In-flight monitoring and analysis

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Overview

- No detailed planning beyond what is written up in SMEX CSR

- Two-step monitoring system:
  - low-level display of data pipe;
    - verify data stream quantity and content
  - monitoring and analysis utility;
    - displays instrument status
    - provides basic RF view of the instrument
    - rudimentary event reconstruction on request
Display Concept
Talking points

• Minimum requirements for engineering test
  – low-level monitor required
  – interactive display level of functionality
    • event info, payload location ✓
    • temperatures and pressures ✓
    • RF data, raw display ✓
    • RF data, processed display ?
    • payload interactive ?
    • Reconstructed event display x
Event reconstruction algorithm

- Depends on continued analysis of ANITA-lite data **AND** realistic MC signal data
  - MC must provide ability to generate time domain data
- Issue of responsibility...who and when