Twlg0Rz4amkluYGLY/edit?usp=sharing
6 https://github.com/NASA-PDS/deep-archive/issues/164

12 12. Action Item Status

1. [MGSSAITS-1204](#)[7] Setup Meeting to determine official PDMS document repository   - Completed and Closed.

2. [MGSSAITS-1205](#)[8] Meet wi Mike Pajevski to discuss Semmle scans on java script   - Completed and Closed.

3. [MGSSAITS-1206](#)[9] PDS should follow MGSS standard for reporting defects at a DDR - Completed and Closed.

4. [MGSSAITS-1722](#)[10] SQA: PDS 14.0 DDR: The task should update the software Classification record

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7 https://jira.jpl.nasa.gov/browse/MGSSAITS-1204
8 https://jira.jpl.nasa.gov/browse/MGSSAITS-1205
9 https://jira.jpl.nasa.gov/browse/MGSSAITS-1206
10 https://jira.jpl.nasa.gov/browse/MGSSAITS-1722

13 13. Deviations

See validated deviation from the plan[11].

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[11] https://github.com/NASA-PDS/pds-swg/issues?q=label%3AB14.1+label%3Achange-request+

14 14. Security Impact Analysis

Network security	
Confirmation that existing ports were reviewed and disabled if no longer needed:	Confirmed by S. Neely on 05/29/2024
Description of additional ports required in release:	Data Upload Manager Security Impact Analysis[12]
Description of security of additional ports (encryption, authentication, etc]:	Data Upload Manager Security Impact Analysis[13]
Software security	
Software scan date and method:	https://github.com/NASA-PDS/software-issues-repo/issues/93
Critical and High vulnerability mitigation:	https://github.com/NASA-PDS/software-issues-repo/issues/93

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12 https://wiki.jpl.nasa.gov/display/PDSEN/Data+Upload+Manager+Security+Impact+Analysis
13 https://wiki.jpl.nasa.gov/display/PDSEN/Data+Upload+Manager+Security+Impact+Analysis