

# Next Steps for IPv6 Working Group

Advancing Core Specifications  
to Standard

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# Background

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- The IPv6 working group (aka IPng) was originally chartered in 1994
- We have published 61 RFC's
  - Plus 7 in RFC-Editor queue
- The Core IPv6 Protocols were made Draft Standard in 1998
- The working group is scheduled to close late this year

# One Thing to Do

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- As a final measure and to send a strong message that IPv6 is done

The chairs recommend that the working group requests the IESG that the Core IPv6 Protocols are granted Internet Standard status

- The Core IPv6 Protocols are stable, widely implemented, interoperate, etc.
  - They meet the requirements for Internet Standard

# RFC2026 Internet Standards Process

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- **Section 4.1.3 Internet Standard**

A specification for which significant implementation and successful operational experience has been obtained may be elevated to the Internet Standard level. An Internet Standard (which may simply be referred to as a Standard) is characterized by a high degree of technical maturity and by a generally held belief that the specified protocol or service provides significant benefit to the Internet community. A specification that reaches the status of Standard is assigned a number in the STD series while retaining its RFC number.

- **Section 6.2 Advancing in the Standards Track**

A specification shall remain at the Draft Standard level for at least four (4) months, or until at least one IETF meeting has occurred, whichever comes later.

# Core IPv6 Protocols

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- IPv6 Protocol
- IPv6 Address Architecture
- ICMPv6
- IPv6 Neighbor Discovery
- IPv6 Auto-Configuration
- Path MTU Discovery
- Others?
  - Privacy Extensions
  - IPv6 over Foo
  - DNS

# Proposed Procedure

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- Request that current RFCs be advanced to Internet Standard status
  - Chairs propose to not open and recycle these documents
- Notes:
  - Some of the core protocols are in RFC-Editor queue
    - IESG could just approve them as Standard when the new RFC is published
  - W.G. is close to finishing updates to ND and Auto-Conf.
    - Delay action until these have been approved by IESG
    - Effectively be changing the Request to Advance to Standard
  - What we propose is similar to NEWTRK proposals to reduce the steps in IETF standard process

# DISCUSSION