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# Testing requirements by Product Standard

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## Requirements by Product Standard

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This summarizes requirements for the Test Suites to be used in support of the Open Brand program.

The first half of the page covers the Base, Base 95, UNIX 95, COE Platform, Common Desktop Environment (CDE) Product Standards, UNIX 98 , UNIX 98 Workstation, UNIX 98 Server and new UNIX 03 Product Standards.

The second half of the page covers the complete set of individual Product Standards.

Links in the tables below are to Product Standard definitions or descriptions of the Test Suites.

Full details of all Registered Products and their related Product Standards can be obtained from the [Directory of Registered Products](#) on The Open Group's web site.

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## CDE

### Product Standard Requirements

PRODUCT STANDARDS	REFERENCED PRODUCT STANDARDS	TEST SUITE
CDE	<a href="#">X Window System Application Interface</a>	VSW5
	<a href="#">Motif Toolkit API</a>	VSM4

Note that VSW5 is required for the underlying X Window System Application Interface V2 Product Standard, and will also be required for the X Window System Display Product Standard, where a graphical display is included in the hardware environment.

If the product declares itself to be conformant to one or more of the Base or UNIX Product Standards (see below) then the testing requirements of that/those Product Standards must also be considered.

## COE Platform V1

### Product Standard Requirements

PRODUCT STANDARDS	REFERENCED PRODUCT STANDARDS	TEST SUITE/INDICATOR
COE Platform V1	COE Platform Government Supplied Kernel Source	<ul style="list-style-type: none"> <li>• Validation Host Initial Validation Procedure</li> <li>• Candidate Platform Initial Validation Procedure</li> <li>• Kernel Overview Validation Procedure</li> <li>• Print Services Validation Procedure</li> <li>• Accounts and Profile Manager Validation Procedure</li> <li>• Segment Installation Validation Procedure</li> <li>• Remote Installation Validation Procedure</li> <li>• Developers Toolkit and Runtime Validation Procedure</li> <li>• Audit Log File Manager Validation Procedure</li> </ul>
	COE Platform Security	<ul style="list-style-type: none"> <li>• COE Automated Security Test Suite</li> </ul>

	<p>COE Platform Standards</p>	<ul style="list-style-type: none"> <li>• Either, The Open Group Open Brand certificate for Commands and Utilities, or VSC5 or VSC5-lite</li> <li>• Either, a NIST/IEEE FIPS 151-2 certificate, or The Open Group Open Brand certificate for Internationalized System Calls and Libraries Extended, or Internationalized System Calls and Libraries Extended V2, or VSX-PCTS, or an LSB 1.2 or LSB 1.3 certificate</li> <li>• Either, The Open Group Open Brand certificate for the X Window System, or VSW5</li> <li>• Either, The Open Group Open Brand certificate for Motif, or VSM</li> <li>• The Open Group Open Brand certificate for Internet Server (optional)</li> <li>• Network File System (NFS) Validation Procedure</li> <li>• World Wide Web (WWW) Interoperability Demonstration Validation Procedure</li> <li>• File Transfer Protocol (FTP) Interoperability Demonstration Validation Procedure</li> <li>• Simple Mail Transport Protocol (SMTP) Interoperability Demonstration Validation Procedure</li> </ul>
<p>COE Linux Platform V1</p>	<p>COE Linux Platform Government Supplied Kernel Source</p>	<ul style="list-style-type: none"> <li>• Validation Host Initial Validation Procedure</li> <li>• Candidate Platform Initial Validation Procedure</li> <li>• Kernel Overview Validation Procedure</li> <li>• Print Services Validation Procedure</li> <li>• Accounts and Profile Manager Validation Procedure</li> <li>• Segment Installation Validation Procedure</li> <li>• Remote Installation Validation Procedure</li> <li>• Developers Toolkit and Runtime Validation Procedure</li> <li>• Audit Log File Manager Validation Procedure</li> </ul>
	<p>COE Platform Security</p>	<ul style="list-style-type: none"> <li>• COE Automated Security Test Suite</li> </ul>
	<p>COE Linux Platform Specifications</p>	<ul style="list-style-type: none"> <li>• Either an LSB 1.2 or LSB 1.3 certificate</li> <li>• Either, The Open Group Open Brand certificate for the X</li> </ul>

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|  | <p>Window System, or VSW5</p> <ul style="list-style-type: none"><li>• Network File System (NFS) Validation Procedure</li><li>• World Wide Web (WWW) Interoperability Demonstration Validation Procedure</li><li>• File Transfer Protocol (FTP) Interoperability Demonstration Validation Procedure</li><li>• Simple Mail Transport Protocol (SMTP) Interoperability Demonstration Validation Procedure</li></ul> |
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## Base and UNIX

This is a summary of the Open Brand and its various Product Standards and the relationship to UNIX and the Single UNIX Specification. The UNIX trademark now belongs to The Open Group.

Products which claim to conform to the Single UNIX Specification need to be registered as conformant to the UNIX 95, UNIX 98 or UNIX 03 Product Standards. There are other Product Standards which may be registered which go part of the way to the full UNIX 95 brand and these Product Standards and their composition are set out below.

### *Product Standard Requirements*

**N.B.** The set of required Test Suites identified below is liable to change over time as new suites become available and approved as Indicators of Compliance.

PRODUCT	REFERENCED PRODUCT
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	<u>Commands and Utilities V4</u>	<u>VSC5</u>
	<u>C Language V2</u>	<u>Plum Hall CVS</u> or <u>Perennial CVSA</u>
	<u>Internationalized Terminal Interfaces</u>	<u>VSU5</u> is required for hard conformance.
<u>UNIX 03 Server</u>	As for <u>UNIX 03</u> , plus the requirements of the <u>Internet Server V2 Product Standard</u>	

Base 95 is an important step towards UNIX 95, as the Commands and Utilities V2 Product Standard needs full testing to the specification using the VSC Test Suite.

The UNIX 98 Product Standard is a significantly enhanced version of UNIX 95. The mandatory enhancements include

1. Threads interfaces,
2. Multibyte Support Extension (MSE),
3. Large File Support,
4. Dynamic Linking,
5. Changes to remove hardware data-length dependencies and restrictions, and
6. Year 2000 changes

In addition the following optional enhancements are included: Software Administration facilities and a set of APIs for realtime support.

### ***Use of the UNIX logo and attributions***

When a product is registered as conformant to UNIX 95, the UNIX trademark may be used with the attribution **UNIX 95**.

PRODUCT STANDARDS	TEST SUITE
<b><i>Operating Systems and Languages</i></b>	
<u>Internationalized System Calls and Libraries</u>	<u>VSX4</u>
<u>Internationalized System Calls and Libraries Extended</u>	<u>VSX4</u> , and <u>VSU5</u>
<u>Internationalized System Calls and Libraries Extended V2</u>	<u>VSX5</u> , <u>VSX4</u> , <u>VSU5</u> , <u>VSTH5</u> (and optionally <u>VSRT5</u> )
<u>Commands and Utilities</u>	None required.
<u>Commands and Utilities V2</u>	<u>VSC5</u>
<u>Commands and Utilities V3</u>	<u>VSC5</u>
<u>Multi-Purpose Realtime Operating System</u>	<u>VSRT</u> and optionally <u>VSTH</u> .
<u>C Language</u>	<u>VSX4</u> and Plum Hall or Perennial
<u>COBOL Language</u>	COBOL CCVS 85 V4.2
<u>Pascal Language</u>	BSI Pascal Validation Suite V5.4 or later
<u>FORTRAN Language</u>	FORTRAN FCVS 78 V2.1
<u>Ada Language</u>	Current AJPO Certificate

<b>Data Management</b>	
ISAM	VXS4
Relational Database	NIST/SQL Test Suite
Calendaring and Scheduling API	None required
<b>Directory</b>	
LDAP Certified	VSLDAP
<b>User Interface</b>	
X Window System Display	VSW5 or VSW5 Lite
X Window System Application Interface	VSW5
X Window System Application Interface V2	VSW5
Motif Toolkit API	VSM4
Terminal Interfaces	VSU5
Internationalized Terminal Interfaces	None required for UNIX 95; VSU5 is required for hard conformance with UNIX 98.
<b>General Interworking</b>	
BSFT	None required
X.400 Gateway	None required
X.400 Message Access	None required
Directory Access	None required
Network File System	VXS4+XNFS
Sockets	VSU5
Sockets V2	VSU5
Transport Service (XTI)	VST5
Transport Service (XTI) V2	VST5
Internet Server	VXS4+XNFS
Internet Server V2	VXS4+XNFS
<b>Mainframe Interworking</b>	
CPI-C	None required
<b>PC Interworking</b>	
(PC)NFS Server	(PC)NFS
LMX Server	None required



<b>Media</b>	
Magnetic Media	None required
<b>CORBA</b>	
Common Object Request Broker Architecture	VSORB , VSJORB
<b>Systems Administration</b>	
Software Administration	None required

**Note 1:** In the table above no specific release of any test suite is usually given. One or two releases may be valid at any time - see the [Applicability dates](#) page for further details.

**Note 2:** VSC4 and VSU4 are no longer valid indicators of compliance from April 1st 1999.

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