# **Product Standard**

General Interworking: Internet Protocol Version 6

The Open Group

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**Product Standard** 

General Interworking: Internet Protocol Version 6

Document Number: X04IP

Published in the U.K. by The Open Group, January 2004.

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2 Product Standard

## **Product Standard**

### **NAME**

Internet Protocol Version 6

## **LABEL FOR LOGO**

Internet Protocol Version 6

#### **DESCRIPTION**

This Product Standard defines a set of programming APIs and services in support of the Internet Protocol Version 6.

The Internet Protocol Version 6 Product Standard provides server-side functionality. The emphasis is on services and applications support. A standard server will provide a set of core services to support Internet applications.

The mandatory functionality includes:

• Internet Protocol Suite Version 6

## **CONFORMANCE REQUIREMENTS**

## **Human-Computer Interface**

Not applicable.

## **Portability Interface**

The Networking interfaces defined within the System Interfaces, Issue 6<sup>1</sup> and Base Definitions, Issue 6,<sup>2</sup> with the following Option Groups mandated:

• IP6

<sup>1.</sup> Technical Standard, March 2003, System Interfaces, Issue 6 (XSH), (C032, 1-931624-24-0), published by The Open Group.

<sup>2.</sup> Technical Standard, March 2003, Base Definitions, Issue 6 (XBD), (C031, 1-931624-23-2), published by The Open Group.

## **Programming Language Environment**

C Language. Dialect ISO C. ISO C source programs invoking the services of this Product Standard must be supported by the registered product.

## Interoperability

• TCP/IP Communications Service Interface

A conforming system provides a TCP/IP Communications Service interface, built on Internet Standards.

- IETF RFC 2460, Internet Protocol, Version 6 (IPv6) Specification [December 1998]
- IETF RFC 2461, Neighbor Discovery for IP Version 6 (IPv6) [December 1998]
- IETF RFC 2462, IPv6 Stateless Address Autoconfiguration [December 1998]
- IETF RFC 2463, Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification [December 1998]
- IETF RFC 3513, Internet Protocol Version 6 Addressing Architecture [April 2003]

#### **OPERATIONAL ENVIRONMENT**

None.

#### PORTABILITY ENVIRONMENT

None.

#### **OVERRIDING STANDARDS**

All formal standards included within this Product Standard are specified by a direct reference to the formal standard document itself.

## INDICATORS OF COMPLIANCE

For the constituent parts of this Product Standard there will be no initial Indicator of Compliance specified. The Open Group intends to introduce tests of application-level interoperability for protocols within this Product Standard and for the IPv6 APIs. Such tests will become a mandatory Indicator of Compliance three months after formal approval for branding. Reference should be made to *Test Suites* to ascertain whether the suite is now available, and whether the three-month period has elapsed.

## **MIGRATION**

This is a new product standard. Migration issues are anticipated to be related to the requirement for hosts to support both IPv4 and IPv6.

4 Product Standard