

Release B CDR RID Report

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Document

RID ID	CDR	15
Review	Release B CDR	
Originator Ref		
Priority		

Section

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Figure Table

Category Name MSS Design

Actionee ECS

Sub Category

Subject Comprehensive views of management information

Description of Problem or Suggestion:

There are a number of management data bases, COTS Management Information Bases (MIBs), Custom MIBs, and specialized/extended custom MIBs scattered throughout the MSS, as well as throughout the resources/services managed by MSS in FOS, SDPS, CSS, ISS, MSS (including local management systems that create aggregated/summarized management information for feed to SMC), and potentially elsewhere. It is not clear:

- 1) what are all the specific resources and services throughout the Release B environment that are manageable by MSS
- 2) where management information pertinent to each specific managed resource/service is defined,
- 3) what are all the cross MIB consistency requirements (e.g., how is consistency maintained and ensured, e.g., between HPOV and Tivoli maps),
- 4) whether tools and/or procedures exist (and if so what are they) for extending each MIB or management data base, and
- 5) how difficult it is to update/add/delete management information definitions.

(Note: DAACs need to understand many of the above matters as there are potential operability and staffing implications.

Originator's Recommendation

- 1) ECS should develop a "Management Information Catalog".

[NOTE: The contents of this catalog should include synopsis items such as:

(a) lists of all the kinds of resources (e.g., hosts, routers, applications, non-traditional "resources" such as MIBs of aggregated/summary management information for feed from one manager to another, etc.) and services (e.g., email service, bulletin board service, search & order service, etc.) managed by MSS,

(b) lists identifying and synopsising (e.g., by stating the purpose of management information) all COTS MIBs and all custom and/or specialized/enhanced managed objects supported by MSS,

(c) charts identifying the inheritance relationships and physical containment relationships among all such above management information (Note: the containment relationships should include identifications of where each managed object is instantiated),

(d) identifications of the source documents in which all COTS MIBs and all custom/specialized managed objects are defined,

(e) identifications for each item of management information as to: (1) where it is created, (2) all places where it is stored throughout its lifecycle, (3) all places (including, e.g., specific management applications) where it is used (and/or linked to operations) throughout its entire lifecycle,

GSFC Response by:

GSFC Response Date

HAIS Response by:
Date Printed: 7/16/96

A. Gary

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HAIS Schedule

Official RID Report

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HAIS Response by: A. Gary

HAIS Schedule

HAIS R. E. A. Gary

HAIS Response Date 6/3/96

ECS will provide the comprehensive view of management information in the "CSMS Database Design and Database Scheme Specification for the ECS Project", DID311. The May 96 delivery of this CDRL incorporates comments received from the government on the prior version and has undergone changes to reflect the expanded analysis and database design. It is recognized the this CDRL will be a living document and will continue to evolve as the data models are implemented (Ref, DID311, Section 1.3). Appendix C of the May 96 delivery of the DID311 discuss ECS's future directions on the contents of this document to address these concerns.

Problem #1:

what are the specific resources and services managed by MSS?

Response #1:

The specific resources and services managed by MSS are being defined at this time in MSS-A and MSS-B. This list will be provided to ESDIS for review by 6/15. The final list will documented in the DID-311, Sec 7.

Problem #2:

where management information pertinent to each specific managed resource/service is defined?

Response #2:

The definition of each managed resource/service is/will be defined in the DID-305 Vol 39 and DID-311 Sec 7.

Problem #3:

what are all of the cross MIB consistency requirements?

Response #3:

The cross MIB consistency requirements will be keep to a minimum by restricting Tivoli/TME and HP-OV management domain. Tivoli managed resources will be COTS applications and operating system resources. HP-OV managed resources will be network devices and ECS custom applications/services. Where their is overlap the managed object unique object_id will ensure consistency.

Problem #4:

whether tools and/or procedures exist for extending each MIB?

Response #4:

Yes, the design of the EcAgManager Class provides this capability. The purpose and definition of this class with an example is defined in the DID-305-029-002, page 4-38.

Problem #5:

how difficult it is to update/add/delete management information definitions?

Response #5:

The MSS design of the EcAgManager Class was provided to make this very easy for the application programs to specify their specific management attributes. MSS has conducted several workshop to instruct ECS developers on its use.

Status Closed

Date Closed 6/10/96

Sponsor Moore

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