Product Standard
Open Network Computer: Foundation
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NAME

Open Network Computer: Foundation

LABEL FOR LOGO

Open Network Computer

DESCRIPTION

This Network Computer Product Standard references the Network Computer Technical Standard[1].

The Network Computer is platform-independent. Any product that meets the conformance requirements described in this document can be branded as conformant. A conformant product consists of a particular combination of hardware and software, and the specific product must therefore be uniquely identified in a Conformance Statement.

A single configuration of the product shall meet all the mandatory conformance requirements defined in this document. In addition to the mandatory requirements, conformant products may implement the optional services as defined in the Optional Facilities secton of the referenced Network Computer Technical Standard.

Conformant products may also provide additional standards-based or proprietary services, as long as the mandatory conformance requirements continue to be met, or an environment in which these requirements are met can be configured by a user.

Unlike existing conformance definitions for the Open Brand, this Network Computer Product Standard does not rely solely upon specifications published by The Open Group or Standards issued by formal standards bodies. While all references in this document are to the referenced Network Computer Technical Standard, that Technical Standard in turn references specifications that are widely recognized in the industry as being *de facto* standards. The majority of these have been developed by the Internet Engineering Task Force (IETF).

CONFORMANCE REQUIREMENTS

Human-Computer Interface

- User Interface
  As defined in the referenced Network Computer Technical Standard: Providing a User Interface.
- Rendition requirements
  As defined in the referenced Network Computer Technical Standard: Rendition Requirements.

Portability Interface

- Platform-independent
- Executing Java Applets
- Java support as defined in the referenced Network Computer Technical Standard: Executing Java Applets.

Programming Language Environment

That of the chosen Portability Environment.

Interoperability

- Data Interchange Formats
  User datagram protocol (UDP) as defined in the referenced Network Computer Technical Standard: User Datagram Protocol.
- Communications Interfaces and Protocols
  - Transmission Control Protocol (TCP) as defined in the referenced Network Computer Technical Standard: Transmission Control Protocol.
  - Internet Protocol (IP) as defined in the referenced Network Computer Technical Standard: Internet Protocol.
- Processing and Presentation of Resources
  - Character Set Encoding
    as defined in the referenced Network Computer Technical Standard: Processing and Presentation of Resources.
  - Content type recognition/presentation
    text/plain, text/html, image/gif. image/jpeg, audio/basic, audio/x-wav, multipart/mixed, each as defined in the referenced Network Computer Technical Standard: Processing and Presentation of Resources.
- Hypertext Protocol Transfer Services
  - Processing Uniform Resource Locators (URLs)
    As defined in the referenced Network Computer Technical Standard: Processing Uniform Resource Locators.
  - Transmit Resource Requests
    As defined in the referenced Network Computer Technical Standard: Transmit Resource Requests.

  - Mail Services
    As defined in the referenced Network Computer Technical Standard: Send Mail.
  - Select and Retrieve Files
    As defined in the referenced Network Computer Technical Standard: Select and Retrieve Files.
  - Establish and Conduct Virtual Terminal Sessions
    As defined in the referenced Network Computer Technical Standard: Establish and Conduct Virtual Terminal Sessions.
  - File Transfer
    If File Transfer is provided, this must be implemented as defined in the referenced Network Computer Technical Standard: File Transfer.
  - Terminal Emulation
    If Terminal Emulation is provided, this must be implemented as defined in the referenced Network Computer Technical Standard: Terminal Emulation.

OPERATIONAL ENVIRONMENT

Refer to CONFORMANCE REQUIREMENTS.

PORTABILITY ENVIRONMENT

There are no dependencies on Operating System interfaces.

For languages, only the Java Platform 1.1 Core API is needed. See Portability Interface.

OVERRIDING STANDARDS

All formal standards included within the referenced Network Computer Technical Standard are specified by direct reference to the formal standard document itself.

INDICATORS OF COMPLIANCE

The Open Group has developed a Network Computer Test Suite for the Network Computer product. This Test Suite ia a mandatory indicator of compliance. Information on the availability of this Network Computer Test Suite may be obtained from The Open Group's Network Computer Test Technology links from its Network Computing public Web page, or from the address specified at the beginning of this document.

The indicator of compliance for the executon of Java Applets on the Network Computer is one of the following:

- a test report from the Open Group's Java Conformance Test Suite
- self-certification that the requirements of JavaSoft's Java Conformance for JDK 1.1 have been satisfied.

MIGRATION

As this is the first release of a Network Computer Product Standard, there are no issues of migration from earlier releases.

Footnotes

1. Technical Standard: Network Computer, February 1998, (C720).
