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IEEE Guide for CASE Tool Interconnections—Classification and Description

IEEE Computer Society

Sponsored by the
Software Engineering Standards Committee



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Abstract: This guide describes the scope of application and interrelationships for the members of the IEEE 1175 family of standards. It points the reader to the appropriate member standard that addresses issues involved in effectively integrating computing system tools into a productive engineering environment.

Keywords: CASE tool integration, CASE tool interconnection, CASE tool interfaces, CASE tool organization issues, CASE tool platform issues, CASE tool user issues

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Introduction

(This introduction to the 1175 family of IEEE standards is not part of IEEE Std 1175.1-2002, IEEE Guide for CASE Tool Interconnections—Classification and Description.)

NOTE—At the time of the final approval of this standard and the other members of this family of IEEE standards, references to “IEEE P1175.x” will be changed to read “IEEE Std 1175.x” etc. The reader of this document should make such an interpretation for any “P1175.x” text entries denoting members of this family that have already been approved by IEEE.

This guide is a member of the 1175 family of IEEE standards. This family of standards replaces IEEE Std 1175-1991, IEEE Standard Reference Model for Computing System Tool Interconnections.^a IEEE Std 1175-1991 was advanced to a full-use standard in 1994. It covered a number of closely related subjects, and the scope of material contained was able to serve a number of divergent interests. This revision restructures and substantially augments the material in IEEE Std 1175-1991. It has been divided into several individually useful guides, recommended practices, and standards in order to facilitate its use by different communities of interest. The members of this family are:

Standard number	Title
IEEE Std 1175.1-2002	IEEE Guide for CASE Tool Interconnections—Classification and Description
IEEE P1175.2™	Draft Recommended Practice for CASE Tool Interconnections—Characterization of Interconnections
IEEE P1175.3™	Draft Standard for CASE Tool Interconnections—Reference Model for Specifying Software Behavior
IEEE P1175.4™	Draft Standard for CASE Tool Interconnections—Reference Model for Specifying System Behavior
IEEE P1175.5™	Draft Standard for CASE Tool Interconnections—Syntax for Transferring Behavior Specifications

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These guides, recommended practices, and standards generally address issues involved in characterizing the kinds of interconnections that exist between a computing system tool and its environment. Four kinds of interconnections with a computing system tool are addressed: interconnections with organizations, users, platforms, and other computing system tools.

This guide is an expansion of Part 1 of IEEE Std 1175-1991. It provides an integrated overview of the remaining members of the 1175 family of standards, including the fundamental concepts that provide a basis for organizing the material.

^aAlthough approved in 1991, IEEE Std 1175-1991 was actually published in 1992, and is sometimes found referenced as IEEE Std 1175-1992. It appears in the standards listing on the IEEE Xplore Web site (<http://ieeexplore.ieee.org/>) as “IEEE Std 1175, 17 Aug. 1992,” with the title “IEEE trial-use standard reference model for computing system tool interconnections.” In 1994 the term “trial-use” was removed from the title when the standard was approved for full-use status. The 1994 version, which was identical to the 1992 publication except for the title and minor editorial corrections, is not available on the IEEE Web site.

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