

814-RD-004-002

## **EOSDIS Core System Project**

# **Interim Release One (Ir1) Version Description Document (VDD) for the ECS Project**

Version 1.01

January 31, 1996

Hughes Information Technology Systems  
Upper Marlboro, Maryland

# Interim Release One (Ir1) Version Description Document (VDD) for the ECS Project

Version 1.01

January 31, 1996

Prepared Under Contract NAS5-60000

## SUBMITTED BY

R. E. Clinard /s/	2/20/96
Robert E. Clinard, ECS CCB Chairman	Date
EOSDIS Core System Project	

**Hughes Information Technology Systems**  
Upper Marlboro, Maryland

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# Preface

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This document describes the configuration and the delta changes to Interim Release One (Ir1) depicted in Version 1.00 (see VDD, 814-RD-004-001) and will be referred to as Version 1.01. This attachment reflects updates to software released as of January 3, 1996. It is not a formal deliverable and does not require Government approval. However, it has been placed under configuration control by the ECS CCB. Changes to this document shall be made by document change notice (DCN) or by complete revision.

Any questions regarding distribution should be addressed to:

Data Management Office  
The ECS Project Office  
Hughes Information Technology Systems  
1616 McCormick Dr.  
Upper Marlboro, MD 20774-5372

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# Abstract

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This document describes the delivery contents of Ir1 (also referred to as *the product*) components including Commercial Off-The-Shelf (COTS) hardware and software (*Ir1 COTS*), Version 1.00 of custom Ir1 ECS software (*Ir1 Software*) and accompanying documentation.

The purpose of this document is to describe the contents of the Ir1 delivery. It briefly describes the capabilities of the product, provides an inventory of the delivery, lists unresolved problems, and addresses issues such as special operating instructions, system limitations, and disclaimer notices for public domain software used in the product.

This document describes the configuration and the delta changes to Interim Release One (Ir1) depicted in Version 1.00 (see VDD, 814-RD-004-001) and will be referred to as Version 1.01. This attachment reflects updates to software released as of January 3, 1996.

**Keywords:** version, description, release, software, Ir1, hardware, deliver, CCB, problems, instructions, TRMM, SSI&T, inventory

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### 4.3.2 Communication Subsystem

Version 1.01 (SUN5), IR1\_CSS\_SUN5\_012396.tar.Z

Tar File Listings:

IR1, Version 1.01 HDF3.3r4.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_CSS\_HP\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_CSS\_SGI32\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_CSS\_SGI64\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_CSS\_SGI\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_CSS\_SUN5\_012396.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_DSS\_SUN5\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_INGEST\_SGI\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_INGEST\_SUN5\_122095.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_MSS\_HP\_011196.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_MSS\_SGI\_011196.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_MSS\_SUN5\_011196.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_PDPS\_AIT\_SGI\_012696.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_PDPS\_AIT\_SUN5\_012696.tar.Z Tar File Listing

IR1, Version 1.01 IR1\_TOOLKIT\_122995.tar.Z Tar File Listing

### 4.3.5 Management Subsystem (MSS)

Version 1.01 (HP), IR1\_MSS\_HP\_010596.tar.Z

Version 1.01 (HP), IR1\_MSS\_HP\_011196.tar.Z

Version 1.01 (SGI), IR1\_MSS\_SGI\_011196.tar.Z

Version 1.01 (SUN5), IR1\_MSS\_SUN5\_011196.tar.Z

### 4.3.6 Planning and Processing Subsystem (PDPS) and SSI&T

Version 1.01 (SGI), IR1\_PDPS\_AIT\_SGI\_010596.tar.Z

Version 1.01 (SUN5), IR1\_PDPS\_AIT\_SUN5\_010596.tar.Z

Version 1.01 (SGI), IR1\_PDPS\_AIT\_SGI\_011096.tar.Z

Version 1.01 (SUN5), IR1\_PDPS\_AIT\_SUN5\_011096.tar.Z

Version 1.01 (SGI), IR1\_PDPS\_AIT\_SGI\_012596.tar.Z

Version 1.01 (SUN5), IR1\_PDPS\_AIT\_SUN5\_0125696.tar.Z

Version 1.01 (SGI), IR1\_PDPS\_AIT\_SGI\_012696.tar.Z

Version 1.01 (SUN5), IR1\_PDPS\_AIT\_SUN5\_012696.tar.Z

## 5.2 Ir1 Non-Conformance Reports (Closed Status)

NCRs closed as of January 31, 1996

**Problem Id: ECSed01587**

Severity: 2

Title: Processing halts when all requested files are not found

**Problem Id: ECSed01629**

Severity: 2

Title: Apparently not installed on sgi for IR1

**Problem Id: ECSed01597**

Severity: 3

Title: Science S/W in ClearCase not accessible on SGI from PDPS execution proto

**Problem Id: ECSed01603**

Severity: 3

Title: Env var file does not work in C-shell

**Problem Id: ECSed01632**

Severity: 3

Title: Last chance threshold procedure not installed/Autosys database

**Problem Id: ECSed01574**

Severity: 4

Title: Headings are truncated in the Binary File Difference Assistant Gui

**Problem Id: ECSed01577**

Severity: 4

Title: Program coredumps in certain situations

**Problem Id: ECSed01594**

Severity: 4

Title: Users path is made 'ridiculously long'

**Problem Id: ECSed01598**

Severity: 4

Title: Can't install man page for xdiff

**Problem Id: ECSed01601**

Severity: 4

Title: Install script doesn't copy PGSMMSG files to all Tkit dirs

**Problem Id: ECSed01611**  
Severity: 4  
Title: Bin Diff makefiles need Toolkit include dir in path

**Problem Id: ECSed01583**  
Severity: 5  
Title: 'Select' Button Disappears After Clicking

### 5.3 Ir1 Non-Conformance Reports (Open Status)

NCRs still opened as of January 31, 1996

**Problem Id: ECSed01623**  
Severity: 2  
Title: Autosys doesn't recognize processing system fault.

**Problem Id: ECSed01631**  
Severity: 2  
Title: Sybase tables must be moved

**Problem Id: ECSed01633**  
Severity: 3  
Title: Missing Manuals/Documentation

**Problem Id: ECSed01615**  
Severity: 3  
Title: Errors with Wabi when editing files and then saving them.

**Problem Id: ECSed01610**  
Severity: 3  
Title: Closing Acrobat incorrectly will terminate display

**Problem Id: ECSed01626**  
Severity: 3  
Title: Error in sending DDN from Ingest to Gateway

**Problem Id: ECSed01627**  
Severity: 3  
Title: FTP - ERRORS during Ingest of data files

**Problem Id: ECSed01637**  
Severity: 3  
Title: Memory on Xterms prohibiting efficient testing

**Problem Id: ECSed01639**  
Severity: 3  
Title: HP OpenView not configured at GSFC, LaRC, and EDC.

**Problem Id: ECSed01618**  
Severity: 3  
Title: cdslookup by group failure for SessionServer

**Problem Id: ECSed01619**  
Severity: 3  
Title: Mail Msg Can Not Be Browsed on aitlsunlarc

**Problem Id: ECSed01628**  
Severity: 3  
Title: FTP of files occurs twice during the Ingest process

**Problem Id: ECSed01640**  
Severity: 3  
Title: Event\_Logger data base is not configured properly at GSFC, LaRC, EDC.

**Problem Id: ECSed01636**  
Severity: 3  
Title: Placement of HDF file via EOSView outside of window space.

**Problem Id: ECSed01634**  
Severity: 3  
Title: DpAtRunProfile.sh, DpAtEnv.csh set EDF-specific values

**Problem Id: ECSed01600**  
Severity: 4  
Title: GUI exits unexpectedly after Motif "close" button selected

**Problem Id: ECSed01582**  
Severity: 3  
Title: Autosys Console Displays Incorrect Job Status

**Problem Id: ECSed01564**  
Severity: 4  
Title: Line on Alarm MGR Window is Chopped Partially

**Problem Id: ECSed01606**  
Severity: 4  
Title: Saving of Mail Message generates errors

## Appendix F. Archive Tapes

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These magnetic tapes are used to archive the delivered baseline configuration of COTS software on the host machines.

### **151-TD-001-001**

Label: Ir1 (SGI PC-XL/SPR) Date: 1/16/96

Baseline Dump Tape

/ /dev/root

/usr /dev/usr

Format: dump obsdf 126 1300 54000

### **151-TD-002-001**

Label: Ir1 (Indego2 / Ingest) Date: 1/16/96

Baseline Dump Tape

/ /dev/root

/usr /dev/usr

Format: dump obsdf 126 1300 54000

### **151-TD-003-001**

Label: Ir1 (AI&T Server/DBMS) Date:1/16/96

Baseline Dump Tape

>>> 5.0gbyte format (high density) <<<

/ /dev/rdisk/c0t3d0s0

/usr /dev/rdisk/c0t3d0s6

/var /dev/rdisk/c0t3d0s4

/opt /dev/rdisk/c0t3d0s5

/data /dev/rdisk/c0t3d0s3

Format: usfdump 0f

### **151-TD-004-001**

Label: Ir1 (MSS/SUN Server) Date:1/16/96

Baseline Dump Tape

>>> 5.0gbyte format (high density) <<<

/ /dev/rdisk/c0t3d0s0

/usr /dev/rdisk/c0t3d0s6

/var /dev/rdisk/c0t3d0s4

/opt /dev/rdisk/c0t3d0s5

/data /dev/rdisk/c0t3d0s3

Format: usfdump 0f

The following magnetic tape is used to archive the delivered baseline configuration of the developed software.

**904-PR-007-001**

Label: ECS IR1 Distribution Date: Jan 23, 1996

>>> 5.0gbyte format (high density) <<<

IR1\_CSS\_HP\_122095.tar.Z IR1\_CSS\_SGI32\_122095.tar.Z  
IR1\_CSS\_SGI\_122095.tar.Z IR1\_CSS\_SGI64\_122095.tar.Z  
IR1\_CSS\_SUN5\_012396.tar.Z IR1\_DSS\_SUN5\_122095.tar.Z  
IR1\_MSS\_HP\_011196.tar.Z IR1\_INGEST\_SGI\_122095.tar.Z  
IR1\_MSS\_SGI\_011196.tar.Z IR1\_INGEST\_SUN5\_122095.tar.Z  
IR1\_MSS\_SUN5\_011196.tar.Z IR1\_PDPS\_AIT\_SGI\_011096.tar.Z  
IR1\_TOOLKIT\_122995.tar.Z IR1\_PDPS\_AIT\_SUN5\_011096.tar.Z  
HDF3.3r4.tar.Z IR1\_TOOLKIT\_110995-AAdata.tar.Z

All documents ( VDD and User's Guide )

Command to copy file to disk: dd if=## of=file.tar

Command to untar tar file: tar xvf file.tar

where ## = your tape device and file.tar = Name you give tar file

You must uncompress the .Z files in file.tar

( uncompress IR1\_CSS\_HP\_122095.tar.Z )

**904-PR-007-002**

Label: ECS IR1 Distribution Date: Jan 31, 1996

>>> 5.0gbyte format (high density) <<<

HDF3.3r4.tar.Z  
IR1\_CSS\_HP\_122095.tar.Z  
IR1\_CSS\_SGI32\_122095.tar.Z  
IR1\_CSS\_SGI64\_122095.tar.Z  
IR1\_CSS\_SGI\_122095.tar.Z  
IR1\_CSS\_SUN5\_012396.tar.Z  
IR1\_DSS\_SUN5\_122095.tar.Z  
IR1\_INGEST\_SGI\_122095.tar.Z  
IR1\_INGEST\_SUN5\_122095.tar.Z  
IR1\_MSS\_HP\_011196.tar.Z  
IR1\_MSS\_SGI\_011196.tar.Z  
IR1\_MSS\_SUN5\_011196.tar.Z  
IR1\_PDPS\_AIT\_SGI\_012696.tar.Z  
IR1\_PDPS\_AIT\_SUN5\_012696.tar.Z  
IR1\_TOOLKIT\_110995-AAdata.tar.Z  
IR1\_TOOLKIT\_122995.tar.Z

All documents ( VDD and User's Guide )

Command to copy file to disk: dd if=## of=file.tar

Command to untar tar file: tar xvf file.tar

where ## = your tape device and

file.tar = Name you give tar file

You must uncompress the .Z files in file.tar

( uncompress IR1\_CSS\_HP\_122095.tar.Z )

# Abbreviations and Acronyms

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A.A.	Astronomical Almanac
AA	Ancillary Data Access
AIRS	Atmospheric Infrared Sounder
API	Application Program Interface
APID	Application Process Identifier
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
BNF	Bachus-Nauer Form
CBP	Celestial Body Position
CCR	Configuration Change Request
CCSDS	Consultative Committee on Space Data Systems
CDRL	Contract Deliverable Requirements List
CERES	Clouds and Earth Radiant Energy System
COTS	Commercial off-the-shelf Software
CSMS	Communications and Systems Management Segment (ECS)
CRC	Cyclic Redundancy Code
CSC	Coordinate System Conversion
CUC	Constant and Unit Conversions
DAAC	Distributed Active Archive Center
DCE	Distributed Computing Environment
DCN	Document Change Notice
DCW	Digital Chart World
DDF	Data Distribution Facility
DEM	Digital Elevation Model
DDTs	Distributed Defect Tracking system
DPFT	Data Processing Focus Team
DTM	Digital Terrain Model
ECI	Earth Centered Inertial
ECR	Earth Centered Rotating
ECS	EOSDIS Core System

EDHS	ECS Data Handling System
EDOS	EOS Data and Operations System
EOS	Earth Observing System
EOSAM	EOS AM Project (morning spacecraft series)
EOSDIS	EOS Data and Information System
EOSPM	EOS PM Project (afternoon spacecraft series)
EPH	Ephemeris Data Access
ESDIS	Earth Science Data and Information System
ET	Ephemeris Tool
FDF	Flight Dynamics Facility
FOV	Field-of-View
ftp	file transfer protocol
GAST	Greenwich Apparent Sidereal Time
GCT	Geo-Coordinate Transformation
GMST	Greenwich Mean Sidereal Time
GPS	Global Positioning System
GSFC	Goddard Space Flight Center
HAIS	Hughes Applied Information Systems
HDF	Hierarchical Data Format
HITC	Hughes Information Technology Company
http	hypertext transport protocol
I&T	Integration & Test
I/O	Input/Output
IEEE	Institute of Electrical and Electronic Engineers
IMS	Information Management System (ECS)
IWG	Investigator Working Group
JPL	Jet Propulsion Laboratory
LaRC	Langley Research Center
M&O	Maintenance and Operation
MCF	Metadata Configuration File
MDUE	Missing Data Unit Entry
MEM	Memory Management

MET	Metadata
MODIS	Moderate-Resolution Imaging Spectroradiometer
MSFC	Marshall Space Flight Center
NASA	National Aeronautics and Space Administration
NCR	Nonconformance Report
NCSA	National Center for Supercomputer Applications
NESDIS	National Environmental Satellite, Data, and Information Service (NOAA)
netCDF	network Common Data Format
NMC	National Meteorological Center
PACOR	Packet Processor
PC	Process Control
PGE	Product Generation Executive
PCF	Process Control File
PDS	Production Data Set
PDPS	Planning & Data Production System
PCF	Process Control File
PDR	Preliminary Design Review
PGE	Product Generation Executive (formerly Product Generation Executable)
PGS	Product Generation System (ECS)
PGSTK	Product Generation System Toolkit
POSIX	Portable Operating System Interface for Computer Environments
QA	Quality Assurance
QAC	Quality and Accounting Capsule
RDBMS	Relation Data Base Management System
RPC	Remote Procedure Calls
RRDB	Recommended Requirements Database
SCF	Science Computing Facility
SDP	Science Data Production
SES	Scheduling and Execution Subsystem
SDPS	Science Data Processing Segment
SDPF	Science Data Processing Facility
SGI	Silicon Graphics International

smf	Collection of utilities and library routines used for generating SMFs and manipulating SMF-defined status values and messages
SMF	Status Message File
SPSO	Science Processing Support Office
SSM/I	Special Sensor for Microwave Imaging
TAI	International Atomic Time
TBD	To Be Determined
TD	Time Date Conversion
TDB	Barycentric Dynamical Time
TDRSS	Tracking and Data Relay Satellite System
TDT	Terrestrial Dynamical Time
TLCF	Team Leader Computing Facility
TRMM	Tropical Rainfall Measuring Mission (joint US - Japan)
TSS	(TDRSS) Service Session
UARS	Upper Atmosphere Research Satellite
URL	Universal Research Locator
US	United States
USNO	U.S. Naval Observatory
UT	Universal Time
UTC	Universal Coordinated Time
UTCf	Universal Time Correlation Factor
UTM	Universal Transverse Mercator
VCDU	Virtual Channel Data Unit
VDD	Version Description Document
VPF	Vector Product Format
WWW	World Wide Web