

NSSDC Delivery Working Group (NDWG)

PDS Management Council Meeting

Flagstaff

July 2008

http://pds.nasa.gov





Topics



- Status
- Next Steps
- Option
- Backup
 - Submission Process
 - Retrieval Process
 - Replacement Process



Status



- Developed processes to submit, retrieve and replace archive volumes
 - Data will be sent via "data brick"* to the NSSDC*
 - NSSDC will be responsible for transferring the data from the data bricks to their archive system
- Defined delivery and submission manifests that include checksums and description of the volumes and submission
- NSSDC provided software to generate submission manifests
- NSSDC has received test data bricks from both Geosciences (MRO/CRISM) and Imaging Nodes (ODY/THEMIS)

^{*} NSSDC is planning to eventually extend this to include electronic delivery



Next Steps



- Complete testing (July 2008)
- Prepare operational release (July 2008)
 - Installation Guide
 - Users' Guide
 - NSSDC Submission Manifest Generation Software
- Perform Beta Test (August 2008)
- Start NSSDC delivery (September 2008)
- Develop QQC process on deep archive (October 2008)
 - Adopt data integrity requirements for auditing
 - A mutual procedure for checking will be instituted



Option



- Nodes to consider redelivering their entire holdings to NSSDC
 - Addresses migration of old data on physical media
 - Synchronizes PDS and NSSDC's inventory



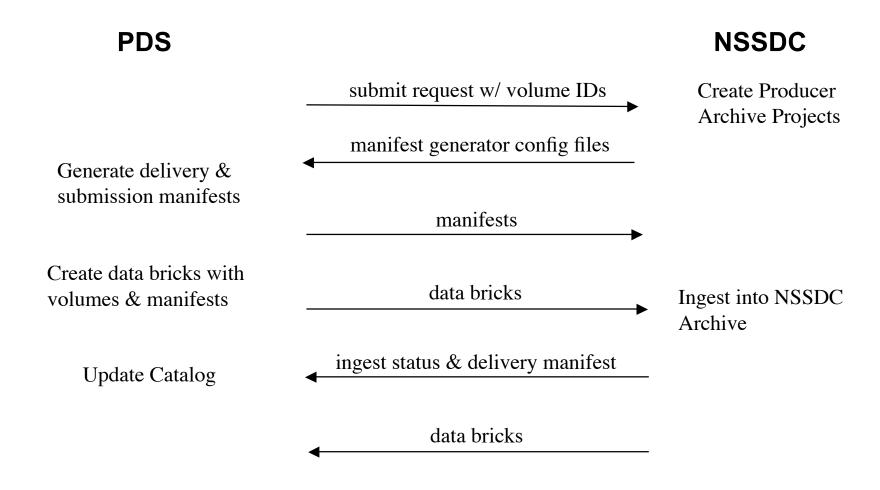


Backup



Submission Process - 1







Submission Process - 2

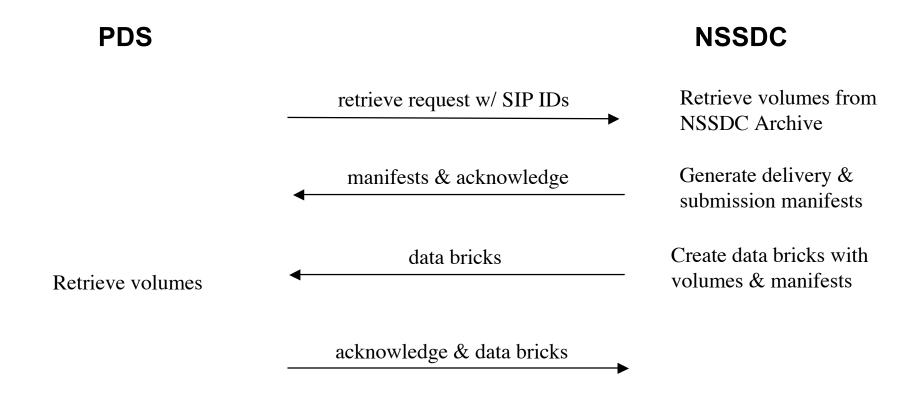


- 1. PDS Node sends submission request w/ volume IDs to NSSDC
- 2. NSSDC provides manifest generator configuration files (containing Producer Archive Project IDs) to PDS Node
- 3. PDS Node generates Delivery and Submission Manifests and sends them to NSSDC
- 4. PDS Node builds data bricks with volumes and manifests
- 5. PDS Node sends data bricks to NSSDC
- 6. NSSDC ingests volumes into NSSDC archive system
- 7. NSSDC sends Delivery manifests and ingest results to PDS Node and EN
- 8. NSSDC returns data bricks to PDS Node
- 9. EN updates catalog



Retrieval Process - 1





^{*} Retrieval Process not fully defined yet



Retrieval Process - 2

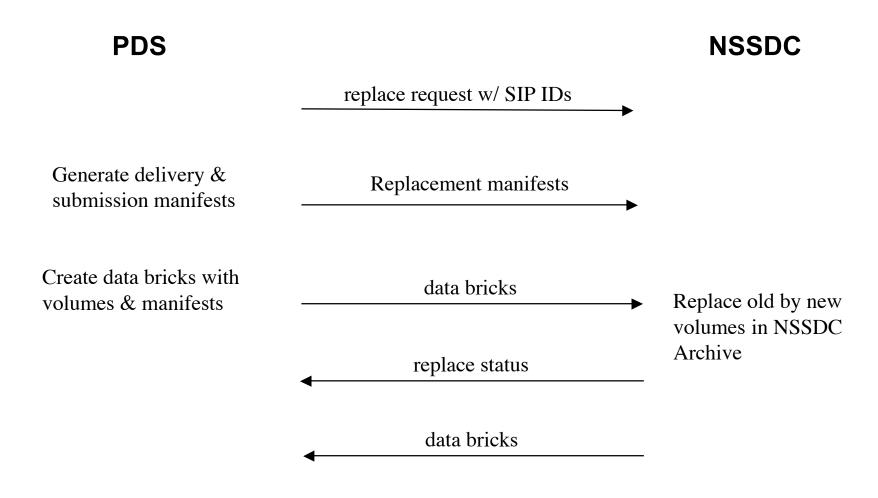


- 1. PDS Node sends retrieval request w/ SIP IDs to NSSDC
- 2. NSSDC retrieves corresponding volumes from NSSDC archive
- 3. NSSDC generates Delivery and Submission Manifests and sends them to PDS Node
- 4. NSSDC builds data bricks with volumes and manifests
- 5. NSSDC sends data bricks to PDS Node
- 6. PDS Node retrieve volumes
- 7. PDS Node acknowledges and returns data bricks to NSSDC



Replacement Process - 1





^{*} Replacement Process not fully defined yet



Replacement Process - 2



- 1. PDS Node sends replacement request w/ SIP IDs to NSSDC
- 2. PDS Node generates replacement Delivery and Submission Manifests and sends them to NSSDC
- PDS Node builds data bricks with replacement volumes and manifests
- 4. PDS Node sends data bricks to NSSDC
- 5. NSSDC replaces the volumes in NSSDC archive system
- 6. NSSDC sends replacement results to PDS Node
- 7. NSSDC returns data bricks to PDS Node