PDS-NSSDC I/F Beta-Test

Engineering Node

Mar 12, 2007
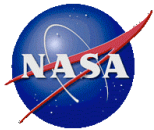
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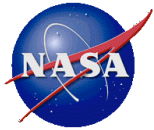
Topics

- Engineering Node Test Summary

- Test Procedure

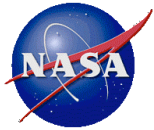- Software & Documentation

- Plan & Schedule

Engineering Node Test Summary

- Currently testing version v6-alpha of NSSDC's Multi-File Package Generator and Analyzer (MPGA) software.
  - We technically consider this the beta version, waiting for installation procedures.
  - The production-ready version is still in the works.

- Current Test Status
  - Currently testing on a 32-bit machine running RedHat Linux.
  - Packaging two volumes (dmgsc_1001 and dmgsc_1018) of the MGS-M-MOC-NA/WA-2-SDP-L0-V1.0 dataset.
  - Both packages have been packed, unpacked and verified at the EN.
  - Waiting for the packages to be returned from NSSDC for final unpacking and verification.
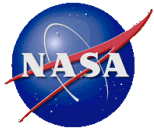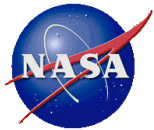
Test Procedure

- **Select volume and perform checksum**
  - Since we are limited to FTP transfer of AIPs, volumes of 4 gigabytes or less would be preferred.
- **Create AIP at Node**
  - Utilize the MPGA software to create the AIP.
- **Transfer AIP to NSSDC**
  - FTP the AIP file to the NSSDC server.
- **Notify NSSDC**
  - Send an e-mail to Pat McCaslin and specify the name and location of the AIP on the FTP server.
- **Retrieve and Store AIP at NSSDC**
  - This step is performed by NSSDC.
- **Retrieve and repack the volume and notify Node**
  - This step is performed by NSSDC. Pat will send an e-mail to the Node to let them know the name and location of the repacked AIP on the FTP server.
- **Transfer AIP to Node**
  - FTP the AIP file from the NSSDC server.
- **Unpack and Verify AIP**
  - Unpack the volume with the MPGA stripper application and check against the original checksum values.

Software & Documentation

- NSSDC Interface EN webpage at:

  - http://pds-engineering.jpl.nasa.gov/index.cfm?pid=100&cid=66

- Documentation posted:

  - EN Initial Test Plan and Reports
  - EN latest Test Report

- Documentation to be posted:

  - Beta-Test Plan and Procedures
  - Installation Procedures

- Current version of Software Package

  - Email to Nodes

Plan & Schedule

- Plan
  - Participants: ATMOS, IMG, SBN, NSSDC
  - Progress to be reported at the F2F MC (Mar 28-29, 2007)

- Schedule
  - Beta-Test Telecon (Mar 12, 2007)
  - Beta-Test Installation Procedures and Software Package sent to the Nodes (The week of Mar 19, 2007)
  - Beta Test by the Nodes (Apr 13, 2007)
    - Install
    - Execute test
    - Generate test report and email to EN
  - Post-Beta Test Status Telecon (The week of Apr 16, 2007)