

Operations Report

PDS Management Council Meeting

Flagstaff, Arizona

August 2006

http://pds.nasa.gov





Topics



Catalog Cleanup

- Data Set Reconciliation Progress
- Discrepancy Causes
- April 2006 Summary
- July 2006 Summary
- Proposed changes

Process Improvement

- Ingest Process
- Release Process
- Keyword Approval Process

Performance Monitoring

- System Performance
- Monthly Summary
- Link Check



Catalog Cleanup - Reconciliation Progress



Catalog/DN data holding reconciliation

- Wrote program to extract data holding info from GEO, PPI and SBN, compared with Catalog, generated and reported discrepancies to GEO, PPI and SBN (Jan-Feb 2006)
- Generated reports for other Nodes (Mar-Apr 2006)
- Worked with Nodes to investigate initial discrepancies (Mar-Apr 2006)
- Posted April reports and status for each Node on EN web page (Apr 2006)
 - http://pds-engineering.jpl.nasa.gov/index.cfm?pid=3&cid=69
- Updated program to query SBN & RINGS product server
- Re-generated reports for all Nodes (Jul 2006)
- Continued working with Nodes to resolve discrepancies
- Posted July reports and cumulated status for each Node on EN web page (July 2006)



Catalog Cleanup - Discrepancy Causes



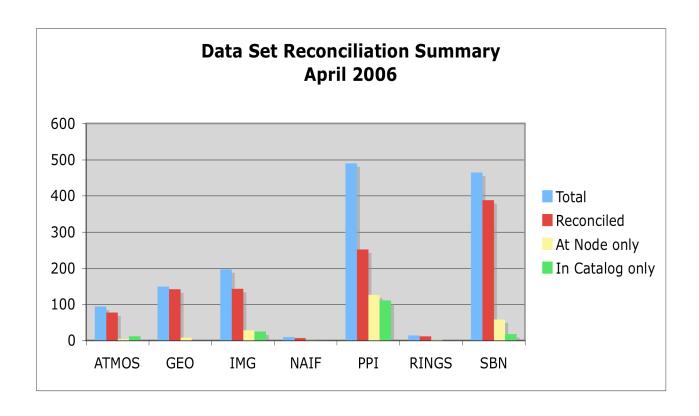
Main reasons causing the discrepancies

- Data Set to be ingested PDS Catalog
 - Catalog files yet to be given to EN
- Data Set in peer review or lien resolution state
 - In PDS Catalog, but not archived at Nodes
- Special product not to be included into PDS Catalog
- Data Set stored off line at Nodes only
- Erroneous data set ID
- Archive status not up-to-date
- Multiple data set IDs for the same data set
- Superseded data set
- NSSDC IDs not up-to-date
- Backup resource not up-to-date



Catalog Cleanup - April 2006 Summary



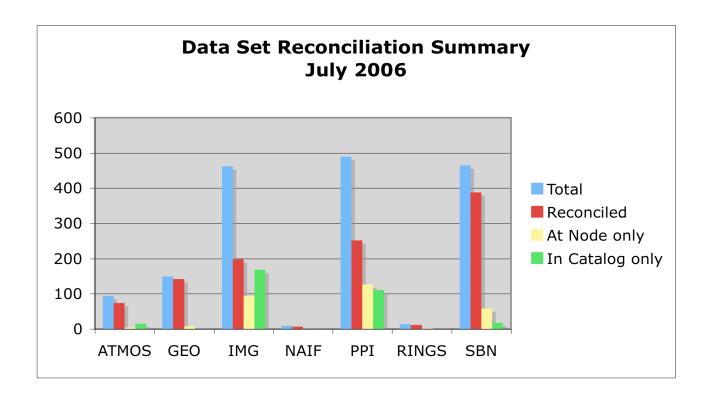


	ATMOS	GEO	IMG	NAIF	PPI	RINGS	SBN
Total	95	150	197	9	490	14	465
Reconciled	78	142	143	7	252	12	389
At Node only	5	8	29	1	127	2	58
In Catalog only	12	0	25	1	111	0	18



Catalog Cleanup - July 2006 Summary





	ATMOS	GEO	IMG	NAIF	PPI	RINGS	SBN
Total	95	150	196	9	490	14	465
Reconciled	74	142	145	7	252	12	389
At Node only	5	8	27	1	127	2	58
In Catalog only	16	0	24	1	111	0	18



Catalog Cleanup - Proposed Changes



Local Archive -> Archive

- No policy stipulates when archive status changes from "Local Archive" to "Archive"
- Proposed change
 - Change occurs when NSSDC ID (provided by Node) is ingested into PDS Catalog

Superseded Data Sets

- Superseded data sets are not searchable nor viewable
- Proposed change
 - Update revision notes of the superseded data sets
 - Provide an option to search and view the data sets
 - Provide link to the data set that succeeds it



Process Improvement - Ingest Process



Ingest process

- Reviewed and documented current process (Feb-May 2006)
 - Focused on standardizing ingestion process across EN
 - Identified potential "work around" to difficult / sizeable effort tasks
 - Developed script to initialize / rebuild DE database
 - Modified ingestion tool to auto-create result report
- Near term improvement
 - Build tool to compare catalog files to be ingested against cataloged data and report if differ or identical
- Longer term improvement
 - Automate Ingest process, a development task to start in FY07 (currently in EN over-guide POP)



Process Improvement - Release & Keyword Process



Release process

- Drafted current process (Jul 2006)
- Next Step: Focus on identifying difficult / sizeable effort tasks and areas that can be streamlined (Aug 2006)

Keyword approval process

- Examine current process (Jul 2006)
- Draft an enhanced process (Jul 2006)
- Prototype a keyword tracking tool (Aug 2006)
- Review by Nodes (Aug-Sept 2006)



Performance Monitoring - System Performance

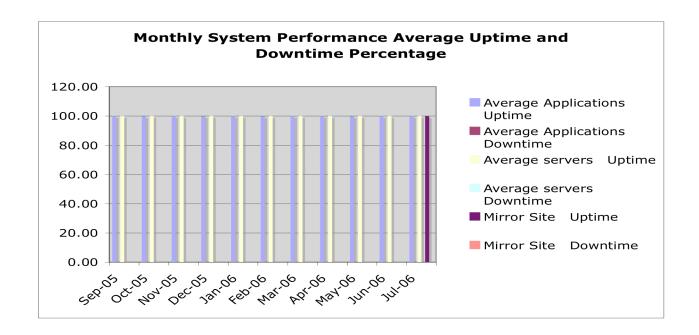


- Automated System Monitoring
 - EN servers
 - EN applications
 - Mirror Site
 - Nodes product servers
- Monthly reports on EN site
 http://pds-engineering.jpl.nasa.gov/index.cfm?pid=6&cid=30
- Proven high availability (mostly 99.9x to 100% uptime)
- A few below 99.9% due to
 - Pasadena City power failure
 - JPL network failure
 - Mirror Site network failure
 - Transient server overload









	Average Applications		Averag	je servers	Mirror Site		
	Uptime	Downtime	Uptime	Downtime	Uptime	Downtime	
Sep-05	99.97	0.03	100.00	0.00			
Oct-05	99.92	0.08	100.00	0.00			
Nov-05	99.96	0.04	100.00	0.00			
Dec-05	99.81	0.19	100.00	0.00			
Jan-06	99.97	0.03	100.00	0.00			
Feb-06	99.77	0.23	100.00	0.00			
Mar-06	99.98	0.02	100.00	0.00			
Apr-06	99.93	0.07	99.95	0.05			
May-06	99.83	0.18	99.98	0.02			
Jun-06	99.95	0.05	99.99	0.01			
Jul-06	99.98	0.02	99.94	0.02	99.833	0.067	



Performance Monitoring - Link Check



- Link Check completed in July 2006
 - Performed verification using Web Link Validator by REL
 - · PDS Home website
 - EN website
 - PDS Catalog resource links
 - ATMOS website
 - · GEO website
 - · IMG website
 - NAIF website
 - RINGS website
 - PPI website
 - SBN (Maryland and PSI) websites
 - Results reported to Nodes
 - Broken links were fixed
 - Reran verification
 - Reports posted on EN site
 http://pds-engineering.jpl.nasa.gov/index.cfm?pid=6&cid=43
- Next Link Check schedule: February 2007