

Product Standard

**Operating System and Languages:
COE Platform Standards V2**

The Open Group

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Product Standard

Operating System and Languages: COE Platform Standards V2

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Product Standard

NAME

COE Platform Standards V2

LABEL FOR LOGO

No label.

DESCRIPTION

This Product Standard covers the formal standards and specifications for which a COE Platform should be demonstrated as being in conformance. An application executing on a conforming COE Platform implementation shall have simultaneous access to all services associated with these standards.

CONFORMANCE REQUIREMENTS

A COE Platform implementation shall be in conformance with the following specifications and requirements.

Human-Computer Interface

- ISO/IEC 9945:2003, Information Technology — Portable Operating System Interface (POSIX) — Part 1: Base Definitions and Part 3: Shell and Utilities

The following options shall be supported on a conformant system:

- The User Portability Utilities Option (POSIX2_UPE, ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.6.2, Shell and Utilities)
- The Full Terminal Operations Option (POSIX2_CHAR_TERM, ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.6.2, Shell and Utilities)
- The XSI Shell and Utilities Option (ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.4.2, XSI Shell and Utilities Conformance)

If the system supports software development, then the following options are also required:

- The Software Development Utilities Option (POSIX2_SW_DEV, ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.6.2, Shell and Utilities)
- The C-Language Development Utilities Option (POSIX2_C_DEV, ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.6.2, Shell and Utilities)
- CAE Specification, April 1995, Common Desktop Environment (XCDE): Services and Applications (ISBN: 1-85912-074-1, C323), published by The Open Group
- CAE Specification, April 1995, Common Desktop Environment (XCDE): Definitions and Infrastructure (ISBN: 1-85912-070-9, C324), published by The Open Group

The following general requirements shall apply:

- The system shall establish global settings for the *XFONTSDIR*, *XAPPLRESDIR*, and *XENVIRONMENT* environment variables.
- The system shall include an HTML browser that supports HTML 3.2. The system browser shall strictly comply with the COE User Interface Specifications¹ for web applications.
- The system browser shall strictly comply with the COE User Interface Specifications, and support the features provided to disadvantaged users from the COE User Interface Specifications.
- The system shall include documentation including manual pages, help files, or HTML-format pages for distribution with the COE Developer's Toolkit.

Portability Interface

- Operating System API
 - ISO/IEC 9945:2003, Information Technology — Portable Operating System Interface (POSIX) — Part 1: Base Definitions and Part 2: System Interfaces
 - Implementations are required to support, and Strictly Conforming COE Platform Applications shall only depend on, the presence of the mandatory options described in ISO/IEC 9945-1:2003, Base Definitions, Section 2.1.4, XSI Conformance.
- Communications Service API
 - ISO/IEC 9945:2003, Part 2: System Interfaces, Section 2.10, Sockets and Chapter 3, System Interfaces (Sockets Interfaces and IP Address Resolution Interfaces)
 - ISO/IEC 9945:2003, Part 1: Base Definitions, Chapter 13, Headers (Sockets Headers and IP Address Resolution Headers)
- Human-Computer Interaction API
 - CAE Specification, May 1995, Window Management (X11R5): X Lib - C Language Binding (ISBN: 1-85912-088-1, C508), published by The Open Group
 - CAE Specification, May 1995, Window Management (X11R5): X Toolkit Intrinsics (ISBN: 1-85912-089-X, C509), published by The Open Group
 - CAE Specification, May 1995, Window Management (X11R5): File Formats and Applications Conventions (ISBN: 1-85912-090-3, C510), published by The Open Group
 - Product Documentation, October 1997, Motif 2.1: Programmer's Guide (ISBN: 1-85912-134-9, M213), published by The Open Group

Programming Language Environment

Not applicable.

1. COE User Interface Specifications, Version 4.0, 6 October 1999, CM 27986.

Interoperability

A COE Platform implementation shall be in conformance with the Communications Service Interface specifications and meet the requirements listed in the UNIX 03 Server Product Standard.² In addition:

- The system may support the Network Information Service (NIS+) protocol. If the system supports NIS+, the system shall be configured to use NIS+.
- If the system does not support the DNS or NIS+ protocols, the system shall not be affected by the protocol's environmental presence.

OPERATIONAL ENVIRONMENT

Not applicable.

PORTABILITY ENVIRONMENT

Not applicable.

OVERRIDING STANDARDS

All formal standards included within this Product Standard are specified by a direct reference to the formal standard document itself.

INDICATORS OF COMPLIANCE

The following lists the Indicators of Compliance for the constituent parts of this Product Standard. In some instances where more than one Indicator of Compliance is available, there are acceptable alternatives listed.

- Human-Computer Interface
 - The Open Group Open Brand Certificate for UNIX 03
- Operating System API
 - The Open Group Open Brand Certificate for UNIX 03
- Human-Computer Interaction API
 - The Open Group Open Brand Certification for the X Window System
 - The Open Group Open Brand Certification for Motif
- Interoperability
 - The Open Group Open Brand Certificate for UNIX 03 Server
 - A report from the Network File System (NFS) Validation Procedure
 - A report from the World Wide Web (WWW) Interoperability Demonstration Validation Procedure
 - A report from the File Transfer Protocol (FTP) Interoperability Demonstration Validation Procedure

2. Brand Program Documentation, January 2004, Operating System and Languages: UNIX 03 Server (X04XY), published by The Open Group.

- A report from the Simple Mail Transport Protocol (SMTP) Interoperability Demonstration Validation Procedure
- A report from the TCP/IP Ping and DNS Interoperability Validation Procedure

MIGRATION

This version of the Product Standard has been aligned with the UNIX 03 Product Standard.