Subject	**Type**	Standard
Data Flow Diagrams	**Identifier**	S–3163
	Effective Date	February 2002
	Revision No.	2

Approval _____

CISSCO Program Director

A. PURPOSE

This standard defines the format and content of data flow diagrams (DFDs).

B. APPLICABILITY

This standard applies to all DFDs produced by Application systems subject to the SDLCM Methodology. A Application system produces DFDs as part of defining system requirements using structured requirements definition techniques. The Context Diagram, the top-level DFD, is produced and included in the Project Definition and Analysis (PDA) as the output of an activity of Component 1 of the SDLCM Methodology, Define Initial Requirements. As requirements definition and analysis continue as activities of Component 3, Design the Solution, remaining DFDs are developed and included in the Logical Design Document.

This standard is used by Development team members responsible for requirements definition to produce the DFDs, and the Technical Project Manager and Quality Assurance personnel for reviewing them.

The DFDs are living work products of requirements definition and analysis activities and are maintained for the life of the Application system. The DFDs are made available to all Project/Task personnel, preferably in electronic form.

C. REFERENCE PUBLICATIONS

The following publications contain related information:

- *SDLCM Methodology Handbook*, Component 1
- *SDLCM Methodology Handbook*, Component 3
- *Systems Development CASE Tool Guidelines*, Systems Development and Integration Branch (SDIB) Office of Information Resources Management (OIRM), September 12, 1995
- *Standards and Conventions*, SDIB OIRM, August 28, 1995
- SDLCM Methodology Standard S–3162, Context Diagrams
- SDLCM Methodology Standard S–3161, Process Models

- SDLCM Methodology Procedure P–3111, Process Modeling

D. STANDARD

DFDs are hierarchical and logical graphical representations of data that are processed and generated during system operations. Create DFDs as part of the requirements definition and analysis process to show how the Application system processes use data and to decompose the context diagram to the lowest meaningful level that reflects the structure of the application.

Refer to the Section 3.3.2, Data Flow Diagrams, of the *Systems Development CASE Tool Guidelines* and to SDLCM Methodology Procedure P–3111, Process Modeling, for descriptions the processes used to create and refine process models.

Refer to Section 3.2, Process Objects, of the *Standards and Conventions* document for the conventions used to name each type of process object.