

Release B CDR RID Report

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Document CDR

RID ID	CDR	69
Review	Release B CDR	
Originator Ref	CL-0415-1	
Priority	2	

Section

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Figure Table

Category Name Ingest (INS) Design **Actionee** ECS

Sub Category

Subject Canceling & suspending runaway ingest processes

Description of Problem or Suggestion:

Cancel/suspend takes effect on the next request/granule/file boundary, yet is often done to handle a runaway process. We need to be able to cancel/suspend in a way that kills/stops existing processes.

Originator's Recommendation

Develop a cancel-now/suspend-now functionality that will also kill/stop existing processes.

GSFC Response by:

GSFC Response Date

HAI S Response by: C. Gire

HAI S Schedule

HAI S R. E. C. Gire

HAI S Response Date 7/10/96

Agree with RID problem description.

ECS will investigate two levels of control—Unix process level and DCE thread level.

MSS currently provides a capability (the ECS Process Framework) to monitor and control managed processes. Automatic Network Ingest, Polling Ingest, Ingest Request Manager and Ingest Granule Server processes are all managed processes. Operations staff can identify a runaway process by viewing an MSS display indicating machine resource utilization (e.g. cpu, I/O). Operations staff can then use MSS to shut down the runaway process. Requests which have not completed checkpointing will need to be resubmitted. Other requests may be recovered.

ECS will also investigate the feasibility of providing a thread (request or granule processing thread) abort capability. If the runaway process is a multi-threaded process (e.g. Ingest Request Manager or Ingest Granule Server), the problem may lie in a DCE thread that is processing a specific request or granule. However, if a process thread is using excessive resources, it may not respond to an externally sent thread abort request. ECS will investigate these scenarios to determine what level of thread control is available. Ingest will also investigate how operations can identify which thread is causing resource utilization problems. These investigations will be completed by October and a summary report prepared for the Release B GUI workshop II.

Status **Closed**

Date Closed 7/17/96

Sponsor **Kobler**

***** Attachment if any *****