

Response to Comment/Clarification Forms Received After ETS Detailed Design Review Management Presentation

Form ID	Originator	Description	Response								
CC-AK01.TXT	Angie Kelly	Presentation slide #101 states that acceptance testing will be conducted within the operational environment. I would like to know what are the anticipated requirements and schedule for using FOT resources and services during the acceptance test phase. Please E-mail your response to me. Thank you.	<p>The ETS acceptance test team provides the following estimates for the level of support required from the indicated external entities during the time period 10/1/96 - 11/26/96:</p> <table border="0" data-bbox="1331 386 1528 513"> <tr> <td>EDOS</td> <td>44 hrs.</td> </tr> <tr> <td>DAAC</td> <td>12 hrs.</td> </tr> <tr> <td>EOC</td> <td>40 hrs.</td> </tr> <tr> <td>SCITF</td> <td>8 hrs.</td> </tr> </table> <p>Please note, that these estimates were made prior to the completion of the Acceptance Test Procedures Document (ATPD). Once the ATPD is completed, and the ETS requirements are investigated in more detail, adjustments may be required to these estimations. A more detailed breakdown for each entity, based on test scenarios, is available upon request. The rough draft of the Acceptance Test Procedures Document (ATPD) is scheduled for the August timeframe. The combined test team is currently reviewing the system and acceptance test procedures and combining repetitive processes. Once this is completed, a test schedule will be provided.</p>	EDOS	44 hrs.	DAAC	12 hrs.	EOC	40 hrs.	SCITF	8 hrs.
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CC-AK02.TXT	Angie Kelly	The ETS development team should maintain stable MPS and LRS engineering models, i.e., unchanged by continued development and problem resolution activities, unless critical problems prevent their effective use.	ETS agrees.								

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CC-AK03.TXT	Angie Kelly	In regard to the prioritization of ETS resources and activities mentioned on presentation slide #111, I'm concerned about the priority of the "EGS Support" group in relationship to the other listed groups. Please provide a memo clarifying the anticipated approach for priority scheduling of these limited ETS resources.	<p>ETS development personnel met with representatives of the user community on July 23, 1996, in Building 32, Room S241, to discuss the upcoming availability of the ETS engineering models. During this discussion ETS personnel presented a proposed process for initial scheduling of the ETS engineering models. The ESDIS Resource Allocation Tool (RAT) will be used to schedule ETS time. Requests should be sent by email to Henry Zavaleta (henryz@rattler.gsfc.nasa.gov). Darryl Lakins, at a meeting the previous week, indicated that the priority scheme for ETS scheduling would be:</p> <ol style="list-style-type: none"> 1. ETS developers/trainers/testers 2. IATO (Jancice Smith's Group) 3. FOS 4. EDOS 5. Others <p>When requesting access to the ETS systems, users were asked to indicate whether ETS personnel were required as well as equipment. It was explained that if ETS personnel are required they are being pulled from other critical development and training activities. It is understood that some support is necessary, especially initially for training. Hugh O'Donnell has offered some SOC operator support for the ETS engineering models.</p> <p>During the discussion of the initial priority scheme for ETS utilization, as cited above, it had been noted that the IV&V team had indicated that they did not plan to use the systems until they were delivered to ESDIS. William Bryant, however, qualified that position and said they would like some initial time on the engineering models for familiarization training. It was suggested that they could share some blocks of time working with or looking over the shoulders of the FOT.</p>

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CC-AK04.TXT	Angie Kelly	Please be aware that the planned EBnet Critical Design Review in mid April necessitates EBnet obtaining final connectivity requirements from ETS now!	ETS has submitted their EBnet connectivity requirements.
CC-AK05.TXT	Angie Kelly	On presentation slide #112, the issue of floor space availability was mentioned. Please provide me, Mick Rackley, and Bob Dutilly with the latest ETS floor space requirements at the EOC.	EOC facility plan shows ETS LRS and MPS user terminals in the Simulator and Sustaining Engineering Room and the LRS and MPS VME hardware racks in the EOS Equipement Room. Area location of ETS HRS and MPS units in EDOS facility plan have been identified. Specific equipment foot print is TBD. Memos detailing facility floor space and power requirements at each ETS location have been distributed by ATR to EOC and EDOS facility managers on 6/4/96.

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CC-DL01.TXT	Darryl Lakins	<p>Presentation slide #87 recommends the Comprehensive Discrepancy System (CDS) for ETS problem reporting. I would like the ETS team to identify those individuals who have a legitimate need for insight into the ETS problem resolution process and follow that up by assisting them in obtaining CDS connectivity. Let me know who those individuals are and any problems that require my intervention.</p>	<p>A request has been provided to ATSC to set up an ETS mission in the CDS, and install client s/w on workstations of individuals who will need access to the problem report tracking system during ETS development and testing. Individuals representing the following organizations have been identified</p> <table border="0"> <tr> <td><u>Development</u></td> <td><u>Test</u></td> </tr> <tr> <td>MPS</td> <td>LRS and HRS system test</td> </tr> <tr> <td>HRS</td> <td>ETS integration test</td> </tr> <tr> <td>LRS</td> <td>ETS combined test</td> </tr> </table> <p>Quality Assurance; ESDIS Project; ETS ATR; EOS MOM</p> <p>A recent CDS user query identified the following individuals as registered users:</p> <p>Alger, John Bernard, Angela Buckley, Joe Carlson, Jean Centa, Alan Dempewolf, Sandy Ehlers, Dave Fuller, Willie Haynes, Karen McGarry, John Noone, Estelle Pisano, Joe Medina, Johnny Nguyen, Richard</p> <p>ATSC continues to make arrangements to install CDS client s/w to provide access to additional individuals.</p>	<u>Development</u>	<u>Test</u>	MPS	LRS and HRS system test	HRS	ETS integration test	LRS	ETS combined test
<u>Development</u>	<u>Test</u>										
MPS	LRS and HRS system test										
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CC-DP01.TXT	Deborah Perilman	ETS Training Management Plan: There is no mention of training the user or operators on the use of external utilities, such as loading the project data base or changing the algorithm for selected parameters.	The training curriculum is being reevaluated in an effort to provide suitable content and convenient schedule. The results of this effort will be summarized at the TICTOC meeting on August 14, 1996.
CC-DP02.TXT	Deborah Perilman	ETS Detailed Designed Review Management Presentation, Page 102: Since the acceptance team will require support from the different organizations. Does the acceptance team know how much support it will require from FOT and EDOS and what time frame?	Refer to CC-AK01.TXT for anticipated requirements and schedule for using FOT and EDOS resources and services during the acceptance test phase.
CC-DP03.TXT	Deborah Perilman	Prior to delivery, who is responsible for resolving outstanding DRs?	<p>As stated in the ETS Integration Test Plan/Procedures, dated March 1996 and later modified under the Combined NMOS contract, problems detected during integration and combined testing by the combined test team will be documented in internal discrepancy reports (IDRs). IDRs will be provided to the ETS development team and systems engineer for analysis, after which time they will determine the probable CIs that are impacted and will identify the responsible development organization. Problems that affect Code 520-developed CIs will be forwarded to the ETS team lead in the System Applications Section for assignment and resolution, whereas other problems will be resolved by the CSC development team. After receiving responses to the IDRs, the test team will schedule time for testing resolution of the IDR.</p> <p>IDRs that are not resolved prior to completion of combined testing remain documented and are converted to DRs when ETS is delivered to the ESDIS Project. Subsequent to delivery to ESDIS, any identified problems found in the delivered systems will be resolved by the ETS maintenance organization.</p>

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CC-DP04.TXT	Deborah Perilman	Requirement for EBnet to support ETS should be defined soon. Also EBnet should be made aware of the need of a connection between the SOC and building 32 if any early testing is to be accomplished. Otherwise there is no reason for an early release.	<p>In support of the joint development of the EBnet-ETS ICD, ETS personnel requested EBnet connectivity from the SOC in Building 25 to the EOC in Building 32. Specifically, ETS requested:</p> <ul style="list-style-type: none"> • EBnet IP interface between the MPS at the SOC and the EOC by 7/15/96 to support the MPS engineering model, which will be available for use by EOC personnel on a scheduled basis after 8/1/96 • EBnet IP interface between the LRS at the SOC and the EOC by 8/15/96 to support checkout of the LRS engineering model, before it is made available for use by EOC personnel on a scheduled basis after 9/3/96 • EBnet clock and data interface between the LRS and the GSFC switch to the spacecraft checkout station (SCS) in Valley Forge, PA, by 10/96, if the LRS is needed to support the EOC Compatibility Testing (ECT) activities from Building 25
CC-GA01.TXT	Gary Alcott	Presentation slide #101 states that acceptance testing will be conducted within the operational environment. I would like to know what are the anticipated requirements and schedule for using EDOS resources and services during the acceptance test phase. Please E-mail your response to me. Thank you.	Refer to CC-AK01.TXT for anticipated requirements and schedule for using EDOS resources and services during the acceptance test phase.
CC-GA02.TXT	Gary Alcott	As a result of the adjusted ETS Reshape configuration in which ETS will be located with EDOS at GSFC, I just want to reconfirm what was said in response to my question at the review that ETS will be able to transmit data to EDOS at 45 Mbps. This data interface would be identical to that at TGT, and the data content would be the same as needed for the TGT-EDOS interface. The only difference would be the data rate, which would be 45 Mbps (the rate buffered data rate from WSC to GSFC) rather than 150 Mbps.	To support local testing at the EDOS-GSFC facility, ETS will be able to generate and transmit data to EDOS at 45 Mbps, if this is required.

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CC-GA03.TXT	Gary Alcott	It appears the type of training that will be provided to users as part of the ETS development activity and turnover to ESDIS will be limited to the use and operation of the ETS systems. The training will presuppose that those individuals receiving the training have knowledge of the EOSDIS elements that ETS will be used to test or simulate and of the formats of the data that ETS will be used to generate for the specific tests. For example, the ETS training will show a tester how to generate simulated science data using SCTGEN, but it will not provide instruction of the operation of the AM-1 solid state recorder that plays back science data.	The training curriculum is being reevaluated in an effort to provide suitable content and convenient schedule. The results of this effort will be summarized at the TICTOC meeting on August 14, 1996.
CC-HZ01.TXT	Henry Zavaleta	The ETS project schedules do not indicate when training is to begin. Training needs to be scheduled so that the testers and test developers can identify participants.	The training curriculum is being reevaluated in an effort to provide suitable content and convenient schedule. The results of this effort will be summarized at the TICTOC meeting on August 14, 1996.
CC-HZ02.TXT	Henry Zavaleta	ETS Training Management Plan. Section 3 page 3-1: The training schedule for Session 1 is still TBD. Session 2 is to start on April 1. This does not provide much time for the attendees to be identified. As the schedule stands now I am not sure that the IV&V team knows that they are to provide candidates for the training or that they are to have procedures to build.	The training curriculum and products are being reevaluated in an effort to provide suitable content and convenient schedule. The results of this effort will be summarized at the TICTOC meeting on August 14, 1996.
CC-HZ03.TXT	Henry Zavaleta	ETS Training Management Plan: As a summary of the training activities this document is a good starting point. Are there any plans to produce a more detailed document? If not, then this document is a good beginning, but needs to go into more detail of how, what and when this training is to occur.	The training curriculum and products are being reevaluated in an effort to provide suitable content and convenient schedule. The results of this effort will be summarized at the TICTOC meeting on August 14, 1996.

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CC-HZ04.TXT	Henry Zavaleta	ETS Detailed Design Review Management Presentation: On page 12 of the presentation the first bullet indicates that there is a potential problem with ETS MPS being placed here at GSFC. I was under the impression that two MPS were being built. This means that one could be placed here at GSFC and the second a White Sands if necessary.	There are two MPS units being developed. The ESDIS Project will determine where the units are located. It was assumed that because the low-rate return- and forward-link processing functions of EDOS had been moved to GSFC from WSC as part of Reshape that the MPS would also be home-based with EDOS at GSFC, where it would be used most heavily. It could be taken to WSC or other EOSDIS ground stations or to any other location at ESDIS Project direction to support interface testing of low-rate return- and forward-link data flows.