

222-TP-011-001

ECS Release B Level 4 Requirements Workshop Issues

Technical Paper

Technical Paper—Not intended for
formal review or government approval.

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Appendix Release B Workshop L4 Issues List

1. Introduction

1.1 Purpose

The purpose of this Technical Paper is to report the disposition of issues identified during the Release B Level 4 Requirements workshop. The workshop was held July 25 to 27, 1995. In addition to the complete list of issues in the appendix, various summaries are given to describe the issues along with several major plans or actions which have been under taken to close remaining issues. This document is being prepared to provide the status of L4 Issues for the Release B Incremental Design Review (IDR). Base on the analysis in this paper, there are nine open issues and activities related to the Release B Level 4 requirements as identified in section 2.4.

This paper does not require formal Government review or approval. Questions regarding technical information contained within this Paper should be addressed to George Percivall, 301-925-0368, gperciva@eos.hitc.com. or Mac McDonald, 301-925-0364, mac@eos.hitc.com.

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1.2 Document Organization

This paper is organized as follows:

- Section 1 Introduction - Describes the purpose of this document, and its method of approval and control.
- Section 2 Level 4 Requirements Issues - Describes the Level 4 Requirements workshop, several summaries of the L4 issues, and plans for closing issues which are open as of IDR.

2. Level 4 Requirements Issues

This section provides summaries of the Level 4 requirements issues. Open issues as of the IDR are identified. The final section provides an analysis which consolidates the open issues into nine issues and associated plans.

2.1 Release B Level 4 Requirements Workshop

A workshop was held on July 25, 26 and 27, 1995 to review first drafts of the Release B of Level 4 Requirements. The e-mail announcement for the workshop is shown in Figure 2-1.

The materials presented at the review are contained in Document 728-PP-001-001.

During the workshop, issues were identified and if not resolved during the workshop, they were recorded. It is these issues and their subsequent resolution that is the subject of this white paper. The complete list of issues is presented in the Appendix of this document.

As presented at the beginning of the workshop, the process for identification and resolution of Workshop Issues is shown in the following steps:

- Reviewer communicates comment to Developer or Cognizant Engineer
- Developer acknowledge comments and responds
- If Reviewer determines more action is required, comment is identified as an issue and added to issues list
- Issues list developed from
 - Issues sent via e-mail
 - Issues identified during workshop
 - Issues carried over from previous workshop (SDPS Level 4 Requirements Workshop held December 1994)
- Issues list tracked as a metric at monthly customer program review

The majority of issues have been resolved by modification of Level 4 requirements. The resulting Level 4 requirements were delivered for IDR in the Release BSDPS/CSMS Requirements Specification (Document 304-CD-005-001). Several other major methods for closing the requirements are discussed in section 2.4. The disposition of all issues is recorded in the list of issues in the Appendix of this document.

ECS Release B Level 4 Requirements Workshop Announcement

The purpose of this activity is to get DAAC and user community involvement in the Release B Level 4 requirements development process prior to establishing the Incremental Design Review (IDR) requirements baseline. The approach is to provide an early release of the Level 4 requirements to you, invite the submission of written issues, further clarify the issues via telecon, and then hold a workshop to jointly resolve the issues.

The purpose of the workshop is to discuss the issues and propose changes to the Level 4 requirements. Its purpose is not to revise the system design or the Level 3 requirements. The focus will be on Level 4 Requirements which are in development to meet the Level 3 requirements which are new for Release B. The output of the workshop will be a set of change actions against the Level 4 requirements. We will also provide an update on the actions from the last workshop.

Prerequisites:

Attendees at the telecons and workshop will be expected to have read the materials which will be posted to EDHS. The material will include draft requirements for each ECS subsystem and information on several system topics, e.g., performance and interface analysis. When reviewing this material you may wish to identify topics which you want to be covered at the workshop and "redlines" to the requirements. The topics you want covered at the workshop should be raised at the July 21 telecon (or e-mailed to Steve Marley, smarley@eos.hitc.com). Your redlines can be sent directly to the subsystem leads via e-mail or given directly to the leads during the workshop. A list of the subsystem leads and their e-mail addresses will be posted to EDHS as well.

Schedule of Events:

7/14/95 Workshop review material posted to EDHS (Do a quick search on "Workshop" to find the material)

7/21/95 Design Working Group Telecon to identify topics to focus on during the workshop

7/25/95 First Day of Workshop

8:30 Introduction and system topics (performance and interfaces)

1:00 Interoperability and Data Management Subsystems

7/26/95 Second Day of Workshop

8:30 parallel sessions:

Client Subsystem

Planning and Data Processing Subsystems

1:00 System Management Subsystem

7/27/95 Third Day of Workshop

8:30 Parallel Sessions:

Data Server and Ingest

Communications Subsystem

1:00 Hardware and Network Requirements

3:00 Wrap-up

Figure 2-1 ECS Release B Level 4 Requirements Workshop Announcement

2.2 Release B Segment Requirements Specification

The majority of the Level 4 Issues were closed by modifying requirements which became part of the Release B SDPS/CSMS Requirements Specification (Document 304-CD-005-001) which defines the SDPS and CSMS Level 4 requirements for Release B. This specification describes the Level 4 requirements, organized by subsystem and by software and hardware configuration item within each subsystem, and traces the Level 4 requirements to the parent Level 3 requirements.

2.3 Summary of Issues Identified at Workshop

Formal tracking of the list of issues was begun during the workshop. At the end of the L4 workshop 185 issues had been identified. Subsequent to the workshop, 30 issues were identified mostly stemming from e-mails sent by workshop attendees to the Hughes Team after the workshop. The total number of issues identified was 215.

2.3.1. Summary by Workshop Agenda

Issues were recorded during every session of the workshop. Table 2-1 indicates the number of issues recorded during each session of the workshop.

Table 2-1 Issues by Topic Area

Workshop Agenda	Number of Identified Issues
Performance	11
Interfaces	9
V0 data migration	3
Interoperability (IOS)	4
Data Management (DMS)	14
Client (CLS)	46
Planning (PLS)	7
Data Processing (DPS)	10
Data Server (DSS)	26
Ingest (INS)	13
Management Services (MSS)	32
Communications Services (CSS)	13
Network (ISS)	4
Other (Release B, Project, Ops Con, Hardware, RMA)	23
Total	215

2.3.2. Summary by Planned Closure Date

After the workshop, closure dates were assigned for each issue. The following dates were used for planned closure dates:

- 8/1/95 Items closed during the review of the issues.
- 8/15/95 Long lead effort needed for development material to be included in Segment Requirement Specification, or something that can be done quickly.
- 9/15/95 Items needing to be resolved for incorporation into the Segment Requirements Specification for Release B
- 10/15/95 Items needing to be resolved for presentation at the Incremental Design Review for Release B.
- 1/2/96 Items that need to be resolved by the Critical Design Review for Release B.

The number of issues per assigned closure date are listed in Table 2-2.

Table 2-2 Issues by Topic Area

Planned Closure Date	Number of Identified Issues
8/1/95	21
8/15/95	134
9/15/95	34
10/15/95	19
1/2/96	6

2.3.3. Issues open as of IDR

Table 2-2 lists the issues that are open just prior to IDR. The remaining issues are listed after the table. Other issues have been closed based on plans undertaken by the ECS Team and describe in section 2.4.

Table 2-3 lists the issues open at IDR and the plan or action described in Section 2.4 which will resolve the issue. Future discussion, i.e. IDR, and beyond will refer to the issues listed in Section 2.4 as the Release B Requirements Issue. The list shown in the appendix will be retired.

Table 2-2 Issues by Topic Area

Planned Closure Date	Number of Identified Issues
8/1/95	0
8/15/95	2
9/15/95	4
10/15/95	3
1/2/96	3
Total	12

Table 2-3 Workshop Issues open at IDR and related Consolidated Issue

No.	Description of Workshop Issue	Consolidated Issue
5	Guidance for prioritizing users within performance baselines (e.g. x2 production, etc.) has not been established	2.4.3
6	Contact NOAA for "other" users access patterns. Does Vince Troisi know a particular contact at NOAA?	2.4.1
47	Review COTS procurement process with respect to receiving early DAAC inputs. Use Autosys as an example.	2.4.9
132	Distribution of NMC data to other data production centers beyond DAO.	2.4.8
133	Migration of existing DAO data to ECS	2.4.8
134	DAO data volume/data set requirements (processing plan is 30 days per day to support final analysis and R&D)	2.4.8
142	What is the policy for exclusive use of data in light of QA issues, across the entire life span of the data.	ESDIS
149	Consumers using V0 specific subsetting and subsampling tools instead of ECS standard tools.	2.4.5
152	Does compression/ decompression make sense in places other than distribution.	2.4.9
159	Confirm the existence of requirements for ingest to extract orbit and attitude data from L0 data.	2.4.9
180	Clarify interpretation of L3 RMA requirements are hardware related exclusively (concern of Chris Lynnes).	ESDIS
211	Four level 3 requirements related to external interoperability have been identified and the corresponding level 4s examined.	2.4.7

2.4 Consolidated Issues and Related Plans

This section describes nine consolidated issues and the specific plans or actions which have already begun or will be initiated to resolve the issues. Actionees are indicated after the title of the consolidated issue. Issues from the list of workshop issues (Appendix) which relate to the consolidated issue are listed at the end of each section.

2.4.1. External Contact Plan (Steve Marley)

Issue 137 states: Review all actions requesting input from users, DAACs, and instrument teams to determine a minimal impact approach. The response to this action was labeled the External Contact Plan for Release B. The external contact plan consolidates all issues for which input from groups external to the ECS Team is required. Dates for contacting the various external groups are listed in the External Contact Plan. The dates in the External Contact Plan extend to Release B CDR. The External Contact Plan is available through the Release B Notebook on EDHS.

Workshop Issues related to this consolidated issue: 4, 6, 9, 22, 44, 66, 120, 122, 128, 130, 136, 137, 139, 160, 161

2.4.2. CIDM Incremental Requirements Plan (John Ujhazy)

The Client, Interoperability and Data Management (CIDM) Subsystems are being developed using the Incremental Development methodology. Per the Incremental track approach the L4 requirements are iterated with the delivery of increments in Evaluation Packages (EPs). What was presented at the L4 Workshop was the as-built requirements for increments previously deployed in EPs as well as look ahead requirements that will be refined as future EPs are deployed and evaluated by the user community. The CIDM L4 requirements will be updated as the EPs proceed. To that end, several of the issues identified during the L4 workshop will be resolved during the CIDM incremental development. To track the issues associated with CIDM, a separate CIDM Incremental Requirements Plan will be developed.

The CIDM Incremental Requirements Plan contains the following actions:

1. CIDM Systems Engineering will modify existing requirements or draft new requirements, as required, to address the issues raised by each of the action items.
2. The modified and new requirements will be distributed to CIDM Design and Development Engineering for review, including determination of potential impact on Incremental Track development.
3. After agreement is reached between CIDM Systems Engineering and CIDM Design and Development on the proposed requirement, the draft requirements will be submitted to the CIDM- specific NASA customer for comments.
4. After agreement is reached between CIDM and the CIDM-specific NASA customer on the proposed requirements, the proposed requirements will be submitted to ECS CCB for approval.

5. If no further work is required to satisfy an action item, the action item will be stuated as closed upon CCB approval of the proposed requirements.

6. If further work is required to close an action item , the action item status will be updated to indicate that a preliminary set of requirements were identified or developed for Incremental Development. The status will note that further requirements will be completed pending results of Incremental Track prototyping.

Workshop Issues related to this consolidated issue: 19, 22, 29, 36, 37, 41, 88, 90, 91, 100, 101, 103, 104, 105, 109, 111, 112, 114, 116, 118, 143, 182, 184, 207

2.4.3. Performance Modeling and Requirements (Steve Marley)

Subsystem static modeling was completed for IDR an included as Appendix E of the Release B SDPS/CSMS Requirements Specification. Modeling to the Configuration Item level will be done as appropriate leading to CDR. New modeling approach to address network issues will be developed to support CDR. Performance modeling status and future plans will be described in an IDR presentation. It may be necessary to handle CCRs to Appendix E of the 304 document separate from the RTM database of L4 requirements.

Workshop Issues related to this consolidated issue: 2, 3, 5, 8, 9, 10, 27,

2.4.4. Planning Requirements (Gary Forman)

This issue concerns the coordinated planning beyond PDPS, i.e., Ingest and Distribution: media, backup and restore, coordination with PDPS, maintenance, testing, cross DAAC flows. An ad-hoc team has recently been formed in ECS Team to address the development of Level 4 requirements for this topic and the related topic of SMC requirements which will be implemented by PDPS.

Workshop Issue related to this consolidated issue: 44

2.4.5. Data Type Services Matrix (Mark Huber)

The Data Type Services Matrix was delivered for IDR as Appendix F in the SDPS/CSMS Requirements Specification (304-CD-005-001). Further development of this matrix will occur leading to CDR. One particular example of further development is the meeting on November 8 and 9, 1995 at LaRC for discussion of the subsetting needs of the science community, e.g., science priorities and "historical precedents". It may be necessary to handle CCRs to Appendix F of the 304 document separate from the RTM database of L4 requirements.

Workshop Issue related to this consolidated issue: 130, 149

2.4.6. L4's for ASF Functionality (Mac McDonald)

The ECS functionality required at ASF is complicated by two factors: 1) the delivery of only part of ECS to ASF and the resultant splitting of ECS internal interfaces, and 2) the role of virtual products for higher level SAR products at ASFs.

An ICD and associated requirements white paper has been developed by the ECS Team. Some items, e.g., interfaces to the ASF photo lab, were not included. An assessment of the impact of adding these ASF DAAC specific functions to ECS is under development and will be circulated through the ECS CCB process after IDR.

To address requests for finding and requesting higher order products at ASF, a white paper is under development and will be available in draft format for IDR. The white paper proposes a set of required data items needed to produce metadata from raw signal data and explain how these metadata fields are populated. Additionally, a scenario illustrates how on-demand processing works for ASF with respect to ECS and ASF provided components.

Workshop Issues related to this consolidated issue: 31, 144

2.4.7. IP Interoperability Protocols (Mac McCreary)

ESDIS (Y. Enloe) has reviewed the traceability of four Level 3 requirements that provide interoperability between ECS and external systems. ESDIS commented that although level 4 traces are listed for three of these requirements, the coverage is incomplete or vague in most cases. ESDIS also indicates that overall the level 4 requirements do not provide for the same interoperability as the 4 level 3 requirements.

Three tasks relate to future work on this issue: 1) ESQ, 2) ASTER GDS discussions, and 3) CEOS Interoperability support. Each is discussed below.

Initial results of the Earth Science Query Language (ESQL) study will be presented at IDR. It is anticipated that the results of this study will effect the implementation of interoperability with international partners.

The ASTER/ECS ICD contains draft designs from Level 3 Interoperability between ASTER and ECS. There will be further discussions with the ASTER GDS Team, e.g., ASTER GDS representatives will be meeting with the ECS Team the day after IDR. One topic in these discussions is the interoperability protocols between ECS and ASTER GDS.

Beginning after IDR, the ECS Team will support the Committee on Earth Observations Satellites (CEOS) effort to define catalog interoperability protocol agreement between NASA and the International Partners.

Workshop Issue related to this consolidated issue: 211.

2.4.8. DAO Engineering (Bill Bass)

Three issues related to the identification of data for DAO were identified. These requirements will be identified between IDR and CDR in time to size DSS resources.

Workshop Issues related to this consolidated issue: 132, 133, 134

2.4.9. CDR Issues not Covered Above (Mac McDonald)

Several of the issues identified at Workshop were detail design issues. It was not expected that these issues would be resolved by IDR, although some were. Some of the CDR issues were

covered in one of the consolidated issues listed above. This issue is a catch-all for the remaining open CDR issues.

Workshop Issues related to this consolidated issue: 47, 142, 152, 159

Appendix

Release B Workshop L4 Issues List

The L4 Issues were captured on a portable computer during the workshop. They have been maintained over the past few months as a Filemaker Pro database. The contents of the database are listed in the remaining pages of this memo.

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
1	Performance	Operator Requirement in L4 Requirements - Role of Operator Delays in Performance Model	Jon Moses	8/1/95	Steve Marley	Duplicate of 32,48,60,154	8/1/95	Closed	
2	Performance	Push modeling uses a simple topology with bulk flow network details. This will not realistically model network problems	George Percivall	9/15/95	Mary Armstrong, Steve Marley	New modeling approach to address network issues will be developed to support CDR. Part of Performance planning	9/27/95	Closed	
3	Performance	Pull modeling is at Subsystem level and cannot provide HWCI performance constraints at the L4 level of detail	George Percivall	9/15/95	Mary Armstrong, Steve Marley	Subsystem static modeling completed for IDR (appendix E of 304 document). Modeling to CI level will be done as appropriate leading to CDR. Part of Performance planning	9/27/95	Closed	
4	Performance	Pull User input does not address K-12, University & SCF QA needs	George Percivall	9/15/95	Steve Marley	SCF QA information not received for IDR documentation. Will be incorporated into modeling post IDR. portion only. Part of External Contact Plan. K-12 information not received.	9/27/95	Closed	
5	Performance	Guidance for prioritizing users within performance baselines (e.g. x2 production, etc.) has not been	George Percivall	10/15/95	Steve Marley	Part of Performance planning. Also see issue #9.		Open	
6	Performance	Contact NOAA for "other" users access patterns. Does Vince Troisi know a particular contact at NOAA?	Vince Troisi	1/2/96	Steve Marley	Part of External contact plan		Open	
7	Performance	Provide estimate of users response time based on expected network performance as advisory information, not requirements. Purpose is to make good match of ECS and networks capabilities.	Moshe Pniel	10/15/95	Steve Marley	Not a requirements issue. Estimation of internet performance is not in the ECS system context. L4 requirements do not include Internet delay.	10/20/95	Closed	
8	Performance	Response times are presently stated as first bit to be returned. Extend to include the time to provide the entire response parameterized by size of return	Moshe Pniel	9/15/95	Steve Marley	Part of Performance planning. Issues relates to IDR presentation and not documents. Plan to close by 10/15/95. See IDR Presentation	10/20/95	Closed	
9	Performance	Review user prioritizations with science community, e.g. SWAMP. Review should include DAACs' participation.	Moshe Pniel	9/15/95	Steve Marley	Part of Performance planning. See also item #5. Closed to External Contact Plan	9/27/95	Closed	
10	Performance	Review PUSH requirements interpretation with AHWGP.	Marty Szczur	9/15/95	Steve Marley	Part of Performance planning. Input has been received. Will be presented at IDR.	9/27/95	Closed	
11	Interface	Add an interface between CLS and IOS	Chris Lynnes	8/15/95	Mark Alabastro	Captured in 222-WP-002-001 which will be incorporate into 304 document.	8/28/95	Closed	
12	Interface	Assess DAAC-CSS interface, e.g. use of CSS API for DAAC-unique functions (see #164)	Chris Lynnes	8/1/95	Mark Alabastro	Closed into 164	8/1/95	Closed	
13	Interface	Aster GDS interface to every DAAC needs to be examined	Moshe Pniel	8/15/95	Mark Alabastro	Captured in 222-WP-002-001 which will be incorporate into 304 document.	8/28/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
14	V0 Data	Does ECS have the capacity to INGEST V0 data within the given time period, i.e. the end of Rel. B?	Chris Harris	10/15/95	Tom Dopplick	Based on preliminary static analysis, release B Ingest is adequate to accommodate ingest of V0 data transfer into ECS during Release B operations. Version 0 data migration represents 10% of current capacity used for TRMM and AM-1 data ingest	10/12/95	Closed	
15	V0 Data	For V0 data sets which remain in native format and become part of ECS will a real-time conversion from native to HDF format be provided?	Chris Harris	8/1/95	Tom Dopplick	Yes, for selected set of defined formats.	8/1/95	Closed	
16	V0 Data	Identify volume of products and processing of V0 migrated data for Rel. B design purposes	George Percivall	10/15/95	Tom Dopplick	Initial volumes for Release B data sets identified for ASF, EDC, JPL, and NSIDC in DID304, Appendix E. Data volumes for GSFC, LaRC, and MSFC identified in ECS Technical Baseline.	9/20/95	Closed	
17	REQ's	Work with ESDIS to identify requirements by release especially with respect to Rel. C. Review Release Plan, e.g., BER	Debbie Blake	8/15/95	George Percivall	Rich Barbarie met with ESDIS, 8/9. See also issue 193.	8/9/95	Closed	
18	ADSRV	Should requirements be developed to SUSPEND an advertisement	Chris Lynnes	8/15/95	John Ujhazy	A requirement will be added for the ADSRV CI to provide a capability to suspend advertisements for a specified period of time.	8/15/95	Closed	
19	IOS	Revisit sections on OPS Support, Admin. functions, and DBMS to refine interface with MSS management framework, i.e. what functionality is within the client vs. within the MSS	Jon Moses	8/15/95	John Ujhazy	Closed to the CIDM Incremental Requirements Plan. Client subsystem requirements for user services functionality are being developed using user services operations scenarios. These requirements will be included in the IDR release of the L4 requirements do	8/15/95	Closed	
20	IOS	Change wording from "ECS personnel to review" to personnel to review" personnel is more general than just ECS		8/15/95	John Ujhazy	The wording of the requirement will be changed as specified.	8/15/95	Closed	S-IO-00880
21	IOS	Consider a requirement for Synchronization of replicated services for IOS.	Chris Lynnes	8/15/95	John Ujhazy	Requirements will be added to specify that databases which are distributed and replicated must provide synchronized data.	8/15/95	Closed	
22	CIDM	Review User Services Requirement Documents		8/15/95	John Ujhazy	Part of External Contact Plan. Closed to the CIDM Incremental Requirements Plan. Client subsystem requirements for user services functionality are being developed using user services operations scenarios. These requirements will be included in the IDR	8/15/95	Closed	
23	All	Review commonality of HMIs requirements across all subsystems (See also e-mail from Dan Marinelli, 7/21/95)	Sol Broder	9/15/95	Keith Bryant	Added L4's to make GUIs comply with style guide (Ver 5.1) with stipulations for custom, pre-selected GUI, and yet-to-be-selected GUI. Incorporates issue # 93. See also issue #121	9/27/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
24	CLS	Develop a requirement for advertising service to provide HTML/http compability, may be satisfied by Adv service being implemented in HTML	Chris Lynnes	8/15/95	John Ujhazy	A requirement will be added for the ADSRV to support HTML2 and HTML3 clients.	8/15/95	Closed	
25	HARDW ARE	Review consistency of hardware requirements across all CIs.	Moshe Pniel	8/15/95	Harvey Privor	Hardware requirement consistency was improved for initial Release B load into RTM (9/1). MRS will continue to refine requirements as Draft 304's are issued	9/1/95	Closed	
26	HARDW ARE	Review utilities and tools specified for hardware CI's (lex & yaac? gzip but no gtar or gmake?)	Chris Lynnes	8/15/95	Harvey Privor	Requirements for gtar and gmake will be added to existing requirement, S-DPS-61120 in SPRHW	8/22/95	Closed	
27	Perform ance	Look at Performance Requirements for Advertising Service, could it be covered by exisiting L3's	Mike Moore	8/15/95	Steve Marley (Ujhazy)	Performance requirements added to Document 304 for IDR.	9/27/95	Closed	
28	DMS	Interoperability with NON-ECS data archives and catalogs at CIESEN.	Debbie Blake	10/15/95	John Ujhazy	CIESIN will be supplied with all of the ECS non-COTS software. CIESEN interoperability would be through ECS protocols just like the other DAACs, so no IRD/ICD and no CIESIN specific L4 requirements are required.	8/15/95	Closed	
29	DMS	Rel B client should provide WEB access to the data management with the same level of functionality as V0 client	Chris Lynnes	8/15/95	John Ujhazy	The WWW client interface will be re-evaluated in PW2, and L4 requirements will be derived from the PW2 evaluation. Future work part of CIDM Incremental Requirements Development Plan	9/27/95	Closed	
30	DMS	Check to see if there is a requirement to do searches by geographic name.	Debbie Blake	8/15/95	John Ujhazy	Searches by geographic name is covered by the requirement CLS-10090. More specific requirements will be developed if needed, as the functionality is more understood.	8/15/95	Closed	
31	DMS	Map list of ASF specific functionalities from (j. Guzek) to L4's. Create ASF specific L4 requirements as necessary.	Ruth Duerr	9/15/95	George Percivall	Several meetings with ASF to review scenarios. (see also issues 64, 143, 144, 177, 209)	9/13/95	Closed	
32	DMS	Consider a requirement for the performance time for doing a LIM or DIM insert	Sol Broder	8/15/95	John Ujhazy	System performance needed to support operator activities will be reflected in scenarios in OCD 2B	9/13/95	Closed	
33	DMS	Performance Requirements on the DIM		8/1/95	John Ujhazy	Duplicate of issue #32	8/1/95	Closed	
34	DMS	Develop requirements spatial and temporal queries outside of the client, e.g. LIM, DIM, DSS.	Debbie Blake	8/15/95	John Ujhazy	New requirements to be consistent with new Appendix F (issue 130). Requirements will be added to ensure ECS servers will be able to service all types of queries submitted from the ECS client.	8/15/95	Closed	
35	DMS	Clarify if notification is by operator action from the DIM CI.	Chris Lynnes	8/15/95	John Ujhazy	A clarification will be added specifying that the DIM software sends notifications which can be invoked by operator action.	8/15/95	Closed	S-DMS-10990

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
36	DMS	Review use of the terms accounting versus accountability as accurate with respect to MSS meanings		8/15/95	John Ujhazy	Requirements will be refined as defined in CIDM Incremental Requirements Development Plan	9/27/95	Closed	S-DMS-00700, S-DMS-00710
37	DMS	Review the need for this requirement with Mike Moore with respect to incremental search	Mike Moore	8/15/95	John Ujhazy	Incorporates issue 94. Additional requirements will be added to specify incremental search. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	S-DMS-00110
38	DMS	Requirements needs clarification	Chris Lynnes	8/15/95	John Ujhazy	Variations based on context, data, and instrument will be added to the requirement.	8/15/95	Closed	S-DMS-20070
39	DMS	Review user authentication in the gateway of V0 users per the V0 ICD	Chris Lynnes	8/15/95	John Ujhazy	Requirements will be added for authentication of users.	8/15/95	Closed	
40	Protocol	Review process for updating the V0 to ECS interface as V0 design changes	Chris Lynnes	9/15/95	Debbie Blake	Changes to V0 X client after Release 6 (2/96) can not effect the protocol and will be prototype capabilities for consideration by ECS in future releases. Future changes will be made thru ESDSIS, ECS and V0 CCB to avoid disruption in interoperability.	10/20/95	Closed	
41	DMS	Review asymmetries between V0 Interoperability and NOAA interoperability requirements for the gateway, why are there more in NOAA than V0?	Chris Lynnes	8/15/95	John Ujhazy	A review of V0 and NOAA interoperability requirements is being conducted and requirements will be added/modified/deleted as necessary. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	
42	DMS	Check to see what happened to the rest of the text		8/1/95	John Ujhazy	The loader program for the requirements database cut off the end of the requirement text. The correct text has been reinserted.	8/1/95	Closed	S-DMS-20005
43	Interface	Modify interfaces table to include flows as presented by Ramsey Billups	George Percivall	8/15/95	Mark Alabastro	Flows with modifications from PDPS after the workshop are Captured in 222-WP-002-001 which will be incorporate into 304 document.	9/28/95	Closed	
44	DPS	Planning beyond PDPS, i.e., Ingest and Distribution: media, backup and restore, coordination with PDPS, maintenance, testing, cross DAAC flows	Sol Broder. Chris Harris, W. Hanson	10/15/95	Steve Marley	Part of consolidated list of issues in L4 Issues White Paper. Part of External Contact Plan. (Incorporates issue # 82, 196)	10/20/95	Closed	S-PLS-02000
45	Interface	Nodes in interface diagram concerning "planning and client" should be from "client to data server"	Lucy Lee	8/15/95	Mark Alabastro	Captured in 222-WP-002-001 which will be incorporate into 304 document.	8/28/95	Closed	
46	Interface	Interface requirements summaries should include the user and operators as explicit externals	George Percivall	8/15/95	Mark Alabastro	See also issue 23. Coordinated with Keith Bryant. Captured in 222-WP-002-001 which will be incorporate into 304 document.	8/28/95	Closed	
47	REQS	Review COTS procurement process with respect to receiving early DAAC inputs. Use Autosys as an example.	Moshe Pniel	1/2/96	George Percivall			Open	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
48	PLS	Performance requirements for generating site plan and conflict resolution between site plans and developing a coordinated schedule based upon the number of jobs per day and how long the plan is to encompass.	Jon Moses	8/15/95	Ramsey Billups	System performance needed to support operator activities will be reflected in scenarios in OCD 2B	9/13/95	Closed	
49	PLS	Review use of ECS scheduler for scheduling DAO R&D activities and allocation of DAO resources. Is there a scheduler or DAO R&D?	Sol Broder	8/15/95	Ramsey Billups	There have been several DAO/ECS meetings to discuss DAO requirements. As of 8/23/95, no new requirements have been identified relative to PDPS. Ed Larson is currently working an Ops Concept to identify DAO scenarios.	8/28/95	Closed	
50	PLS	Investigate predicting processing time base on particulars of input data, i.e., generalization of MODIS planning	Jon Moses	9/15/95	Ramsey Billups	An average will be continually kept for each PGE. The average will be updated over time. For any given run the execution could be either early or late. For MODIS, a PGE maybe 1 and 1/2 hours early or late.	9/15/95	Closed	
51	OPS Con.	Verify that OPS Concepts document includes a scenario for production calibration-validation including issue of debugging errors discovered in the DAACs and reproducing it in the SCFs	Steve Marley	8/15/95	Sharon Dennison	A Production Calibration- Validation Scenario (section 4.2.6.2) has been added to theOCD Part 2B annotated outline and will be developed.	8/2/95	Closed	
52	PLS	Revisit the wording from "do not interfere" to something like "support resource allocation to optimize", mix of operations and test	Lucy Lee	8/15/95	Ramsey Billups	Requirement wording has been changed (Old req deleted and new one written).	8/28/95	Closed	S-PLS-00740
53	PLS	Support resource allocation for algorithm upgrades, is the AI&T scheduled through planning subsystem	Moshe Pniel	9/15/95	Ramsey Billups	The requirement mentioned in the issue has been deleted. A new requirement was written: S-PLS-00741: "The PLANG CI shall separate AI&T activities from the operational production environment". AI&T will NOT be scheduled through PLS.	10/12/95	Closed	S-PLS-00740
54	DPS	Change "24 hours" to TBD	George Percivall	8/15/95	Ramsey Billups	These Rel A requirements will be modified to reflect the TBD time (less than 24 hours).	8/28/95	Closed	S-DPS-60350, 60, 70
55	DPS	Clarify L4 Requirement, take vagueness out	Moshe Pniel	8/15/95	Ramsey Billups	This Rel A requirement is being re-written for Rel B to remove any vagueness.	8/28/95	Closed	S-DPS-20910
56	DPS	Investigate need for requirements for hard allocation of processing resources, i.e. fair share scheduler	Lucy Lee	9/15/95	Ramsey Billups	The DAACs were queried about the need for Fair Share Scheduling. The resulting consensus was that it is NOT needed.	10/12/95	Closed	
57	DPS	API requirement missing from the L4 requirements	Dan Marinelli	8/15/95	Ramsey Billups	This requirement was not included in the PDPS L4 reports due to the fact that it contained no Release allocation within RTM. This problem will be corrected within RTM	8/28/95	Closed	S-DPS-20010

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
58	PLS	Review QA requirements in DPS and PLS, e.g. scheduling of manual operations	Vince Trosi	9/15/95	Ramsey Billups	There is no impact on normal production processing because manual QA is an off-line activity involving the Data Server subscription service that responds to data product requests and provides notification of generated data products.	9/15/95	Closed	
59	OPS Con.	Review OPS Workshop deadlocking issue associated with multiple PGE's assigned to single processor	Lucy Lee	8/15/95	Ramsey Billups	For performance reasons, PDPS will run jobs single treaded, although the design will not preclude multiple PGEs on a single processor. UNIX will handle cases of deadlock that arise from attempts by both PGEs to access the CPU or a file.	9/7/95	Closed	
60	MSS	Develop performance requirements for MSS functions derived from timeliness for Operator Interaction	Jon Moses	8/15/95	Alan Gary	System performance needed to support operator activities will be reflected in scenarios in OCD 2B	9/13/95	Closed	
61	BAAS	Determine accepted method of payments (e.g. cash, credit cards)	Sol Broder	8/1/95	Jorge de Dios	ECS will accept cash, check, and purchase orders. DAACs which sell information on site, may accept credit cards and other forms (their policy). DAACs will be responsible for processing and security of cards. DAACs will provide revenue data to BAAS.	8/30/95	Closed	
62	BAAS	Pricing policy	George Percivall	8/1/95	Jorge de Dios	ECS to be policy- neutral. There is no policy at this time to institute different pricing tables for different user groups. Possibility exists in the future to do so.	8/30/95	Closed	
63	BAAS	Billing and accounting information derived from external entities (inform Pete Lyons of any external interface)	George Percivall	8/15/95	Jorge de Dios	All information inputs for the BAAS will be provided by the ECS Management Database. There is no information being acquired from an external source.	8/30/95	Closed	
64	BAAS	Grouping of Users (individual, group, project), e.g. ASF user groups	Ruth Duerr	8/15/95	Jorge de Dios	C-MSS-78200 requires the application provide the capability to consolidate accounts into a single group. During the 8/18 meeting with ASF, the issue was identified as an issue for the Client Sub-system. See also issue 31	8/30/95	Closed	C-MSS-78200
65	BAAS	International billing (e.g., ASTER, Canadian Space Agency)	Ruth Duerr	9/15/95	Jorge de Dios	Accounting and billing will only be done in U.S. dollars. See item 31.	9/19/95	Closed	
66	BAAS	Identify DAAC uniqueness to interfacing with BAAS, in particular EDC. What is the plan for analysing the suitability of billing at each DAAC? Give a date	EDC, Debbie Blake, Sol Broder	9/15/95	Jorge de Dios	A plan of action was designed and completed by 8/9. A questionnaire was provided to sites to understand particular requirements. Received responses from most sites. Still awaiting answers from EDC. Part of IDR External Contact Plan	9/27/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
67	BAAS	Project Action: Investigate denying users system functionalities based upon lack of funds, for example, queries.	Lucy Lee	10/15/95	Sol Broder	It is the expectation of ESDIS that ECS will provide the capability to deny users access based on lack of funds. This function will be provided. It will be a matter of policy to actually deny users access. (e-mail message from Broder 10/20/95)	10/20/95	Closed	
68	BAAS	Security requirements of accounting and billing. should they be tougher than remainder of the system (credit card numbers)	Chris Lynnes	8/15/95	Jorge de Dios	Initial baseline established a "no credit card" policy due to the Internet access and the security concerns that it raises. Credits cards will not be an accepted form of payment for ECS. (Chris Smith, 8/9).	8/30/95	Closed	
69	CLS	Assumption of MSS that there will be price estimation (table driven) in client	Alan Gary	8/15/95	Alan Gary (Ujhazy)	This is not a client issue. Pricing table is in data server.	8/31/95	Closed	
70	BAAS	What about over payments?	Ruth Duerr	8/15/95	Jorge de Dios	Part of BAAS L4 requirement to process refunds. Refunds may be due to overpayment. Current requirement has been enhanced to reflect that. Overpayments may be refunded to the user, or credited to the account to cover future charges at the user's request	8/30/95	Closed	C-MSS-78420
71	MSS	Develop requirements to address configuration of software installation as part of software distribution	Jon Moses	8/15/95	Charles Kellerman	Addressing configuration during installation process add as L4 Requirement	8/30/95	Closed	
72	MSS	Review GSFC CIO requests for inventory of desktop computers with respect to inventory/logistics management requirements (point of contact Phil Davis)	Chris Lynnes	8/15/95	Charles Kellerman	ECS has received GSFC input and will use as appropriate.	8/30/95	Closed	
73	MSS	Tracking of warranties and early warning of expiration.	Chris Lynnes	8/15/95	Charles Kellerman	We will include this data item as an operation in the logical model of MLCI information.	8/30/95	Closed	
74	MSS	Check on barcoding requirement for MSS hardware tracking.	Sol Broder	8/15/95	Alan Gary	Bar-code readers will be provided at each DAAC by M&O WBS-8. MSS will investigate the need for additional L-4 requirements to insure that the MSS Inventory/Logistics CSC will be compatible with the bar-code readers.	10/20/95	Closed	
75	MSS	Add a requirement for ECS control numbers and site specific control numbers.	Chris Lynnes	8/15/95	Alan Gary	An inventory requirement was added to support this.	8/31/95	Closed	
76	MSS	Tracking of training credits based upon purchasing of COTS.	Steve Marley	8/15/95	Charles Kellerman	We will include this data item as an operation in the logical model of MLCI information.	8/30/95	Closed	
77	MSS	Support of training courses, extent of variations of training materials, e.g., computer based training	Sol Broder	8/15/95	Charles Kellerman	The exact type of training to be provided - texts, manuals, on-line help, bulletin board, computer based training - will be options. Specific type will be determined based on products selected	8/30/95	Closed	SMC-2420, SMC-2430

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
78	MSS	Insure consistent requirements in other subsystems providing information for MSS for report generation.	George Percivall	8/15/95	Philip Miller	Completed for RTM load 9/1	9/28/95	Closed	
79	MSS	Product Unique quality reports based on product specific quality metadata	Tom Antczak	8/15/95	Philip Miller	The MSS report generation service design will accomodate variances in quality indications among data products.	8/28/95	Closed	
80	MSS	Have some level of consistency between Rel. A and Rel. B report generation formats.	Jon Moses	9/15/95	Philip Miller	An ad-hoc team composed of Release A and B members have compiled management reports in a working document. A process to assure coordinated report generation across releases is in place.	9/27/95	Closed	
81	MSS	Add a requirement for output format requirements for reports. Consider spreadsheet compatible, HTML, and graphics, e.g. pie charts.	Chris Lynnes	8/15/95	Philip Miller	The MSS report generation requirements have been revised to include a capability to provide report query data in a format compatible for import to a spreadsheet. An additional requirement specified report output compatibility with HTML. Closed into issue #44	8/28/95	Closed	C-MSS-92040
82	MSS	Provide further detail on EMC planning and scheduling requirements. Review requirements during design telecon.	Jon Moses	8/1/95	Alan Gary		8/1/95	Closed	
83	MSS	Send a message to trouble ticket contact upon submission of a trouble	Chris Lynnes	8/15/95	Alan Gary	Capability will be provided, it was demo'ed at rel ACDR	8/31/95	Closed	
84	CSMS	Identify CSMS HWCI's and develop L4 Requirements.	George Percivall	8/15/95	Harvey Privor	each CSMS hardware requirement ID will be changed to denote the subsystem . e.g. C-MSS-, C-CSS-, and ISS-. and the hardware CI will be denoted within the requirement (eg. MSS HWCI)	8/22/95	Closed	
85	MSS	Investigate the impact of mode management design on Rel. A	Craig Schillhahn	10/15/95	Alan Gary	Design Issue Team chartered to solve this issue.	9/9/95	Closed	
86	REQ's	Consider requirement for all CSCI's that processes have a flag indicating operational or test status.	George Percivall	8/15/95	Dave Turanski, Alan Gary	MSS will control CSCI operational mode at startup. Each CSCI will be required to report its operational mode to MSS upon request or as part of its event log. MSS will support any number of operational modes; not limited to "operational" or "test".	8/22/95	Closed	SMC-3300
87	Project	Define simulation mode for project requirements	Moshe Pniel	8/1/95	Sol Broder	Definition provided to G. Percivall by Sol Broder	8/1/95	Closed	
88	Client	Define a minimum set of functions for the low end interface.	Robin Pfister	8/15/95	John Ujhazy	Web client to be low end client. ECS anticipating further direction from ESDIS on CHUI. Further work is part of CIDM Incremental Requirements Development Plan	9/27/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
89	Client	How is session information passed among multiple servers?	Mike Moore	1/2/96	John Ujhazy	Requirements will be added to the DIM and LIM CIs for a session terminate command to be forwarded to all servers which are a part of that session. Session suspension and resumption commands will not be forwarded.	8/15/95	Closed	
90	Client	How is context information passed among client tools?	Mike Moore	1/2/96	John Ujhazy	Requirements will be added to define tool interactions. How and what context information is passed among tools is a design issue which will be fleshed out in the EPs. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	
91	Client	User should be able to execute asynchronous batch searches?	Chris Lynnes	8/15/95	John Ujhazy	Asynchronous batch searches are linked to the command line interface. Work is part of CIDM Incremental Requirements Development Plan	9/27/95	Closed	
92	Client	Change to read:from user supplied and default information.	Robin Pfister	8/15/95	John Ujhazy	The requirement will be changed.	8/15/95	Closed	S-CLS-13090
93	Client	At IDR, identify the meaningful functional HMI requirements (user tasks) tagged as operator and/or user in a single table.	Chris Lynnes	8/1/95	Keith Bryant	Closed into issue #23	8/1/95	Closed	
94	Client	Identify L4 requirements that support incremental search (by the originator).	Mike Moore	8/1/95	Kevin Limperos	Closed into item 37	8/1/95	Closed	
95	Client	Ensure L4s are consistent with L3s in regard to text and graphic inputs for geographic search.	Ted Meyer	8/15/95	John Ujhazy	The following requirements will be changed : S-CLS-10060, S-CLS-10070, S-CLS-10075	8/15/95	Closed	S-CLS-10090
96	Client	Provide the capability to insert geographic references by an operator (points, point radius, polygon, minimum bounding rectangle).	Ted Meyer	8/15/95	John Ujhazy	This issue will be examined an L4 provided as necessary.	8/15/95	Closed	S-CLS-10040
97	Client	Identify the requirements that support multiple browse windows.	Debbie Blake	8/15/95	John Ujhazy	A requirement will be added for the data visualization tool to support multiple browse images. This capability will be provided in EP6.	8/15/95	Closed	
98	Client	Insert the words "searchable core" before "metadata attributes"	Robin Pfister	8/15/95	John Ujhazy	Requirement will be changed.	8/15/95	Closed	S-CLS-10190
99	Client	Clarify the requirement to include coverage maps, etc.	Ted Meyer	8/15/95	John Ujhazy	A new requirement will be added for Client map displays to for specific types of geographic data sets for background reference.	8/15/95	Closed	S-CLS-10300
100	Client	Clarify what x, y, and z are with respect to projections.	Chris Lynnes	8/15/95	Ujhazy	Work included in CIDM Incremental Requirements Development Plan	9/27/95	Closed	S-CLS-11220
101	Client	Provide schedule to work off TBDs	Craig Schillhahn	9/15/95	Ujhazy	The CIDM Incremental Requirments Plan provides the schedule.	9/27/95	Closed	
102	Client	Rework the ad hoc subset requirement	Ted Meyer	8/15/95	Graham Reed	Unable to reconstruct the meaning of this comment.	10/20/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
103	Client	Starting around S-CLS-10740, the requirements should be adjusted so that guide and advertisement can be searched like other inventory items.	Robin Pfister	8/15/95	Ujhazy	A review of L4s which describe client search capabilities was conducted. Requirements to specify consistent search capabilities for different types of data were modified in 304 for IDR. Further work is identified in CIDM Incremental Requirements Develop	9/27/95	Closed	
104	Client	Should be able to use guide as an aid to constructing searches	Robin Pfister	8/15/95	Ujhazy	Requirements will be added to define tool interactions. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	
105	Client	Provide the requirement for text based search	Robin Pfister	8/15/95	Ujhazy	A review of L4s which describe client search capabilities was conducted. Requirements to specify consistent search capabilities for different types of data will be included in CIDM Incremental Requirements Development Plan	9/27/95	Closed	
106	Client	Clarify requirement	Robin Pfister	8/15/95	Ujhazy	The word "overlay" was deleted from the requirement.	9/27/95	Closed	S-CLS-13570
107	CLS	Need to define requirements for searching for global granules only.	Chris Lynnes	8/15/95	Ujhazy	Requirements will be added to specify search of global granules.	8/15/95	Closed	
108	CLS	Need to define requirements for user set thresholds.	Chris Lynnes	8/15/95	Ujhazy	Requirements will be added for users to specify threshold on result set size.	8/15/95	Closed	
109	CLS	Need requirements to delineate the specifications of a command language.	Mike Moore	8/15/95	Ujhazy	These requirements will be developed as described in the CIDM Incremental Requirements Development Plan	9/27/95	Closed	S-CLS-12860
110	CLS	Delete the requirement	Chris Lynnes	8/15/95	Ujhazy	The requirement for WAIS functionality at the client will be reviewed.	8/15/95	Closed	S-CLS-13354
111	CLS	Provide a proxy mode for user services to execute requests on a user's behalf.	Chris Lynnes	8/15/95	Ujhazy	Closed to the CIDM Incremental Requirements Plan. Client subsystem requirements for user services functionality are being developed using user services operations scenarios. These requirements will be included in the IDR release of the L4 requirements d	8/15/95	Closed	
112	CLS	References to NOAA, SAA and ADCs need to be clarified or consistent.	Michelle Holm	8/15/95	Ujhazy	Closed to the CIDM Incremental Requirements Plan. S-CLS-11070 will be changed to specify a capability to obtain Data Request Status for NOAA Data Products. Other references to NOAA will be revised for consistency with the NOAA IRD.	8/15/95	Closed	
113	CLS	Allow for multiple address capability.	Michelle Holm	8/15/95	Ujhazy	A new L4 will specify that the client will provide users the capability of specifying multiple addresses which include mailing address, billing address and shipping address.	8/15/95	Closed	S-CLS-15780

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
114	CLS	Be consistent with the expressions of update, terminate and modify.	Michelle Holm	8/15/95	Ujhazy	These requirements will be developed as described in the CIDM Incremental Requirements Development Plan	9/27/95	Closed	
115	CLS	Change to read:for Subscriptions for Data or Metadata.	Ted Meyer	8/15/95	Ujhazy	The requirements will be modified as specified.	8/15/95	Closed	S-CLS-13810
116	CLS	Requirements should define subscription functionality at the DIM/LIM level.	Mike Moore	8/15/95	Ujhazy	See also issue 146. Level 4 requirements to define subscription functionality for DIMs and LIMs are currently being examined. Requirements will be developed as defined in the CIDM Incremental Requirements Plan	10/5/95	Closed	
117	CLS	How are subscriptions for on demand processing related to processing requests for on demand data (see also 11270, 11000, 11280).	Ruth Duerr	9/15/95	Ujhazy	See also issue 146. Request for on-demand processing is one-time event. Subscriptions provide repeated servicing of the on- demand processing request. Data requests for products generated on-demand specify how products are distributed after processing	8/15/95	Closed	S-CLS-10260
118	CLS	Accounting requirements appear insufficient.	Michelle Holm	8/15/95	Ujhazy	Requirements for the CIDM interface to CSS and MSS services will be reviewed and updated in the IDR timeframe. Requirements will be developed as described in the CIDM Incremental Requirements Plan.	10/13/95	Closed	S-CLS-11080 and -11090
119	Interfaces	Verify Cary Gire's INGEST subsystem context diagram matches Rel. B Interface Diagrams	George Percivall	8/15/95	Mark Alabastro	Captured in 222-WP-002-001 which will be incorporated into 304 document. Mission specific data flows will not be on subsystem context diagrams, will be on a DAAC to DAAC diagram in 304.	9/28/95	Closed	
120	INS	Put together a schedule for interface discussions with AM1 instrument teams.	Moshe Pniel	8/15/95	Steve Marley	Closed as part of External Contact Plan	8/28/95	Closed	
121	INS	User INGEST GUI needs to be built with context passing from other client GUI's	Ted Meyer	10/15/95	Carey Gire	See also issue 23. Will be developed in conjunction with CIDM	10/21/95	Closed	
122	INS	Review ancillary data (NMC) dataset format, e.g. ASTER and MISER, during a AHWGP telecon. Needs to be indentified by Jan/Feb. 1996	Moshe Pniel	1/2/96	Carey Gire	Part of External Contact Plan	10/20/95	Closed	
123	INS	Is there a requirement for the DAACs to perform QA analysis at ingest for data sets.	Jon Moses	8/1/95	Steve Marley	No requirement. QA analysis can be performed once data is inserted into the Data Server	8/1/95	Closed	
124	INS	Clarify redistribution of DPREP L4 requirements	Ben Jai	8/15/95	Carey Gire, Ramsey Billups, Tom Smith	DPREP requirements redistributed as described in ECS CCR 95-0546	8/23/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
125	INS	What is INS doing to deal with conflicts with external events and internal housekeeping events?	Sol Broder	8/1/95	Carey Gire	Closed into issue #44	8/1/95	Closed	
126	INS	Convey need to Joe Guzek for a definitive technical baseline for IDR by September 1, 1995	Cary Gire	8/15/95	George Percivall	Joe Guzek to update Technical Baseline by 8/25/95	8/15/95	Closed	
127	INS	Need to identify new data types, new media types for Release B	George Percivall	9/15/95	Carey Gire	Data types and media types as known for IDR are contained in Ingest design spec (305). Issue of single media type for ASTER and EDOS backup. Table to be updated for CDR.	9/27/95	Closed	
128	INS	L4 requirements need to be refined by meetings with data providers and instrument teams	Moshe Pniel	8/15/95	Steve Marley	Reposted L4 requirement files for external review. Part of External Contact Plan	9/1/95	Closed	
129	Interfaces	Verify Tom Smith's Data Server subsystem context diagram matches Rel. B Interface Diagrams	George Percivall	8/15/95	Mark Alabastro	Captured in 222-WP-002-001 which will be incorporate into 304 document.	9/28/95	Closed	
130	DSS	Update data type services matrix (Appendix F) to include Rel. B	George Percivall	9/15/95	Andy Endal, Tom Smith	See also issue34. Data Type services matrix updated for document 304. Future review of matrix is planned as part of External contact Plan	9/27/95	Closed	
131	INS	Investigate the need for 4mm tape for media ingest/distribution for Rel. A.	Moshe Pniel	8/15/95	Tom Smith	4mm tape will be supported in Release A.	8/31/95	Closed	
132	DSS	Distribution of NMC data to other data production centers beyond DAO.	Moshe Pniel	9/15/95	Tom Smith	Identification of data for DAO will be identified in time to size DSS resources between IDR and		Open	
133	DSS	Migration of existing DAO data to ECS	George Percivall	9/15/95	Tom Smith	Identification of data for DAO will be identified in time to size DSS resources between IDR and		Open	
134	DSS	DAO data volume/data set requirements (processing plan is 30 days per day to support final analysis and R&D)	George Percivall	9/15/95	Tom Smith	Identification of data for DAO will be identified in time to size DSS resources between IDR and		Open	
135	DSS	DAO data volume/data set requirements (processing plan is 30 days per day to support final analysis and R&D)	George Percivall	8/1/95	Tom Smith	Duplicate of 134	8/1/95	Closed	
136	DSS	Identify the schedule and the process to obtain user input and ESDIS approval for selection of physical media data distribution.	Debbie Blake	9/15/95	Tom Smith	Part of External Contact Plan. The identification process new distribution mediums is thru users, DAACs, & ESDIS. The review and approval mechanism would be via established CCBs.	9/27/95	Closed	
137	Rel. B	Review all actions requesting input from users, DAACs, and instrument teams to determine a minimal impact approach	Steve Marley	8/15/95	Steve Marley	External Contact Plan developed.	8/28/95	Closed	

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
138	DSS	Examine the volume for media distribution and the associated hardware needed to meet data requests (given there are no L4 Req.'s). Are the Rel. B requirements directed by the "10%...demand"	Sol Broder	8/15/95	Tom Smith	Rel B requirements are not directed by the "10% demand". No L4 requirements will be added on distribution volumes for specific form factors. This is an implementation issue. Table to be definitive by CDR. Incorporates issue 137. See also issue 178.	10/20/95	Closed	
139	DSS	Review ratio of electronic/media distribuion with respect to how many items of each media is to be distributed. (AHGWC may be considered).	Debbie Blake	8/1/95	Tom Smith	Incorporated into issue 138. AHWGC is part of External Contact Plan. Modeling is using a 50/50 ratio of electronic versus media distribution. The technical baseline, production/anticipated distribution rates are factors being input into the models	8/1/95	Closed	
140	REQ's	Review L3 req's to determine L4 req. concerning prepackaged, physical media, of high interest	Debbie Blake	8/15/95	Debbie Blake	e-mail from D. Blake indicates that DADS 2490 should include pre-packaged media. CDR-A RID opened by Hunolt. Item will now be tracked as a RID	9/27/95	Closed	
141	CLS	Data server is assuming prioritization of requests by the client.	Tom Smith	8/15/95	Ujhazy	Users will have the option to lower his/her priority in the profile owned by the user. Default priority will be set for user at the time of initialization.	8/15/95	Closed	
142	Project	What is the policy for exclusive use of data in light of QA issues, across the entire life span of the data.	Moshel Pniel	1/2/96	Ted Meyer			Open	
143	CLS	Timely definition and development of an ASF DAR concept.	Tom Smith	8/15/95	John Ujhazy	Interface requirements between Client and Data Server in 304 document. See also issue 31. Requirements will be developed as described in the CIDM Incremental Requirements Plan.	10/13/95	Closed	
144	DSS	How to fulfill subscription to a virtual product at ASF (also include ASTER-Gary Geller)	Ruth Duerr	9/15/95	Tom Smith	See also issue 31. A scenario for this topic is being developed and will be documented in a white paper for IDR	10/20/95	Closed	
145	DSS	Can a subscription be made to metadata, e.g. L7 cloud cover? or is a subscription granule specific?	Ted Meyer	10/15/95	Tom Smith	Subscriptions cannot be made against metadata, subscriptions are granule specific. Also see item146	8/31/95	Closed	
146	REQ's	Define an end to end understanding of subscriptions. DAAC's feel subscription are a main item in overall operation of system.	Lucy Lee	10/15/95	David Turanski	See also issues 145, 116 and 117. IDR will be built around end-toend scenarios with drill downs on particular issues. Subsriptions will be a topic.	10/20/95	Closed	
147	REQ's	Disagree with assumption that DADS tools will not be distributed as part of the client, i.e. some tools need to be available at the client site.	Debbie Blake	10/15/95	Tom Smith	Data Server "DADS Tools" are server, not client based. Client may incorporate compression/decompression, but subsetting, format conversion, subsampling and data transformation will reside on Data Servers.	10/20/95	Closed	

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#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
148	DSS	In addition to HDF-EOS, what are the approved ECS Data Formats?	Tom Smith	8/1/95	George Percivall	Per DADS0760, ECS shall distribute data in approved standard formats including HDF and the L7 standard format (Landsat data only). No others are approved to date.	9/19/95	Closed	
149	DSS	Consumers using V0 specific subsetting and subsampling tools instead of ECS standard tools.	Tom Smith	10/15/95	Tom Dopplick	Part of V0 Data Migration planning. Incorporates issue 150.		Open	
150	DSS	Consumers wishing to subset & subsample data using both V0 specific and ECS standard tools.	Tom Smith	8/1/95	George Percivall	Closed into 149	8/1/95	Closed	
151	DSS	Service types are related to data format and metadata .	Tom Smith	8/1/95	George Percivall	Closed into 130	8/1/95	Closed	
152	DSS	Does compression/ decompression make sense in places other than distribution.	George Percivall	10/15/95	Tom Smith	Compression/decompression options are implementation issues which will be evaluated by IDR and CDR.		Open	
153	DSS	Req's should be functional rather than stating use of vendor tools	Jon Moses	8/15/95	Tom Smith	ECS allows a mixture of host platforms within each site and across all sites. All host platforms provide suites of tools with varying capabilities. Functions will vary across hosts therefore no specific functional requirements will be developed.	8/31/95	Closed	S-DSS-00570 to S-DSS-00810
154	DSS	Performance req.'s for data server (latency)	Jon Moses	8/15/95	Tom Smith	System performance needed to support operator activities will be reflected in scenarios in OCD 2B	9/13/95	Closed	S-DSS-00070
155	DSS	Delete requirement and remap L3's	Tom Antzck	8/15/95	Tom Smith	Per e-mail exchanges, with Tom Antczak, the details of this comment can no longer be reconstructed and therefore will be closed.	9/27/95	Closed	S-DSS-00080 to S-DSS-00090
156	DSS	Clarification text needs to reflect attitude data	Tom Antzck	8/15/95	Tom Smith	This is a valid comment and will be added to clarification text. Attitude data will not be corrected by FDF. L4 requirements to capture the appropriate data are in place.	8/31/95	Closed	S-DSS-00270 and S-DSS-00280
157	DSS	Develop a scenario for submitting data processing requests to replace a missing or lost tape highlighting the amount of operator interaction and review with Chris Lynnes	Chris Lynnes	9/15/95	Sharon Dennison	A scenario was added to OCD 2B called Lost Tape Scenario.	9/13/95	Closed	
158	DSS	Investigate developing requirements for facilitating the easy creation of new data collection for existing data granules	Chris Lynnes	8/15/95	Tom Smith	This capability appears to be out of scope based on discussion of what is want with Chris Lynnes. Additional information is required from ESDIS including what L3 they believe covers this requirement.	10/20/95	Closed	

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#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
159	DSS	Confirm the existence of requirements for ingest to extract orbit and attitude data from L0 data.	Ted Meyer	8/15/95	Billups (org. Gire)			Open	
160	Rel. B	Identify Key workshop issues to be reviewed at design telecons.	George Percivall	8/15/95	Steve Marley	Part of External Contact Plan	8/28/95	Closed	
161	Rel. B	Identify which issues are CDR and not IDR	Debbie Blake	8/4/95	George Percivall	IDR applicability added as a field to Workshop Issues database. External Contact Plan.	8/4/95	Closed	
162	CSS	Clarify which S/S is responsible for CSS administration	Jon Moses	8/15/95	Shabahat Husain	MSS subsystem is responsible for CSS administration.	8/31/95	Closed	
163	CSS	How is Release A supporting subscriptions without CSS events?	Chris Lynnes	10/15/95	Shabahat Husain	Subscriptions are supported by the DSS subscription service. The CSS DOF supports the communication.	9/15/95	Closed	
164	CSS	Clarify that the CSS development environment will be available for DAAC unique development (see also #12).	Chris Lynnes	10/15/95	Dave Turanski	All CSS code will be available to DAACs, source code & object libraries to allow development of applications that utilize subclasses of CSS objects. In addition, DCE, HP OODCE, C++ compiler, IDL++ compiler are required. (Also includes issue #12)	8/22/95	Closed	C-CCS-0500
165	CSS	All CSS requirements should have a unique ID	Craig Schillhahn	8/15/95	Shabahat Husain	All CSS requirements now have unique IDs	8/31/95	Closed	C-CS-61xxx, etc.
166	CSS	Rel A requirement 61820 is redundant (delete B requirement)	Chris Lynnes	8/15/95	Shabahat Husain	The previous requirement 61394 is for interactive mode and this requirement (61820) is for non-interactive mode. The text of the requirement is modified to clarify.	8/31/95	Closed	C-CSS-61xxx (file name)
167	CSS	Should e Mail and other common facilities have performance requirements?	Jon Moses	8/15/95	Shabahat Husain	No. We discussed this issue with Release A personnel (Naveen). They also recommend not to have performance requirements against the common facilities.	8/31/95	Closed	
168	CSS	Post Office Protocol (POP) should be supported.	Chris Lynnes	8/15/95	Shabahat Husain	POP support has been added.	8/31/95	Closed	
169	CSS	Investigate the need for reliability requirements for the Event Logger	Chris Lynnes	8/15/95	Alan Gary	A group comprised of a CSS member and an MSS will address this issue together since this issue pertains equally to both subsystems.	9/18/95	Closed	
170	CSS	Is there a requirement for manual uploading upon demand of the local event log file?	Rob Groff	8/15/95	Alan Gary	A requirement was added to address this issue.	8/31/95	Closed	
171	CSS	Correct MSS to CSS (typo)	Craig Schillhahn	8/15/95	Shabahat Husain	Typo corrected.	8/31/95	Closed	C-CSS-22210
172	CSS	Review requirement for CSS to support Lynx, Mosaic, and NetScape. Make sure client and CSS L4s are tied together.	Chris Lynnes	8/15/95	Shabahat Husain	Done. Also requirement text is modified.	8/31/95	Closed	page 35, C-CSS-xxxx

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#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
173	CSS	Explain the specific uses for CSS Transaction Processing.	Chris Lynnes	9/15/95	Shabahat Husain	At present CSS and MSS BAAS will use transaction processing. It is anticipated that other applications will be identified as the design progresses.	9/20/95	Closed	
174	CSS	Specify the document in which the Release A to Release B transition/cut-over plan will be documented.	Chris Lynnes	9/15/95	George Percivall	The Transition Plan will be documented in a white paper to be developed prior to CDR-B	8/8/95	Closed	
175	Interfaces	Incorporate Rel. B ISS Interfaces from Dean Moore's presentation	George Percivall	8/15/95	Mark Alabastro	ISS context diagrams are captured in 222-WP-002-001 and only reflect the actual physical connects and the scope of ECS. Will be incorporated into 304 Document.	9/28/95	Closed	
176	ISS	Clarification of ORNL expected data flows, since ORNL's current Internet connectivity may be sufficient	George Percivall	8/15/95	Dean Moore	Data flows for ORNL are being evaluated by ECS modeling based on the AHWPG info. This will be used to implement the ORNL networks and interfaces with results in design document. L4's will state just that networks and interfaces required at ORNL.	8/15/95	Closed	
177	ISS	Need clarification of data flows from and the location of ASF production and archival system	Ruth Duerr	9/15/95	Dean Moore	Specific network interfaces in ASF IRD and ICD will be reflected in design document (305). L4's will state just that networks and interfaces required at ORNL.	8/15/95	Closed	
178	Rel. B	ISS is assuming 50% media, 50% electronic. DSS is assuming 10% media and 90% electronic.	Chris Lynnes	8/15/95	George Percivall	Technical Baseline states that all subsystems will use 50/50 assumption. See also issue 138.	8/24/95	Closed	
179	ISS	Does the output of the dynamic model for the network sizing reflect diurnal variations?	Bill Bass	10/15/95	Dean Moore	Roughly the same amount of "day-time" data as "night-time" data will be received by ECS at the same. Therefore, it is reasonable to assume that diurnal variation is a second or third order effect and does not need to be simulated.	8/15/95	Closed	
180	REQ's	Clarify interpretation of L3 RMA requirements are hardware related exclusively (concern of Chris Lynnes).	Debbie Blake	9/15/95	Ted Hammer			Open	
181	MSS	Review applicable requirements and determine the need for an BYU object	Craig Schillhahn	10/15/95	Alan Gary	Requirements were reviewed. No specific requirements relate to the need for BYU object. Implementation will be considered as part of the detailed design phase between IDR and CDR	10/20/95	Closed	
182	CLS	There needs to be L4 requirements for non-hierarchical access to info throughout the system. (see 7/21/95 email from Pfister)	Robin Pfister	8/15/95	John Ujhazy	Requirements will be added to define tool interactions. How and what context information is passed among tools is a design issue which will be fleshed out in the increments. Closed to the CIDM Incremental Requirements Plan.	8/15/95	Closed	

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#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
183	DSS	I'm not sure where it's done but it should also compare with the stricter set of known, pre-defined dataset specific specifications... e.g. against the valid values for a particular dataset rather than the world of values in all of EOSDIS.	Robin Pfister	8/15/95	Tom Smith	The intent of this requirement is that requests will be validated against generic as well as data product specific metadata fields.	8/31/95	Closed	S-DSS-03410
184	CLS	Are there going to be non-numeric geographic data such as location keywords (e.g. give me data over Kansas), that will potential be included in boolean operations? If so, then the phrase non-geographic isn't quite correct	Robin Pfister	8/15/95	John Ujhazy	Requirements for non-numeric geographic data and the associated functionality will be reviewed and update as part of the CIDM Incremental Requirements Plan	9/27/95	Closed	S-CLS-10160.
185	CLS	Exact word matching to what? Does this still support of aliasing?	Robin Pfister	8/15/95	John Ujhazy	The requirements refers to an exact word matching criteria for query of text based metadata, and will be changed accordingly. The requirements for aliasing are currently be examined.	8/15/95	Closed	S-CLS-10110.
186	CLS	I did not see anywhere when a user adds, removes, or copies applications that some sort of warning popup window for confirmation that the user would want to do that function.	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	A new requirement will be written to specify confirmation when a user adds or delete a desktop object.	8/15/95	Closed	
187	CLS	provide users the capability to mail desktop objects what time frame we are talking about? i.e. can a user ask to mail objects say a week from today because he will be out that week.	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	There are no requirements to provide a time-based constraint for mail service. Objects sent by the mail will be delivered immediately.	8/15/95	Closed	S-CLS-01360
188	CLS	Under Desktop Objects: Again when a user destroys desktop objects, is there a warning window for confirmation?	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	A new requirement will be written to specify confirmation when a user adds or delete a desktop object.	8/15/95	Closed	
189	CLS	Under user registration : Why would you want to limit access to ECS services?	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	While policy for EOS data is unrestricted access, some data in ECS will have restrictions. ASF data will have restrictions based on international agreements. Instrument data may be restricted during cal/val. Ability to restrict access will be provided.	9/18/95	Closed	S-CLS-13440
190	CLS	User sessions ; Is this based on user account priority and authorized service?	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	Closed to the CIDM Incremental Requirements Plan. User may establish a session, submit a search, disconnect from session, and at later time reconnect to the session to check on results. Account priority and authorized services apply to service requ	8/15/95	Closed	S-CLS-13210

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
191	CLS	Earth science search tool: Can a user do both S-CLS-10190 and 10910 at the same time?	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	Yes. The user may submit two separate search requests which will be processed by the system at the same time. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	
192	CLS	Product request tool : How about providing users with an estimated delivery time?	Wayne Hanson (email 7/21)	8/15/95	John Ujhazy	Users will be provided with a estimated time window for when the processing for data will be completed. There are, however, no requirements to provide users with an estimated delivery time. Closed to the CIDM Incremental Requirements Plan	8/15/95	Closed	S-CLS-10800
193	DSS	These requirements put off archive media monitoring until Release C. In between B and C a lot of data will be stored on tens of thousands of pieces of media. Waiting until C means all media written before C will not be monitorable, and archive will hav	Wayne Hanson (email 7/21)	9/15/95	Tom Smith	For Rel A & B data viability will be thru a checksum for each file component of each data granule. This approach satisfies the majority of ESDIS's viability concerns and they have agreed to map BER monitoring to Release C. Closed to the CIDM Incremental	8/31/95	Closed	S-DSS-20310- S-DSS-20920
194	DSS	These three requirements talk about ingest rates from Level 0 to different DAACs (MSFC, LaRC, GSFC). The EDC DAAC and the other DAACs are not mentioned. Shouldn't there be similar requirements for Release B?	Wayne Hanson (email 7/21)	8/15/95	Tom Smith	DSS is trying to avoid DAAC specific requirements where ever possible but certain unique capabilities and requirements have or will have specific L4 requirements developed for them. Closed to the CIDM Incremental Requirements Plan	9/5/95	Closed	S-DSS- 90300,10,20
195	INS	This and other Landsat 7 requirements in this section show many TBDs. What are the assumptions being made, if the TBDs are not resolvable?	Wayne Hanson (email 7/21)	9/15/95	Carey Gire	TBDs reduced for IDR. TBDs remaining for performance as part of Appendix E in Document 304 will eliminated for CDR. Closed to the CIDM Incremental Requirements Plan	9/27/95	Closed	S-INS-1130
196	INS	Requirement S-PLS-02000 talks about accepting scheduling information on external events. does this include the archive and ingest subsystems?	Wayne Hanson (email 7/21)	8/1/95	Ramsey Billups	Closed into item 44. Closed to the CIDM Incremental Requirements Plan	8/1/95	Closed	
197	DPS	What about questions on SYBASE and COTS products?	Wayne Hanson (email 7/21)	8/1/95	Ramsey Billups	Implementatation issue. Closed to the CIDM Incremental Requirements Plan	8/1/95	Closed	S-DPS-0160
198	DPS	Will the system not be capable of operating 24-hour a day, 7-day week mode before release B?	Wayne Hanson (email 7/21)	8/15/95	Ramsey Billups	The pre-release B design does not prohibit the system from operating in a 24-hour a day, 7-day week mode. The accepted availability of rel A is 16-hours a day, 5 or 7 days a week. Closed to the CIDM Incremental Requirements Plan	8/7/95	Closed	S-DPS-20020

Release B Workshop L4 Issues List

#	CSCI	Description of Issue	Originator	Planned Closure	Assignee	Disposition	Close Date	Status	Applicable Req
199	DPS	Will similar capabilities be available for IR-1?	Wayne Hanson (email 7/21)	8/1/95	Ramsey Billups	Response provided during review. Closed to the CIDM Incremental Requirements Plan	8/1/95	Closed	S-DPS-42365
200	DPS	What assumptions were used for the sizing of the processing and storage i.e. manned vs unmanned operation, 24 hour 7 day operation? Does this sizing include Landsat 7 or V0 migration?	Wayne Hanson (email 7/21)	9/15/95	Ramsey Billups	The sizing numbers were based on some of the DAACs operating 3 manned shifts 7 days a week (24 x 7). Both Landstat 7 and V0 Data Migration were included in those numbers and the corresponding sizing requirements.	10/12/95	Closed	S-DPS-60240 thru 60260:
201	MSS	Frequency of collection should be every 24 hours; daily.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	Performance requirement added	8/30/95	Closed	C-MSS-78040
202	MSS	Should use an accounting bill cycle of every 4 weeks; monthly.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	Performance requirement added	8/30/95	Closed	C-MSS-78070
203	MSS	Should not use differing pricing schema but set up different pricing tables or allow for \$0 and/or special discount pricing during order entry.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	C-MSS-78120 requires that the application price the system using standardized pricing tables. A user account will dictate which table is used to price that user's order. All tables could allow for \$0; or only a few. It's a matter of policy.	8/30/95	Closed	C-MSS-78150
204	MSS	Need different account types.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	The ability to exempt specific users from late charges, interest, and penalties is derived from the user's account number, set up during registration. policy dictates which account types (e.g., exempt) are applicable.	8/30/95	Closed	C-MSS-78170
205	MSS	Suggest not allowing user to determine billing cycle.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	Requirement has been eliminated	8/30/95	Closed	C-MSS-78190
206	MSS	Would not recommend the installment plan.	Wayne Hanson (email 7/21)	8/15/95	Jorge De Dios	Requirement has been eliminated	8/30/95	Closed	C-MSS-78430
207	Client	The Release A Ops Scenarios Workshop (6/95) included a User Services Workbench. Is this reflected in L4s?	Lucy Lee (email 7/21)	8/15/95	John Ujhazy	Have not received user services operations scenarios. These requirements will be developed as described in the CIDM Incremental Requirements Plan	9/27/95	Closed	
208	MSS	Do L4s address configurable message delivery mechanisms to adjust who gets/needs messages, alerts, and reports	Lucy Lee (email 7/21)	8/15/95	Alan Gary	This is supported by HP Openview and the Rel A L-4s do address this. (ie. C-MSS-60060)	8/31/95	Closed	

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209	DSS	ASF needs data restrictions to be able to be placed at the dataset level. Are these types of requirements missing?	Ellen Chilikas (email 7/20)	9/15/95	Tom Smith	See also issue 31. DSS will provide restrictions at the Service level. Discretionary access control at the file or directory level is provided by the communications/operating infra-structure and DCE.	10/20/95	Closed	
210	PLs	Multiple comments on specific L4 Requirements for planning and processing in a 7/20 email	Lucy Lee (email 7/20)	8/15/95	Ramsey Billups	The specific L4 requirements issues have been individually addressed.	9/7/95	Closed	
211	Rel B	Four level 3 requirements related to external interoperability have been identified and the corresponding level 4s examined.	Yonsook Enloe	8/15/95	Mac McCreary			Open	
212	ISS	For LaRC please add a Sage III interface (and indicate interface to Mark Alabastro-George P.)	Chris Harris	8/15/95	Dean Moore	Even though little is known, SAGE III is shown as an interface for release B to Ingest. It is anticipated that SAGE III will come from Wallops Island to LaRC via EBnet. No additional ISS requirement is needed.	8/28/95	Closed	
213	Rel B	Would like to establish priorities by product (or perhaps even processing type) in addition to per-user priorities	Lucy Lee (note at end of review)	10/15/95	Steve Marley	Prioritization will be addressed in the push+pull scenarios and drill downs at IDR.	10/20/95	Closed	
214	INS	E-mail message from B. Jai identifies a set of missing INS requirements for the SeaWinds instrument and JPL DAAC	Ben Jai	8/15/95	Carey Gire	Requirements identified by Ben Jai in e-mail have been incorporated in to the 304 Document for IDR	9/27/95	Closed	
215	DPS	Shouldn't there be requirements as stated in the DPREP section for EOS-AM or EDOS as for ADEOS-II/SeaWinds?	Ben Jai (email 7/21/95)	8/15/95	Ramsey Billups	An L3 was added to identify Release A ancillary datasets. Issue 122 remains open to investigate Rel B ancillary data needs. The prelim. ESDIS list for B identifies ADEOS-2/AMSR level 2 data as not being preprocessed, not common instrument dataset	9/7/95	Closed	