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V. Schryver
Rhyolite Software

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

Status of this Memo

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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 [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.

Author's Address

Vernon Schryver
Rhyolite Software
2482 Lee Hill Drive
Boulder, Colorado 80302

EMail: vjs@rhyolite.com

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