

Product Standard

**Operating System and Languages:
UNIX[®] V7**

The Open Group

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This Product Standard is updated to include Role-Based Access Control (RBAC) as an option.

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Any comments relating to the material contained in this document may be submitted by email to:

OGspecs@opengroup.org

Product Standard

NAME

UNIX® V7

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LABEL FOR LOGO

UNIX

When this logo is used on, or in relation to, a product registered as conformant to this Product Standard, it must be accompanied by an attribution, in the form defined in the Trademark License Agreement,¹ which includes the UNIX V7 Product Standard name.

DESCRIPTION

The UNIX V7 Product Standard is a significantly enhanced version of the UNIX 03 Product Standard. The most significant change is alignment with the Single UNIX Specification, Version 4 that includes The Open Group Base Specifications, Issue 7, and approved Technical Corrigenda (if any). The Open Group Base Specifications, Issue 7, are technically identical to IEEE Std 1003.1-2008 and ISO/IEC 9945:2009.²

The mandatory enhancements over the UNIX 03 Product Standard include:

- Alignment of interfaces with the corrigenda to ISO/IEC 9899: 1999 (C Language)³
- Addition of new interfaces from:
 - The Open Group Technical Standard, 2006, Extended API Set Part 1
 - The Open Group Technical Standard, 2006, Extended API Set Part 2
 - The Open Group Technical Standard, 2006, Extended API Set Part 3
 - The Open Group Technical Standard, 2006, Extended API Set Part 4
- Addition of new X/Open Curses utilities

1. Brand Program Documentation, January 1998, The Open Brand Trademark License Agreement (TMLA) (ISBN: 1-85912-275-2, X982), published by The Open Group.

2. IEEE Std 1003.1-2008, IEEE Standard for Information Technology — Portable Operating System Interface (POSIX), identical to ISO/IEC 9945: 2009.

3. ISO/IEC 9899: 1999, Programming Languages — C, including ISO/IEC 9899: 1999/Cor.1: 2001(E), ISO/IEC 9899: 1999/Cor.2: 2004(E), and ISO/IEC 9899: 1999/Cor.3

- Interfaces that were previously part of the following options are now mandatory:

- _POSIX_ASYNCHRONOUS_IO
 - _POSIX_BARRIERS
 - _POSIX_CLOCK_SELECTION
 - _POSIX_REALTIME_SIGNALS
 - _POSIX_SEMAPHORES
 - _POSIX_SPIN_LOCKS
 - _POSIX_TIMEOUTS
 - _POSIX_TIMERS

- Incorporation of corrections arising from Austin Group Interpretations and The Open Group Corrigenda

In addition, the following new options are included:

- _POSIX_THREAD_ROBUST_PRIO_INHERIT
 - _POSIX_THREAD_ROBUST_PRIO_PROTECT

Role-Based Access Control (RBAC) is included as a new option. The UUCP utilities are now optional.

CONFORMANCE REQUIREMENTS

A single configuration of the system shall meet all of the conformance requirements defined in the following mandatory Product Standards:

- Internationalized System Calls and Libraries Extended V4
- Commands and Utilities V5
- C Language V2
- Internationalized Terminal Interfaces V2

A single configuration of the system may meet the conformance requirements for the following optional Product Standard:

- Role-Based Access Control (RBAC)⁴

The product must be registered as conformant to the Product Standards prior to, or concurrent with, the UNIX V7 Product Standard registration.

OPERATIONAL ENVIRONMENT

Refer to the Product Standards listed in **Conformance Requirements**.

PORTABILITY ENVIRONMENT

Refer to the Product Standards listed in **Conformance Requirements**.

4. Open Group Standard, August 2012, Authorization Roles Managed On RBAC (O-ARMOR) (ISBN: 1-937218-09-6, C125), published by The Open Group.

OVERRIDING STANDARDS

Refer to the Product Standards listed in **Conformance Requirements**.

INDICATORS OF COMPLIANCE

Refer to the Product Standards listed in **Conformance Requirements**.

MIGRATION

There are few incompatibility issues in migrating applications from systems registered as conformant to the UNIX 03 Product Standard unless the application makes use of the UUCP utilities, which are now optional in this Product Standard, and thus may not be available on all systems.

The few incompatibilities largely arise from the withdrawal of interfaces and features marked as obsolescent or legacy in the Base Specifications, Issue 6, or marked as to be withdrawn in X/Open Curses, Issue 4, Version 2. See the **Migration** section of the Product Standards listed in **Conformance Requirements** for more information.

Detailed migration information can also be found in the Authorized Guide to Version 4 of the Single UNIX Specification.⁵

5. The Single UNIX Specification, Authorized Guide to Version 4, March 2010 (ISBN: 1-93162-484-4, G101), published by The Open Group.

