Product Standard

Operating System and Languages:

COE Linux Platform V1

The Open Group

Product Standard

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Document Number: X04CP

Product Standard

NAME

COE Linux Platform V1

LABEL FOR LOGO

No label.

DESCRIPTION

The Common Operating Environment (COE) provides a foundation for building open systems. It is a ''plug-and-play'' open architecture designed around a client/server model. It provides a standard environment, a set of standard off-the-shelf components, and a set of programming standards that describe how to add new functionality to the environment. The COE is designed to run on servers, workstations, and personal computers and provides the capability for applications to share data and services/functions at the server level.

This Product Standard is for systems meeting the Linux Application Platform Compliance Criteria.[1]

Compliance to the COE Linux Platform V1 Product Standard provides a level of assurance that the system shall:

- Provide services to applications software through conforming APIs

- Present a specific appearance and behavior at the Human-Computer Interface level

- Execute the Government-Supplied Kernel Source (GSKS) code with the consistent required behavior

- Ensure that COE applications can be installed correctly and without conflict with other installed COE applications

- Demonstrate interoperability and data interchange for a basic set of Internet application-level services

- Provide a minimum set of security features and security configuration checks

- Provide for installation and operation from the suppliers' documentation ''out-of-the-box'' without any specialist knowledge

This Product Standard is the foundation for the COE Linux Platform Certification Program.

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1. Common Operating Environment (COE), Cross-Application Platform Compliance Criteria, Version 2003, available at: *www.disa.mil/ges/coe_kpc/index.html.*

CONFORMANCE REQUIREMENTS

A single configuration of the system shall meet all of the Conformance Requirements as defined in the following constituent Product Standards:

- COE Linux Platform Government-Supplied Kernel Source
- COE Platform Security
- COE Linux Platform Specifications

The following general requirements shall also apply:

- The system shall support a mechanism to provide centralized user information management.
- All directory and filenames shall contain only printable, non-blank, standard ASCII characters.
- The system shall completely separate the development environment from the runtime environment. The system shall be configured such that no development environment tools, scripts, or other executables are required at runtime.
- The system shall use the same global runtime environment configuration as provided by the COE.
- The system shall listen only on assigned ports, register only assigned RPC addresses, and, for Linux systems, add only assigned system UIDs.
- The system shall not require any specific host name.
- The system shall not use home directory-relative pathnames that become a part of the global runtime environment.
- The system shall include documentation including manual pages, help files, or HTML-format pages for distribution with the COE Developer's Toolkit.
- The release restrictions for the software and documentation provided with the system shall be documented in the COE Linux Platform V1 Conformance Statement.
- The COE compliance level (level 1-8) shall be documented in the COE Linux Platform V1 Conformance Statement.

OPERATIONAL ENVIRONMENT

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

PORTABILITY ENVIRONMENT

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

OVERRIDING STANDARDS

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

INDICATORS OF COMPLIANCE

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

MIGRATION

The COE Linux Platform V1 Product Standard is designed to be hardware-independent and should operate on a range of Linux systems running across various architectures.