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# Information technology — POSIX® Ada Language Interfaces — Binding for System Application Program Interface (API)

*Technologies de l'information — Interfaces de langage POSIX® Ada — Boucle pour interface de programme d'application système (API)*

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International Standard ISO/IEC 14519:2001(E)
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(Incorporates IEEE Std 1003.5-1992,
IEEE Std 1003.5b-1996, and
IEEE Std 1003.5c-1998)

# Information technology— POSIX® Ada Language Interfaces— Binding for System Application Program Interface (API)

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of the
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**Abstract:** This standard is part of the POSIX ® series of standards for applications and user inter-faces to open systems. It defines the Ada language bindings as package specifications and accompanying textual descriptions of the application program interface (API). This standard supports application portability at the source code level through the binding between ISO 8652:1995 (Ada) and ISO/IEC 9945-1:1996 (IEEE Std 1003.1-1996) (POSIX) as amended by IEEE P1003.1g/D6.6. Terminology and general requirements, process primitives, the process environment, files and directories, input and output primaries, device- and class-specific functions, language-specific services for Ada, system databases, synchronization, memory management, execution scheduling, clocks and timers, message passing, task management, the XTI and socket detailed network inter-faces, event management, network support functions, and protocol-specific mappings are covered. It also specifies behavior to support the binding that must be provided by the Ada.

**Keywords:** Ada, API, application portability, computer language bindings, information exchange, interprocess communication, networks, open systems, operating systems, portable application, POSIX, POSIX language bindings, protocol-specific, protocol-independent, real-time, sockets, thread, XTI

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International Standard ISO/IEC 14519 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 22, *Programming languages, their environments and system software interfaces*.

This second edition cancels and replaces the first edition (ISO/IEC 14519:1999), which has been technically revised.

Annex D forms a normative part of this International Standard. Annexes A, B and C are for information only.

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