

1. Introduction

1.1 Identification

This Release B SDPS Client Subsystem Design Specification for the ECS Project, Contract Data Requirement List (CDRL) Item 046, with requirements specified in Data Item Description (DID) 305/DV3, is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Core System (ECS), Contract NAS5-60000. This publication is part of a series of documents comprising the Science and Communications Development Office design specification for the Communications and System Management Segment (CSMS) and the Science and Data Processing Segment (SDPS) for Release B.

1.2 Scope

Release B provides support to EOS AM-1 Mission Operations and Science Operations, and it provides support to ESDIS Ground System Certification Testing for the EOS AM-1 and Landsat 7 missions. Release B provides services for the Landsat 7, COLOR, ADEOS II, SAGE III, DAO, JERS-2, ERS-2, RADARSAT, and RADARALT missions.

The Release B SDPS Client Subsystem Design Specification defines the progress of the design. It defines the Client Subsystem computer software design, as well as subsystem design based on Level 4 requirements.

This subsystem is on an incremental development track. It is released and reviewed in the form of Evaluation Packages (EP), and is, therefore, not part of the formal Release B Critical Design Review (CDR). The overview material for these components has been included in this document for information purposes only.

This document reflects the February 14, 1996 Technical Baseline maintained by the ECS Configuration Control Board in accordance with ECS Technical Direction No. 11 dated December 6, 1994.

1.3 Document Organization

The document is organized to describe the Client Subsystem design as follows:

Section 1 provides information regarding the identification, scope, status, and organization of this document.

Section 2 provides a listing of the related documents, which were used as source information for this document.

Section 3 provides an overview of the Subsystem, focusing on the high-level design concept. This provides general background information to put Client into context.

Sections 4 and 5 contain the structure of the computer software configuration items (CSCI) comprising the Client Subsystem.

The section Abbreviations and Acronyms contains an alphabetized list of the definitions for abbreviations and acronyms used in this document.

1.4 Status and Schedule

This submittal of DID 305/DV3 meets the milestone specified in the Contract Data Requirements List (CDRL) of NASA Contract NAS5-60000. This document reflects the changes in the Release B Client Subsystem that will occur from Release A to Release B. The Release A design was documented as part of the Release A Critical Design Review. This submittal is an update to that design.