SDI GRB Appliance

The University of Wisconsin-Madison Space Science and Engineering Center (SSEC) is pleased to announce the availability of the SDI GRB Appliance. The SDI appliance is a complete solution for processing the GOES-R GRB data stream into mission-compliant netCDF files available via your network. The SDI appliance combines CSPP Geo software with RabbitMQ, SFTP and ADDE technologies to provide a hands-off network appliance solution for acquiring and serving GOES-R data.

CSPP Geo GRB software converts GOES-R GRB data stream into mission compliant netCDF files

- 16-channel Advanced Baseline Imager (ABI) Level 1b
- Geostationary Lightning Mapper (GLM) Level 2+
- Space Environment In-Situ Suite (SEISS) Level 1b
- Magnetometer (MAG) Level 1b
- Solar Ultraviolet Imager (SUVI) Level 1b
- Extreme Ultraviolet and X-ray Irradiance Suite (EXIS) Level 1b

AMQP Event Notifications via RabbitMQ service

- Data availability notifications, no need to poll
- Example client-side script for UNIX systems included

SFTP / NFS file access

- GRB netCDF products available via SFTP or NFS
- Application software logs available via SFTP

McIDAS ADDE access (optional)

- 16-channel ABI Level 1b netCDF files available via ADDE
- GLM Level 2+ product available via ADDE

Additional Benefits

- System configured and operationally tested at SSEC/CIMSS
- Support for both local area and air-gapped networks
- System installation / restore accomplished with USB stick

Processing Hardware

- Software installed on standard Dell hardware
- Hardware sized to match processing requirements of software
- Storage sized to accommodate seven days of data

Pricing - Appliance + Technical Support + Antenna System

- Appliance options:
  - BASIC: $25,000 (includes appliance, ingest software, and 1-year technical support)
  - ADDE: $30,000 (includes BASIC items + ADDE software)
- Technical support options (fees begin one year after delivery):
  - BASIC: $1,500/year (includes system updates and ingest software updates)
  - ADDE: $5,100/year (includes BASIC items + ADDE software updates)
- User must supply input from a data stream provider like Satellite Data Services at SSEC or from an antenna system providing demodulated GRB packets via direct gigabit Ethernet connection to the SDI GRB Appliance.

For technical information, contact Scott Mindock: (608) 263-0552 or sdi-info@ssec.wisc.edu
To make an order or request a quote, contact Becky Schaffer: (608) 263-6141 or sdi-info@ssec.wisc.edu