Product Standard

User Interface:
X Window System Application Interface V2

The Open Group

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Product Standard

NAME

X Window System Application Interface V2

LABEL FOR LOGO

No label.

DESCRIPTION

This Product Standard provides X Window System user interface services to applications via a programmatic interface. It includes the Xlib interface, the X Protocol, ICCCM, and the Xt Intrinsics, at the X11 Release 5 level.

It is optional whether the displays are local and/or remote and whether they employ the X Protocol (that is, the focus of this Product Standard is application portability).

CONFORMANCE REQUIREMENTS

Human-Computer Interface

Not applicable.

Portability Interface

Xlib-C Language Binding (X11R5) Specification.[1]

X Toolkit Intrinsics (X11R5) Specification.[2]

X Window System File Formats and Application Conventions (X11R5) Specification,[3] Chapters 2 to 8, Inter-client Communications Conventions Manual (ICCCM), and Chapters 9 to 12, X Logical Font Description (XLFD).

Programming Language Environment

C Language.

C language source programs invoking the services of this Product Standard must be supported by the registered product.

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1. CAE Specification, May 1995, Window Management (X11R5): Xlib-C Language Binding (ISBN: 1-85912-088-1, C508).
2. CAE Specification, May 1995, Window Management (X11R5): X Toolkit Intrinsics (ISBN: 1-85912-089-X, C509).
3. CAE Specification, May 1995, Window Management (X11R5): X Window System File Formats and Application Conventions (ISBN: 1-85912-090-3, C510).

Interoperability

- Data Interchange Formats

  Products conforming to the X Window System Application Interface V2 Product Standard may optionally support the interchange of textual data according to the X Window System File Formats and Application Conventions (X11R5) Specification, Chapter 13, Compound Text.

- Communications Interfaces and Protocols

  Products conforming to the X Window System Application Interface V2 Product Standard may optionally provide support for driving external displays according to the protocols and services as specified in the X Window System Protocol (X11R5) Specification,[4] requirements on clients, and the X Window System File Formats and Application Conventions (X11R5) Specification, Chapters 2 to 8, Inter-client Communications Conventions Manual (ICCCM).

  Support for X Protocol over TCP/IP is required.

  Support for other transport protocols may be declared in the Conformance Statement.

OPERATIONAL ENVIRONMENT

Not applicable.

PORTABILITY ENVIRONMENT

Internationalized System Calls and Libraries Extended V2.

OVERRIDING STANDARDS

None.

INDICATORS OF COMPLIANCE

A Test Report from a currently authorized release of the VSW5 Test Suite.

The tests for the Communications Interfaces and Protocols must be performed in a test environment that contains an X Window System Display and the X Window System Application Interface implementation interconnected with TCP/IP. The X Protocol driving the display during the test must be carried over an external TCP/IP connection.

MIGRATION

The Xlib interface is upwards-compatible from that of the XPG3 Window Management Product Standard and the X Window System Application Interface Product Standard.

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4. CAE Specification, May 1995, Window Management (X11R5): X Window System Protocol (ISBN: 1-85912-087-3, C507).