



Knowing what we are flying/ testing

Mission Configuration Repository Demo 10-17-2012

N. Lindsey, Code 322 301-286-2047



Mission Configuration Process Improvement



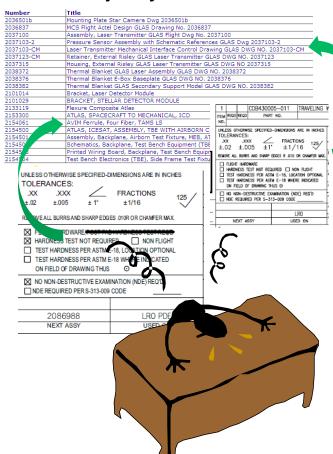
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300 created a perpetual archive of Mission Configuration to give context to experience data.

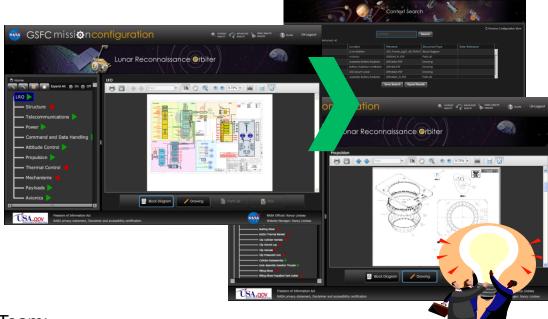
Resulting in an optimized system that can acquire to data routinely from Mission CM Systems and provide access to that data within and across missions using both project and standard nomenclature.

https://gsfcmissionconfiguration.gsfc.nasa.gov

Before: Project System Data Searches



Now: Mission Configuration Data Searches



Team:

Nancy J Lindsey – Mission Configuration Architect/POC

Orson N John – Mission Configuration Data Analyst

Anthony DiVenti – Mission Configuration Sponsor/Reliability Branch Chief

Nancy Rackley – B-Line Express Mission Configuration Development

Program Manager with Developers: Feng Na, Colleen Hoffmeister, Katedra Hackett, Andrew Mauer

& Diana Barnes

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Capabilities



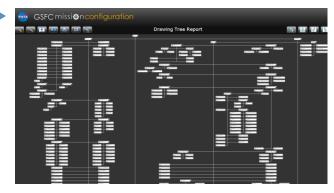
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Current Status:

- With Standard Taxonomy & as-built data, GSFC can predict more accurate/ flight-based/ realistic failure rates/modes to better assist in risk informed decision making;
- GSFC Advisory data searches becomes possible;
- Searching by Vendor/Part Number becomes possible;
- Create Drawing Trees from drawing data autonomously >>
- Impact/Value resulting from new process:
 - ✓ Data Gathering Process step reduction from:
 - ∞ to <10 steps
 - ✓ Enhancing Accuracy of : failure rates prediction operational anomalies/testing execution, etc.
 - ✓ Cost avoidance by: Heritage Knowledge & Lessons Learned sharing
- And More

Moving Forward

- Mission Configuration is Operational and ready to import more orbital and developmental mission data.
- LDCM-TIRS data has been readied during this past summer for importing.



Full Capability Realization Depends on Mission data/support.

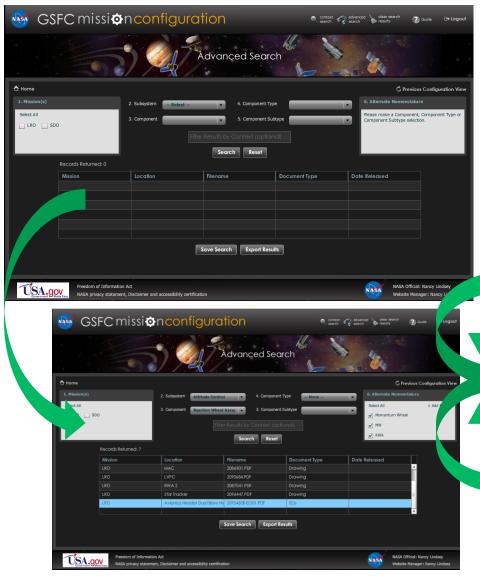


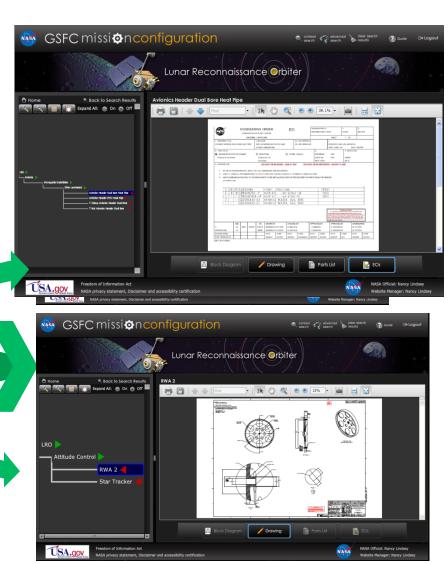


mission configuration



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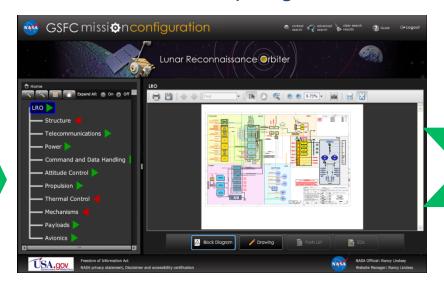


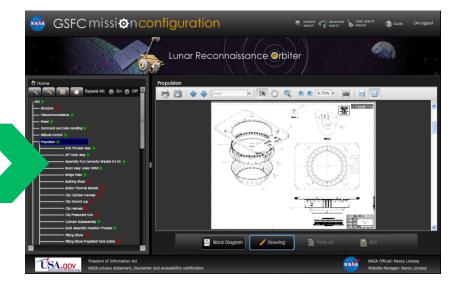
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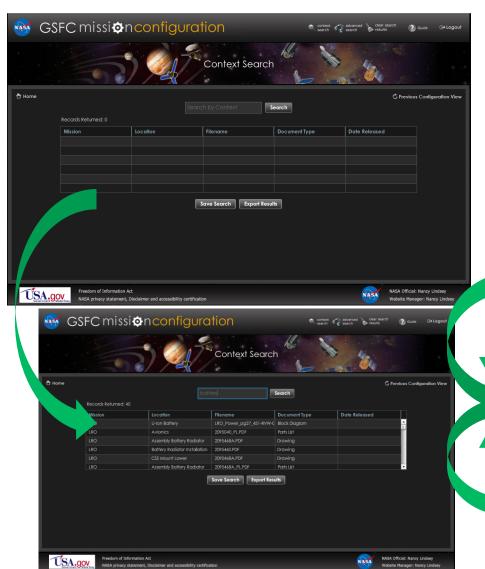


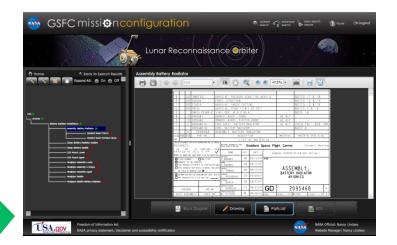


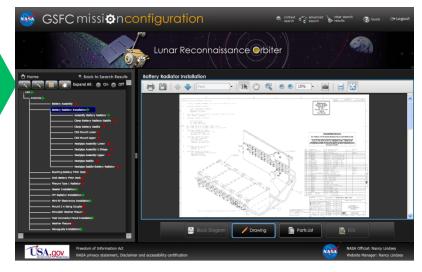
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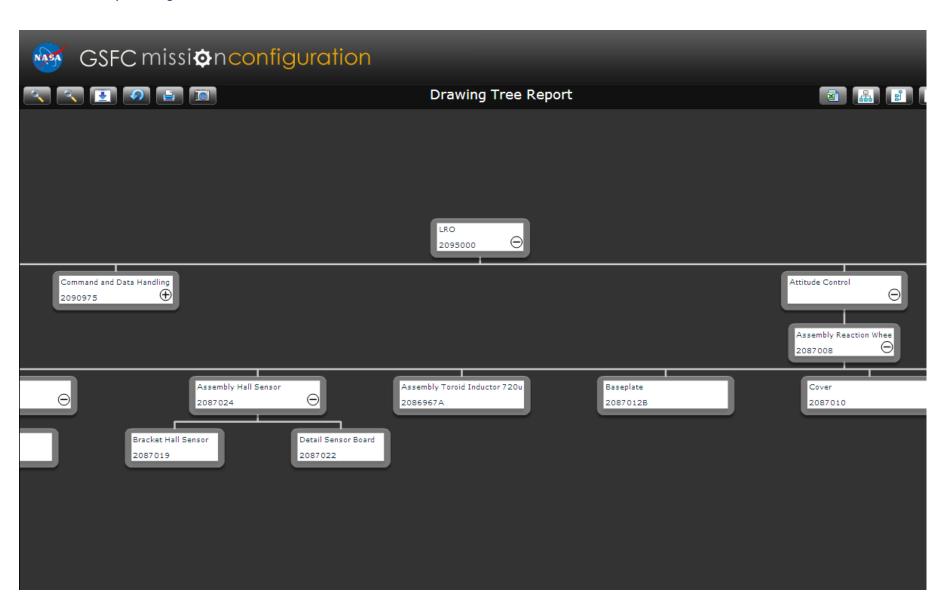








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QUESTIONS