# **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.<sup>1</sup>

X Toolkit Intrinsics (X11R5) Specification.<sup>2</sup>

X Window System File Formats and Application Conventions (X11R5) Specification,<sup>3</sup> 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.

<sup>1.</sup> CAE Specification, May 1995, Window Management (X11R5): Xlib-C Language Binding (ISBN: 1-85912-088-1, C508).

<sup>2.</sup> CAE Specification, May 1995, Window Management (X11R5): X Toolkit Intrinsics (ISBN: 1-85912-089-X, C509).

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