

## IANA Considerations for the Point-to-Point Protocol (PPP)

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### Abstract

The charter of the Point-to-Point Protocol (PPP) Extensions working group (pppext) includes the responsibility to "actively advance PPP's most useful extensions to full standard, while defending against further enhancements of questionable value." In support of that charter, the allocation of PPP protocol and other assigned numbers will no longer be "first come first served."

### Introduction

The Point-to-Point protocol (PPP, [RFC 1661](http://www.rfc.net/rfc1661) [1]) is a mature protocol with a large number of subprotocols, encapsulations and other extensions. The main protocol as well as its extensions involve many name spaces in which values must be assigned. <http://www.iana.org/assignments/ppp-numbers> contains a list of the address spaces and their current assignments.

Historically, initial values in new name spaces have often been chosen in the RFCs creating the name spaces. The IANA made subsequent assignments with a "First Come First Served" policy. This memo changes that policy for some PPP address spaces.

Most of the PPP names spaces are quiescent, but some continue to attract proposed extensions. Extensions of PPP have been defined in RFCs that are "Informational" and so are not subject to review. These extensions usually require values assigned in one or more of the PPP name spaces. Making these allocations require "IETF Consensus" will ensure that proposals are reviewed.

## Terminology

The terms "name space", "assigned value", and "registration" are used here with the meanings defined in [BCP 26](#) [2]. The policies "First Come First Served" and "IETF Consensus" used here also have the meanings defined in [BCP 26](#).

## IANA Considerations for PPP

IETF Consensus, usually through the Point-to-Point Protocol Extensions working group (pppext), is required for assigning new values in the following address spaces:

- PPP DLL PROTOCOL NUMBERS
- PPP LCP AND IPCP CODES
- PPP LCP CONFIGURATION OPTION TYPES
- PPP CCP CONFIGURATION OPTION TYPES
- PPP CHAP AUTHENTICATION ALGORITHMS
- PPP LCP FCS-ALTERNATIVES
- PPP MULTILINK ENDPOINT DISCRIMINATOR CLASS
- PPP LCP CALLBACK OPERATION FIELDS
- PPP BRIDGING CONFIGURATION OPTION TYPES
- PPP BRIDGING MAC TYPES
- PPP BRIDGING SPANNING TREE
- PPP IPCP CONFIGURATION OPTION TYPES
- PPP IPV6CP CONFIGURATION OPTIONS
- PPP IP-Compression-Protocol Types

## Security Considerations

This memo deals with matters of process, not protocol.

## Normative References

- [1] Simpson, W., Ed., "The Point-to-Point Protocol (PPP)", STD 51, [RFC 1661](#), July 1994.
- [2] Alvestrand, H. and T. Narten, "Guidelines for Writing an IANA Considerations Section in RFCs", [BCP 26](#), [RFC 2434](#), October 1998.

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