

ECS Evaluation Packages

EP4 Consent to Ship Review

December 14, 1994

EP4 CSR Agenda

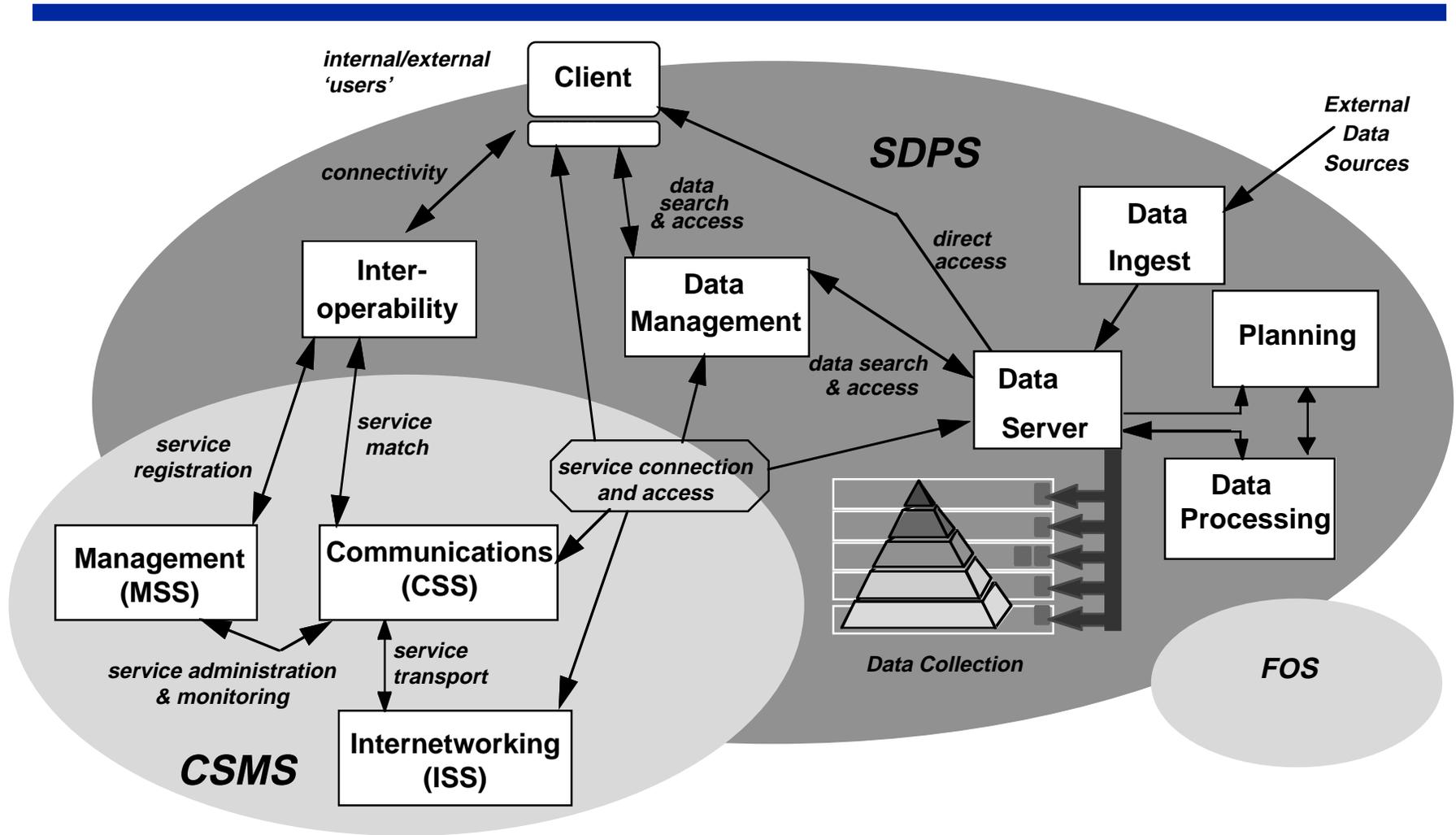
Purpose of EP4 CSR

- Held when testing indicates EP is functioning well and all NCRs which might compromise its operation have been resolved.
- Review final content, review test status, and obtain approval to move the EP to broader visibility by installing it at the DAACs for system-wide testing.

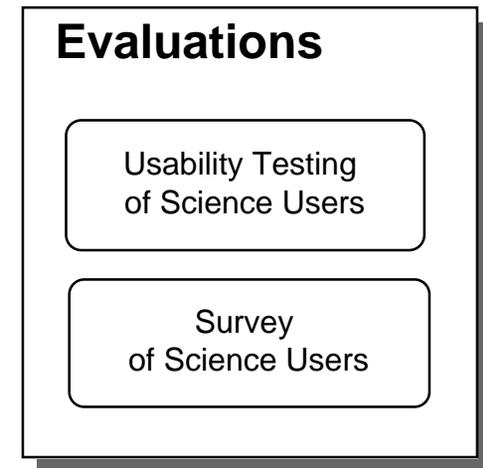
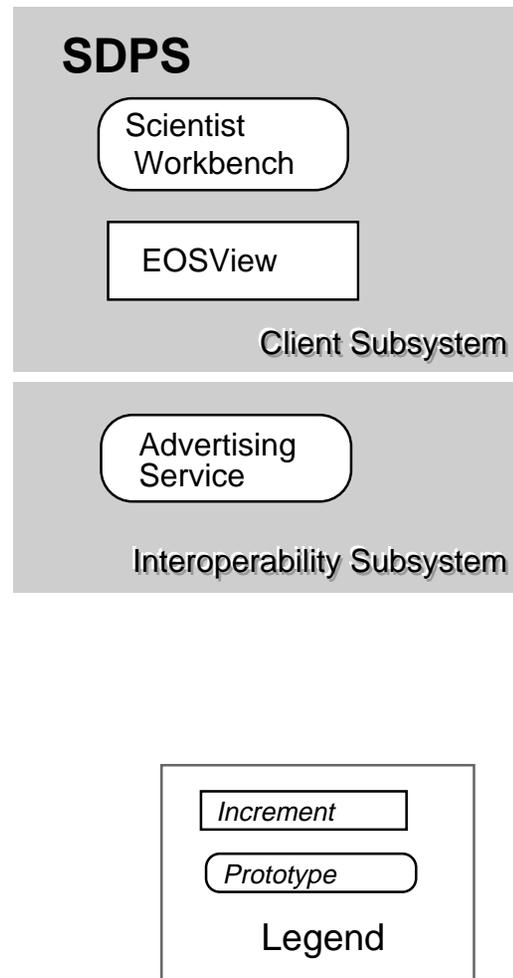
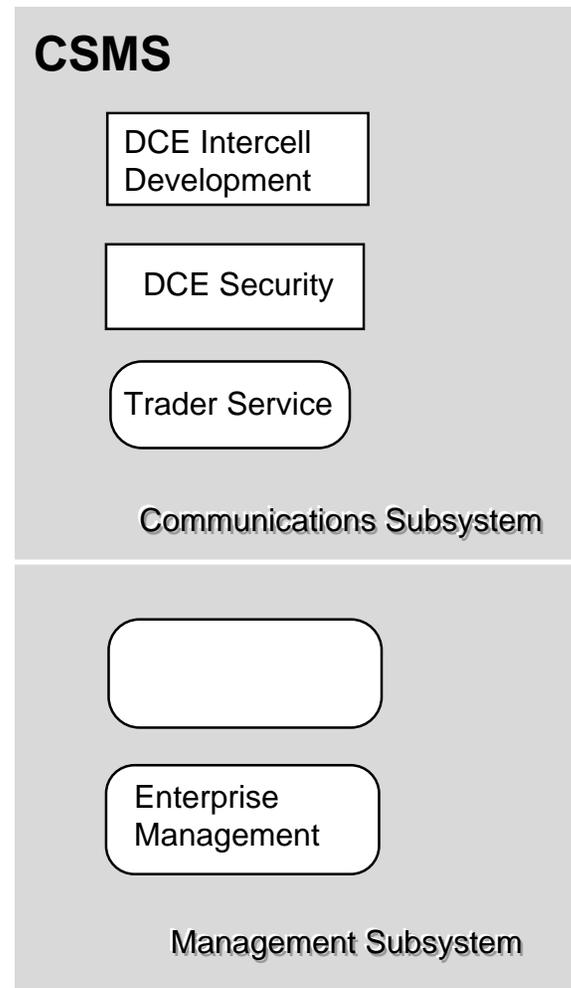
Agenda

- 4:00 EP4 Overview - George Percivall
- 4:10 SDPS EP4 Prototype Status - Lynne Case
- 4:25 SDPS EP4 EOSview Status - Brand Fortner
- 4:35 CSMS EP4 CSR Status - Laks Prabhala
- 4:45 EP4 Integration and Test - Gil Tadmor
- 4:55 EP4 Evaluation Plan - Jan Poston
- 5:10 Action Items and Next Steps - George Percivall
- 5:20 Adjourn

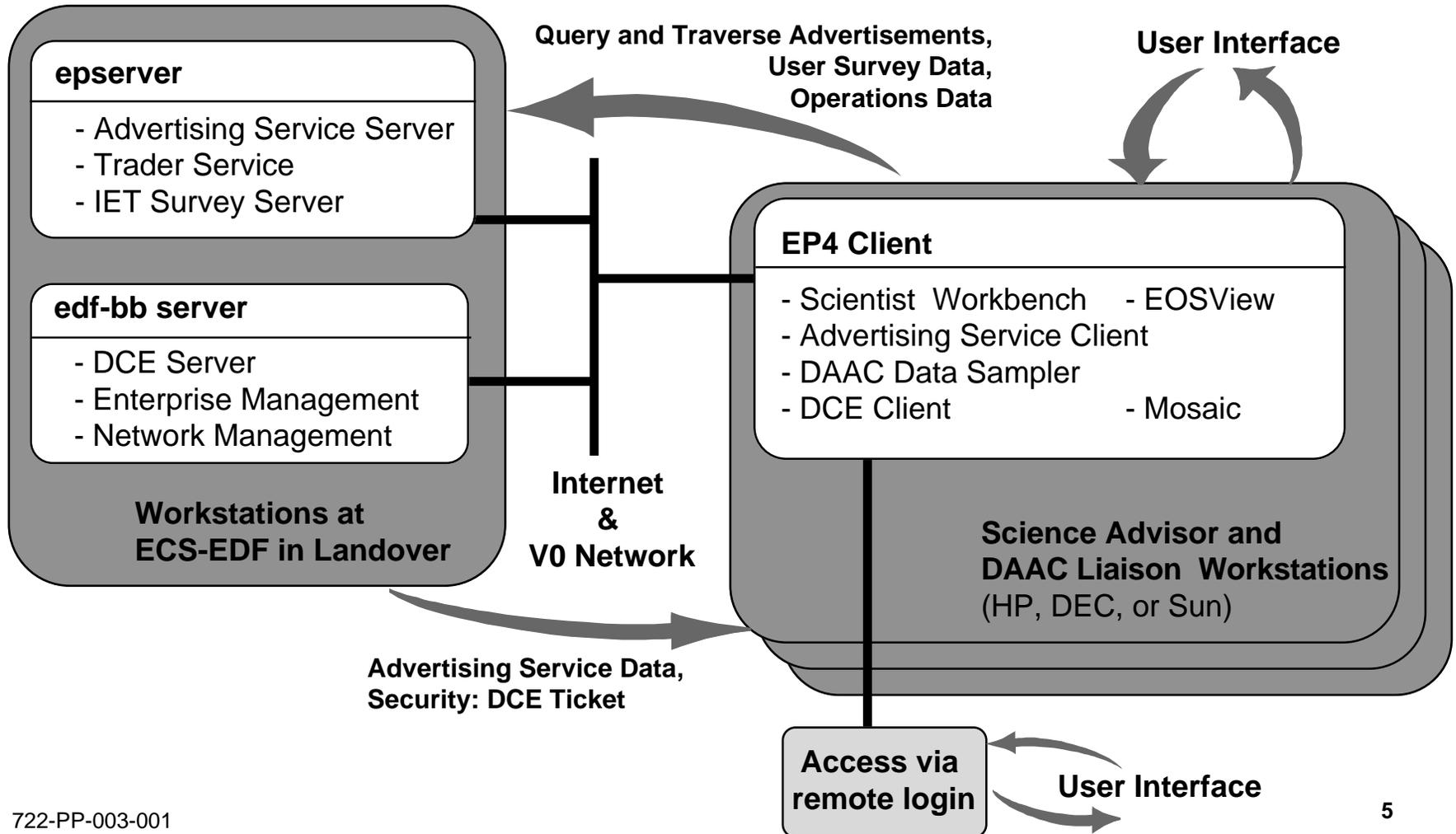
ECS EP Context



Summary of EP4



EP4 Physical Configuration



DAAC Liaison Workstations for EP4

DAAC	Machine Name	Machine Type
ASF	Borealis	DEC
ASF	Trouble	HP
EDC	ECS-ALPHA1	DEC
EDC	ECS-HP1	HP
GSFC	ECS-GLOBAL	DEC
GSFC	ECSGSFC1	HP
JPL	Searider	Sun
JPL	Wave	HP
LaRC	ECS	HP
MSFC	Hydra	HP
MSFC	Meteor	DEC
NSIDC	Snowfall	HP

Science Advisor Hosts for EP4

Science Advisor/ Affiliation	EP4 Client Host	DCE on Host
Dan Baldwin Univ. of Colorado	DEC Alpha OSF/1 V3.0	?
Peter Evans University of Miami	DEC Alpha OSF/1 V3.0	?
Sundar Christopher South Dakota School of Mines	remote login	not applicable
Nigel Hinds Univ Of Michigan	Sun: Solaris 2.3	?
Dave Emmitt Univ of Virginia	HP UX version 9.05	?
Mary James GSFC DAAC	remote login	not applicable
Liz Smith Old Dominion	remote login	not applicable
Debbie Blake ESDIS-GSFC	DEC, Sun, or HP?	?

DCE Client is required to host EP4

Percivall to contact each Science Advisor hosting EP4 re. installation

EP4 Client Workstation Requirements

Platforms for EP4 Client

HP: HP UX 9.05

DEC: OSF/1 Version 3.0

Sun: Solaris 2.3

Memory Required

500K to 2.6 MB depending on data file in use

6 concurrent EOSView animations, full speed on a 32 MB machine

COTS Required: DCE Client, Motif Window Manager

Disk Required: 250 MB (includes binaries, data, DCE client)

CSR Issues

- **Code Status**
 - All files baselined in configuration management tool (ClearCase)
- **Test Completion**
 - All tests cases executed
 - Regression testing continues
- **NCRs Status**
 - No unresolved, severity level 1, Non-Conformance Reports (NCRs) (Level 1 = catastrophic and unrecoverable)
 - TBD NCRs listed as advisories in users guide
- **Real Time Telecon Updates**
 - Charts in this presentation have status current of 12/12 5:00 p.m.
 - Updates verbally identified during telecon

SDPS EP4 Prototype Status

**Lynne Case
SDPS**

EP4 CSR

December 14, 1994

EP4 CSR : Scientist Workbench

- **Code Status**

Complete

- **NCR Status - 29 NCRs**

No Open NCRs

28 Bugs Fixed

- **Issues**

NCR 382 - The workbench does not work when running the native Sun application under OpenWindows. Running a remote application to a Sun with the olwm is ok. Running a native Sun application under Motif is ok. Possibly defer this depending on availability of Motif window manager on the necessary systems.

EP4 CSR : Advertising Service

- **Code Status**
Complete
- **NCR Status - 16 NCRs**
No Open NCRs
16 NCRs resolved
- **Issues**
No deferred NCRs.

EP4 CSR : Help

- **Code Status**
Complete
- **NCR Status - 2 NCR**
No Open NCRs
1 NCR resolved
- **Issues**
NCR 399 No help for IET was planned or needed.

EP4 CSR : Interactive Evaluation Tool - IET

- **Code Status**
Complete
- **NCR Status - 7 NCRs**
No Open NCRs
7 NCRs resolved
- **Issues**
No outstanding issues.

SDPS EP4 EOSView Status

**Brand Fortner
SDPS**

EP4 CSR

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EP4 CSR : EOSView

- **Code Status**
 - Complete
- **NCR Status - 24 NCRs**
 - No Open NCRs
 - 5 “postponed” (See Issues)
- **Issues**
 - NCR 351 - Color Palette**
 - Long term solution - remap image pixel values
 - If palette truncated, image may lose colors
 - If 256 color mapping, image may go technicolor
 - NCR 352 - Warning Messages On Startup**
 - Not an error- Motif generated, platform dependent
 - NCRs 411, 440, 445 - Memory limit errors attributed to in-house development environment, will verify in deployed**

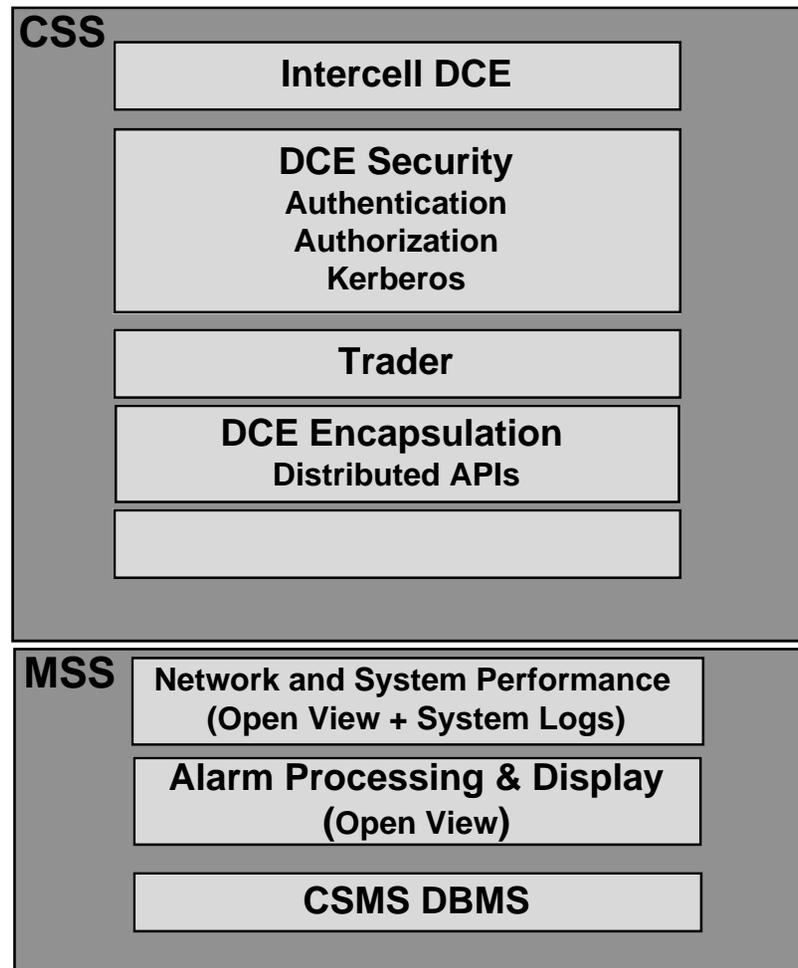
CSMS EP4 CSR Status

**Laks Prabhala
CSMS**

EP4 CSR

December 14, 1994

CSMS - EP4 Summary



Code and NCR Status

Code Status

Complete

Unit Test Complete

I & T (Gil to cover)

Code completely under CM (clearcase)

NCR Status

12 NCR Total

11 Resolved

1 Pending

Peer Reviews

Completed

EP4 - Issues and Deployment

**DCE & OS upgrades completed on EP4 Server Machines
EDF-BB and EPSERVER**

DCE and OS Upgrade currently underway at DAACs

DAAC Workstations and V0 Network

Network Performance and Management Evaluation

EP4 Integration and Test

**Gil Tadmor
CSMS**

EP4 CSR

December 14, 1994

Overview

- **Test Status**
- **NCR Summary**
- **Installation Plan**
- **Operational System Test**

Test Status

Total Number of Test Cases	42
Test Cases Executed	38
Test Cases Withdrawn	4
Remaining Tests for Execution (12/14/94)	0

- **EP4 I&T Plan transitioned to the EP4 I&T Notebook**
- **Appendix A of I&T Notebook includes all test procedures / scripts**
- **Appendix B of I&T Notebook includes all test reports**
- **Of the Completed Tests 30 already have reports generated**

- **Resolved NCRs to be verified by 12/14/94**
- **Test Reports to be completed by 12/16/94**

EP4 NCR Summary

Total Problems by Severity

Severity 1	14 (11.86%)
Severity 2	28 (23.73%)
Severity 3	56 (47.46%)
Severity 4	9 (7.63%)
Severity 5	11 (9.32%)
TOTAL	118

Report Date: 12/12/94 16:19

Unresolved Problems

		CSR Update
Severity 1	0	—
Severity 2	10	—
Severity 3	6	—
Severity 4	1	—
Severity 5	4	—
TOTAL	21	—

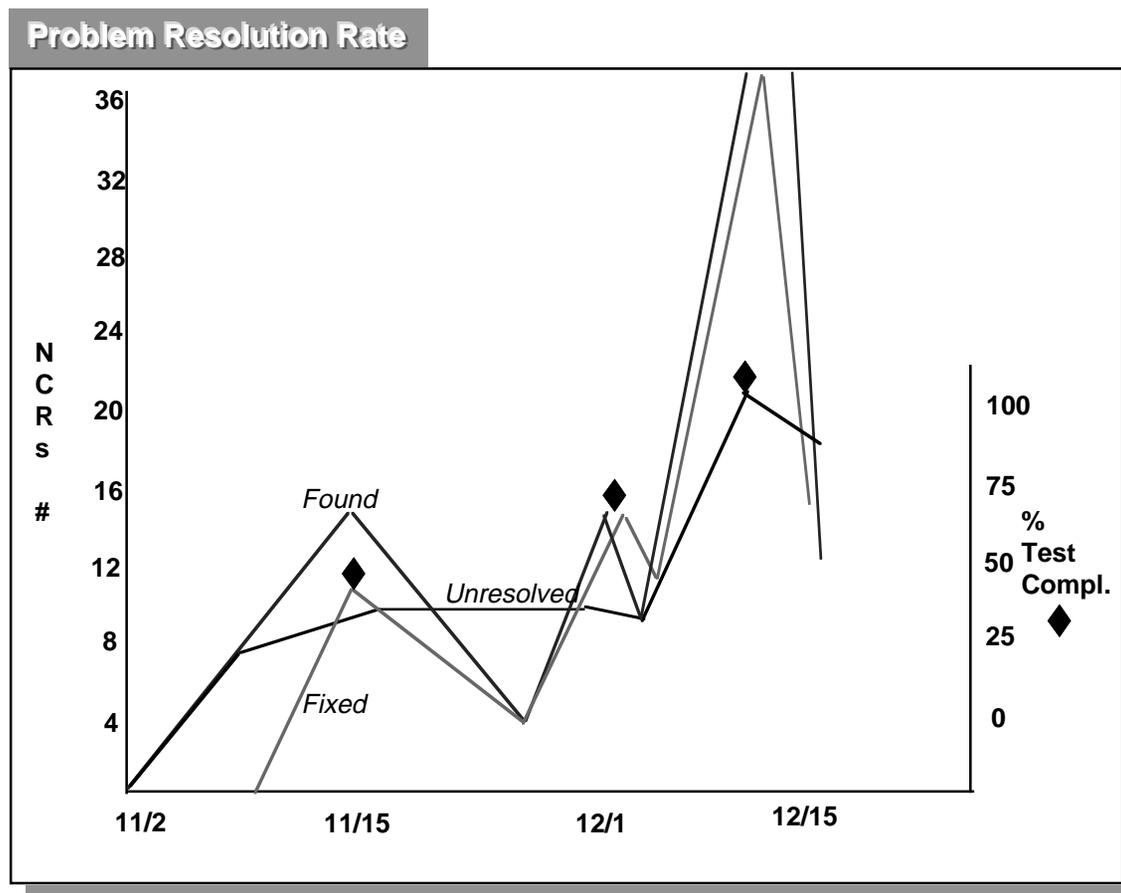
Report Date: 12/12/94 16:19

Total Problems by State

New	1 (0.85%)
Assigned	2 (1.69%)
Open	18 (15.25%)
Resolved	12 (10.17%)
Verified	71 (60.17%)
Duplicate	14 (11.86%)
Postponed	0 (0.0%)
TOTAL	118

Report Date: 12/12/94 16:19

EP4 NCR Summary (Cont.)



Report Date: 12/12/94 16:19

EP4 NCR Summary (Cont.)

NCR Severity Level Definitions:

- Severity 1 - Catastrophic bug without work around that causes total failure or unrecoverable data loss.**
- Severity 2 - Bug which severely impairs functionality. Work around might exist but is unsatisfactory.**
- Severity 3 - Bug that causes failure of noncritical system aspects. There is a reasonably satisfactory work around.**
- Severity 4 - Bug of minor significance. Work around exists or, if not, the impairment is slight.**
- Severity 5 - Very minor defect. Work around exists or the problem can be ignored.**

Installation Plan

- Detailed installation procedures are included in the EP4 Deployment Document
- Installations will begin upon successful completion of CSR
- EP4 Servers will be installed first and verified as operational (epserver and edf-bb)
- EP4 Client Installations will follow as indicated below (see separate tables for specific DAAC and Science Advisor installation dates)
- I&T POCs to coordinated the installation with the DAAC Liasons (e.g., file transfers and directory creations)

	<i>EP4 Servers</i>	<i>EP4 Client DAACs</i>	<i>EP4 Client Sc. Advisors</i>
Installation	12/12-14	12/19-21	1/3-8
System Test	12/12-14	12/21-28	1/10-12

Installation Plan - DAACs

DAAC	Hostname	Host Type	IP Address	DAAC POC	I&T POC	Install Dates	Test Dates
ASF	Trouble Borealis	HP DEC	137.229.37.51 137.229.37.52	Ellen Chilikas (907) 474-7329	JY / DW	12/19-21	12/21-28
EDC	ECS-HP1 ECS-ALPHA1	HP DEC	156.61.192.99 156.61.192.100	John Daucsavage (605) 594-6816 Saud Amer (605) 594-6864	TC / KM	12/19-21	12/21-28
EDF	edf-bb epserver	HP HP	192.150.28.18 192.150.28.17	HTSC	GT / DK	12/12-14	12/14
GSFC	ECSGSFC1 ECS-GLOBAL	HP DEC	128.183.118.44 128.183.118.45	A.K. Sharma (301) 286-2709 Carolyn Whitaker (301) 925-0479	LC / DW	12/14-16	12/15-16
JPL	Wave Searider	HP SUN	137.78.32.81 137.78.32.82	Don Merritt (818) 306-6061 Glenn Shirtliffe (818) 354-4527	DK / DW	12/19-21	12/21-28
LaRC	ECS	HP	192.107.191.24	Dan Chrisman (804) 864-8889	KM / DW	12/19-21	12/21-28
MSFC	Hydra Meteor	HP DEC	128.158.25.18 128.158.25.17	Danny Hardin (205) 922-5804	LC / MM	12/19-21	12/21-28
NSIDC	Snowfall	HP	128.138.135.40	Marilyn Kaminski (303) 492-1477	MM / DW	12/19-21	12/21-28

Installation Plan - Sc. Advisors

Operational System Test

- **Upon successful EP4 Client installations - regression test EP4**
- **Re-use of Xrunner scripts and I&T drivers**
- **Verify that EP4 Clients are operational**
- **Operational Tests to be completed by 12/22/94**

EP4 Evaluation Planning

**Jan Poston
SI&P**

EP4 CSR

December 14, 1994

Key Terms

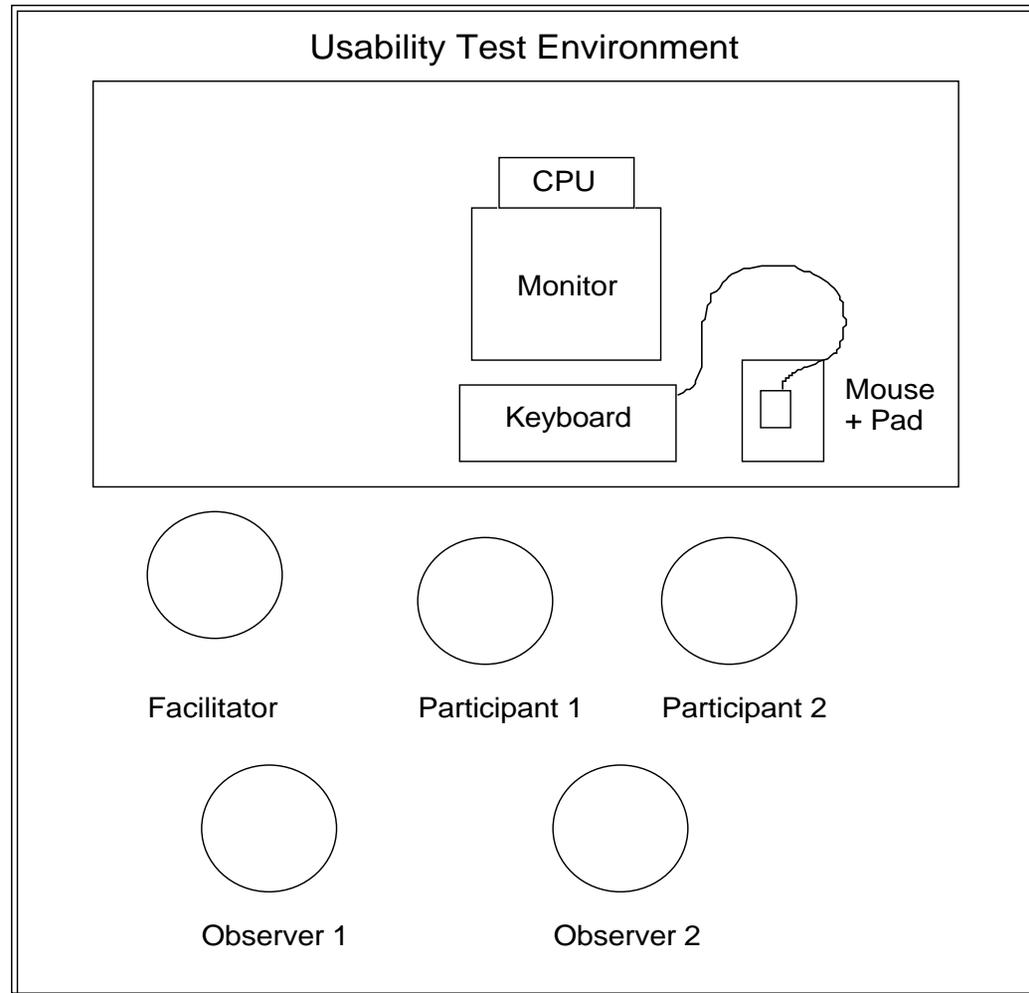
Usability Participants are those who represent, or who are in fact, potential end users of the ECS. They will evaluate the EP4 during usability test sessions.

Independent Evaluators are those who represent, or who are in fact, potential end users of the ECS. They will access EP4 at their own convenience, using their own resources, in an uncontrolled, or independent environment.

Evaluation Period will start on January 4th and continue to February 28th.

Demonstration Scripts are pre-recorded commands linked together in a script format that allows simple and complex commands to be executed on the EP4 system and run as a demonstration

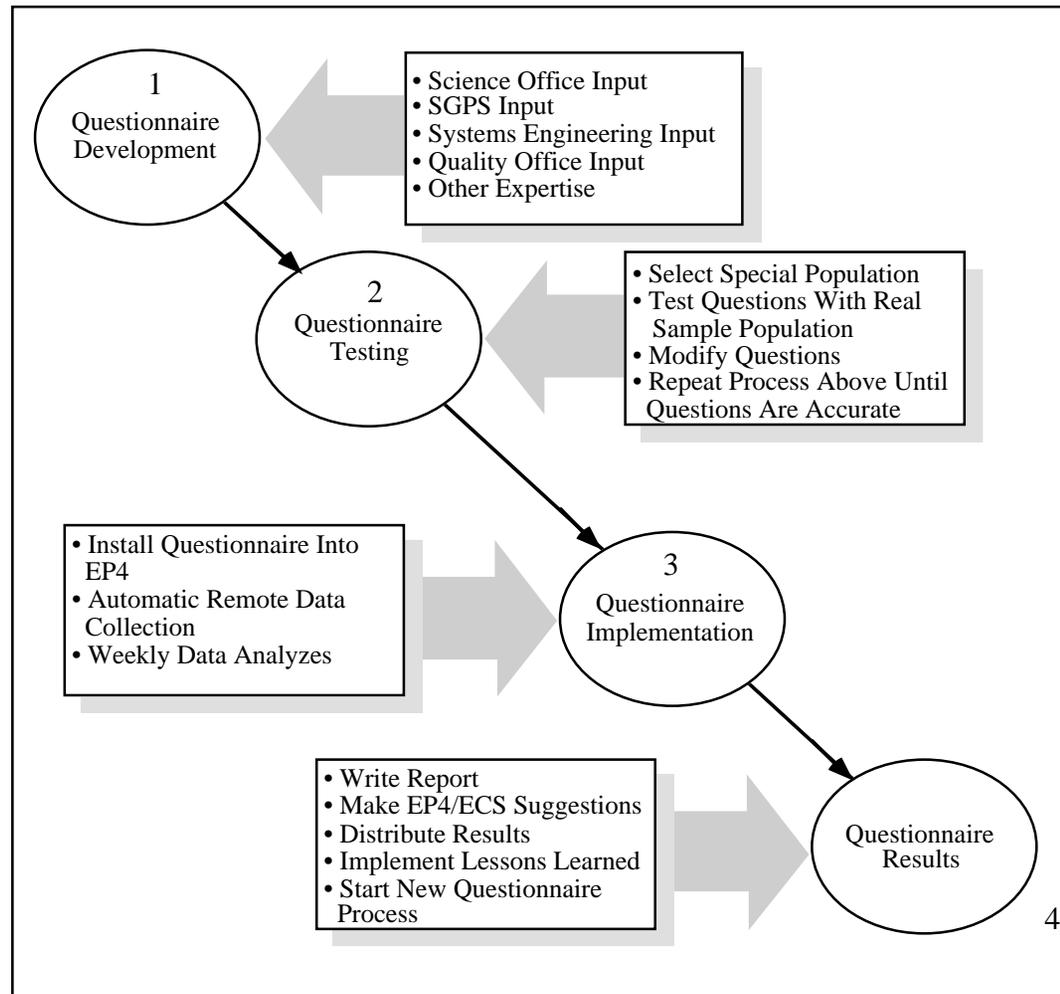
Usability Test Environment



Usability Test Schedule

- **Each test session will be allocated 2 hours.**
- **Test Participants will be introduced to the Observers, the test environment, and the schedule for the test by the Facilitator, the host of the usability test session.**
- **A short Overview Demonstration will be shown to the Participants.**
- **The Participants will execute the usability tasks.**
- **After the tasks the Participants will take the IET survey.**
- **At the conclusion of the test, the Participants will be given a choice of a candy treat as a Thank You.**
- **Once the Participants have left, the Facilitator and the Observers will debrief and then transcribe their notes from the session**

IET Survey Development and Implementation Process



Overview Demonstration Script (pg 1 of 2)

- 1. Start up Scientists Workbench**
- 2. Connect to EP4 (login)**
- 3. Describe Workbench, explain that you can re-organize it, show the help, etc.**
- 4. User "drag and drop" to activate a simple script in EOSView**
- 5. Double-click and visualize an image for display**
- 6. Scan through directories and open a simple animation file**
- 7. Animate file**
- 8. Close EOSView and return to Workbench**

Overview Demonstration Script (pg 2 of 2)

9. Activate Advertizing Service

a) Hyperlink through "Service Types"

- go through the service classes shown
- select an individual service
- run service or data from the Advertising Service
- Install a service ("drag and drop"), return to home page

b) Search for Advertisements

- go to Data Search
- fill in the form
- examine the list of datasets and services
- hyperlink to full dataset description, return to home page

c) Providers

- select a data provider to get a list of contacts & descriptions

10. Return to Workbench

Survey Data Distribution Policy

- **Registered evaluators given unique user name and password. Comments and survey information linked to the user**
- **Non-registered evaluators log-in using the “guest” account. Guest comments will be evaluated and the survey data included. Guest comments not attributed to a specific individual.**
- **To protect the integrity of the evaluation, when the comments and survey results are reported, individuals’ names will not be linked to specific comments.**
- **Upon request, listing of comments made by evaluator provided only to evaluator. Evaluator is free to publish comments.**
- **During analysis of data, groupings of comments may be used to determine unique tendencies in data. Examples of groups: specific DAAC, or users services evaluators.**
- **Summary of results, indications for changes, and plans for implementing the changes will be presented in an EP4 Evaluation Results document.**

EP4 Independent Evaluators (pg 1 of 5)

Evaluator Name	EP 4 Client Site	EOS/DAAC Role	DCE/Sybase/Unix Name (same for all if one name)
Peter Evans	Univ of Miami	EP Tirekicker, DEC Alpha OSF/1 V3.0	pevans
Sundar Christopher	EDC(?)	EP Tirekicker, remote login,	schristo
Nigel Hinds	Univ Of MI	EP Tirekicker, Sun Solaris 2.3	nhinds
Dave Emmitt	Univ of VA	EP Tirekicker, HP UX version 9.05	demmitt
(additional D. Emmitt evaluators)	Univ of VA		
Mary James	GSFC DAAC	EP Tirekicker, remote login	mjames
Liz Smith	LaRC DAAC	EP Tirekicker, remote login	lsmith
Dan Baldwin	Univ CO	EP Tirekicker, DEC Alpha OSF/1 V3.0	dbaldwin

EP4 Independent Evaluators (pg 2 of 5)

Evaluator Name	EP 4 Client Site	EOS/DAAC Role	DCE/Sybase/Unix Name (same for all if one name)
Elaine Dobinson	JPL	Assistant DAAC Manager	erd
Tom Antczak	JPL	Version 0 - Version 1 Transition Systems Engineer	antczak
Mike Kolar	JPL	IMS Development	mmk
Susan Digby	JPL	PODAAC User Services Office	sdigby
Greta Reynolds	ASF	User Services	greynolds
Nettie LaBelle-Hamer	ASF	User Services	nettie
Michelle Barr	ASF	User Services	mbarr
Norm Cushing	ASF	V0 development	ncushing
Tracy Zeiler	ASF	V0 development + a Design WG member	tzeiler
Lyn McNutt	ASF	ASF Chief Scientist	lyn
Rob Wade	ASF	an ASF scientist	rwade
Tom George	ASF	ASF DAAC manager	tgeorge
Ruth Duerr	ASF	ASF Special Assistant and Design WG member	rduerr

EP4 Independent Evaluators (pg 3 of 5)

Evaluator Name	EP4 Client Site	EOS/DAAC Role	DCE/Sybase/Unix Name (same for all if one name)
James B. Frenzer	LaRC	LaRC DAAC CSC lead	jfrenzer
Jeff I. Cleveland III	LaRC	IMS lead developer	jclevea
Lise D. Maring	LaRC	User Services	lmaring
Susan E. Sorlie	LaRC	User Services	ssorlie
Christopher J. Harris	LaRC	Systems Engineering	charris
Lucy. L. Lee	LaRC	Systems Engineering	llee
P. Kay Costulis	LaRC	CERES developer	pcostulis
Paul Bailey	LaRC	NCAR/MOPITT	pbailey
Alison Walke	LaRC	NASA Goddard Institute for Space Studies, NYC	awalke
Donna Vulcan	LaRC	South Dakota School of Mines and Technology	dvulcan
Cheryl Craig	LaRC		
Chuck Spaur	LaRC		
Dan Packman	LaRC		
George Mandler	NSIDC		gmandler
Michelle Holm	NSIDC	User Services	mholm
Koni Steffen	NSIDC	Chairman of the PoDAG	
Karen Robinson	NSIDC		krobinso
Helen Conover	MSFC	V0 IMS Developer	
Bruce Beaumont	MSFC	SW Development	
Janice Tillman	MSFC	User Services	
Tim Blanton	MSFC	System Engineering	

EP4 Independent Evaluators (pg 4 of 5)

Evaluator Name	EP4 Client Site	EOS/DAAC Role	DCE/Sybase/Unix Name (same for all if one name)
Sheri Fick	EDC	Software Development	sfick
Laura Huewe	EDC	Software Engineer	lhuewe
Lynn Steenson	EDC	Data Management	lsteenson
Chuck Larson	EDC	Data Production	clarson
Steve Johnson	EDC	User Service	sjohnson
Ron Lietzow	EDC	DSB-ISD-ISM	rlietzow
Tom Kalvelage	EDC	CSB	tkalvela
Bryan Bailey	EDC	LPDAAC Science Advisory Panel Co-chair,EDC DAAC Scientist	bbailey
Kevin Larson	EDC	SAB	klarson
Chris Justice	EDC	LPDAAC Science Advisory Panel Member	cjustice
Robin Bell	GSFC	GDAAC Scientist, Educational Initiative	rbell
Dan Ziskin	GSFC	GDAAC Scientist, Data Support	dziskin
Warren Wiscombe	GSFC	GDAAC Project Scientist	wwiscomb
Chris Lynnes	GSFC	GDAAC Chief Engineer	clynnes
Bruce Vollmer	GSFC	Alg I&T/Data Support Specialist	bvollmer
George Serafinp	GSFC	GDAAC Data Support Manager	gserafin
Jim Closs	GSFC	Manager user services	jcloss

EP4 Independent Evaluators (pg 5 of 5)

Evaluator Name	EP4 Client Site	EOS/DAAC Role	DCE/Sybase/Unix Name (same for all if one name)
Marti Szczur	ESDIS		mszczur
Debbie Blake	ESDIS		dblake
Dan Marinelli	ESDIS		dmarinel
John Berbert	ESDIS		jberbert
Greg Hunolt	ESDIS		ghunolt
Curt Schroeder	ESDIS		cschroed
Ed Lewis	ESDIS		elewis
Gail McConaughy	ESDIS		gmcconau
Sol Broder	ESDIS		sbroder
Ken McDonald	ESDIS		kmcDonald
David Han	ESDIS		dhan
Mike Moore	ESDIS		mmoore
Ellen Herring	ESDIS		eherring

Action Items and Next Steps

**George Percivall
SI&P**

EP4 CSR

December 14, 1994

Open EP4 Action Items

#	Open Date	Description	Response By	Resolution	Due Date
23	10/5/94	List of EP4 Evaluators: user id (as defined by user, 8 characters max) and evaluators name	Percivall	Draft list in CSR package, continue to refine until EP4 Readiness Review	1/4/95
25	11/2/94	Investigate keystroke capture tool for use in EP evaluations Follow up with D. Emmitt.			12/22/94
26	11/2/94	Indicate number of pages in telecon presentations on e-mail message	Percivall	Verify retrieval of package for CSR	12/8/94
28	11/2/94	Develop policy for tracing user comments on EP4	Percivall	Contained in User Evaluation section of CSR presentation	12/8/94
29	11/2/94	How will guest logins use any DCE services?		Set DCE guest user privileges equal to named user. Will not be able to link comments to an individual	12/22/94