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CASE DATA INTERCHANGE FORMAT (CDIF)

EIA/IS-106
CDIF - Case Data Interchange Format - Overview
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard describes the architecture of the CDIF Family of Standards and provides an overview to all the current standards that form the CDIF Family of Standards.
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-107
CDIF - Framework for Modeling and Extensibility
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard defines the CDIF Meta-meta-model and the modeling concepts used throughout CDIF and the extensibility mechanism.
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-108
CDIF Transfer Format - General Rules for Syntaxes and Encodings
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard defines how CDIF supports multiple exchange Syntaxes and Encodings, and describes how CDIF meta-models are concretely represented during a transfer.
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-109
CDIF - Transfer Format Syntax - SYNTAX.1
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard defines the CDIF Transfer Format Syntax, SYNTAX.1
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-110
CDIF - Transfer Format Encoding - ENCODING.1
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard defines an encoding of SYNTAX.1.
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-111
CDIF - Integrated CASE Meta-model-Foundation Subject Area
This standard will assist the vendors and users of CASE tools in developing mechanisms for interchanging information between CASE tools. This standard specifies an element of a family of related standards. When used together, these standards specify a mechanism for transferring information between CASE tools.

This standard explains the Foundation subject area of the CDIF Integrated Meta-model, which is used to ensure that the information held by tools communicating using CDIF express the information they pass with an agreed meaning. This subject area contains the basic objects on which all others, including extensions, must be based.
Product Code 9 Jan, 1994 COMMITTEE:CDIF
$150.00

EIA/IS-118
Integrated Meta-Model-Presentation Location and Connectivity Subject Area
This document provides a textual description of the major concepts of presentation location and connectivity subject area.
Explains coverage of this subject area and outlines what it is capable of representing.
Product Code 9 Dec, 1996 COMMITTEE:CDIF
$160.00

EIA/IS-734
CDIF - Transfer Format - OMG/IDL Bindings
This standard describes how the Object Management Group’s Common Object Request Broker Architecture (CORBA) is used as a CDIF transfer mechanism by mapping CDIF into OMG IDL, the Interface Definition Language defined by the Object Management Group.
Product Code 9 Mar, 1998 COMMITTEE:CDIF
$Call for Pricing
**NUMERICAL CONTROL**

**EIA-358-C**


This information and comments contained in the PREFACE should not be considered part of the Standard. They have been included for clarification and guidance purposes only. American National Standard Code for Information Interchange (ANSI X3.4) is designed to achieve coding uniformity for information interchange between data processing and communication systems. The increasing use of computers and related equipment for preparation of perforated tape for numerical machine control and for communication between various components of advanced numerically controlled systems has demonstrated the need for standardized usage for numerical control. As a result, the EIA IE-31 Committee, which is made up of representatives of control system builders, machine builders, and users, has prepared this Standard for use by people building and using numerical control equipment.

**Product Code 9**

Dec, 1992

COMMITTEE:IE-31

$30.00

**AXIS AND MOTION**

**EIA-267-C**

**Axis and Motion Nomenclature for Numerically Controlled Machines (ANSI/EIA-267-C-90)**

This Standard is intended to avoid misunderstandings between manufacturers, programmers, and users of machine tools, to simplify programming, to facilitate interchangeability of recorded data between machines of like configuration, and to simplify the training of programmers through standardization of machine coordinate system and motion nomenclature. EIA-267-C defines a machine coordinate system and machine movements so that a machine tool programmer can describe machining operations without having to know whether the tool approaches the workpiece or the workpiece approaches the tool.

**Product Code 9**

Dec, 1990

COMMITTEE:IE-31

$67.00

**CONTOURING**

**EIA-274-D**

**Interchangeable Variable Block Data Contouring, Format for Positioning and Contouring/Positioning Numerically Controlled Machines (ANSI/EIA-274-D-80) (R88)**

This Standard applies wherever a variable block format is used on perforated tape to control contouring or contouring/positioning numerically controlled machines. This format will usually be read row-by-row. This standard was adopted and approved for DoD use on March 9, 1979.

**Product Code 9**

Oct, 1988

COMMITTEE:IE-31

$70.00

**INTERFACE**

**EIA-408**

**Interface between Numerical Control Equipment and Data Terminal Equipment Employing Parallel Binary Data Interchange (ANSI/EIA-408-73) (R92)**

This Standard applies to the interconnection of data terminal equipment and numerical control equipment at the tape reader interface. The data terminal would typically be connected to a remote data source/link such as a computer.

**Product Code 9**

Mar, 1979; Reaffirmed Jul. 1992

COMMITTEE:IE-31

$43.00
NUMERICAL CONTROL, INTERFACE (cont.)

EIA-491
Interface between a Numerical Control Unit and Peripheral Equipment Employing Asynchronous Binary Data Interchange over Circuits Having EIA-423-A Electrical Characteristics (ANSI/EIA-491-92)
The purpose of this Standard is to define a common interface that will enable user to connect numerical control equipment to a plurality of peripheral devices including full-duplex data communication equipment. A further purpose is to define a standard connector on the numerical control equipment and to assign contacts to the various circuit functions. EIA-491 applies to the interconnection of a numerical control unit and a variety of peripheral devices including reader/punches, automatic send-receive (ASR) terminals, intelligent terminals, part program preparation system, or another numerical control unit using serial binary asynchronous transfer to data.

COMMITTEE:IE-31
$59.00

EIA-494-B
32 Bit Binary CL (BCL) and 7 Bit ASCII CL (ACL) Exchange Input Format for Numerically Controlled Machines (ANSI/EIA-494-B-90)
The purpose of this Standard is to define a uniform, part oriented data format for the distribution of machine input data to numerically controlled machines, and the response of the machines thereto, in order to permit the exchange of such input data among a wider variety of machines than is possible with existing Standards.

The scope of this Standard is the definition of the response of a numerically controlled machine to a valid sequence of records made up of 32 bit binary words or ASCII text strings. The Standard defines the structure of these records and of the 32 bit binary words or ASCII text strings which make up the records.

This Standard addresses the control of machines capable of performing 2, 3, 4 and 5 axis motion of an active tool (mill, laser, pen, etc.) relative to part, and those capable of 2 and 4 axis tool motion relative to a rotating part (turning machines, including parallel tool slide sets capable of concurrent (merged) motion.

Product Code 9 Jul, 1992 COMMITTEE:IE-31
$184.00

MANUFACTURING MESSAGE SPECIFICATIONS

EIA-511
Standardizes services required to control and monitor plant floor devices, as well as the protocol necessary to achieve such services in a vendor-independent fashion. Manufacturing Message Specification (MMS) is primarily intended for application to computer numerical control (CNC) equipment, programmable controllers, robotics equipment, and process control systems. Other devices may be supported by using MMS as well. MMS is intended for use under the ISO open systems interconnection (OSI) architecture. It defines an application service element under OSI and is described through the use of a model device called a virtual manufacturing device (VMD), and through description of operations on the VMD.

Product Code 9 Apr, 1989 COMMITTEE:IE-31
$152.00