

PPP LCP Internationalization Configuration Option

1. Status of this Memo

This document is an Internet-Draft. Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as ``work in progress''.

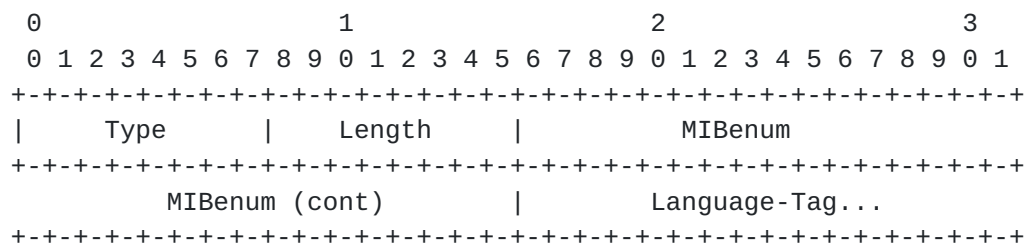
To learn the current status of any Internet-Draft, please check the ``[1id-abstracts.txt](#)'' listing contained in the Internet-Drafts Shadow Directories on [ftp.ietf.org](#) (US East Coast), [nic.nordu.net](#) (Europe), [ftp.isi.edu](#) (US West Coast), or [munnari.oz.au](#) (Pacific Rim).

The distribution of this memo is unlimited. It is filed as <[draft-ietf-pppext-lcp-charset-07.txt](#)> and expires May 20, 1999. Please send comments to the PPP Extensions Working Group mailing list ([ietf-ppp@merit.edu](#)) or to the author ([glennz@microsoft.com](#)).

2. Abstract

The Point-to-Point Protocol (PPP) [[1](#)] provides a standard method for transporting multi-protocol datagrams over point-to-point links. PPP also defines an extensible Link Control Protocol (LCP), which allows negotiation of an Authentication Protocol for authenticating its peer before allowing Network Layer protocols to transmit over the link.

Both LCP and Authentication Protocol packets may contain text which is intended to be human-readable [[2,3,4](#)]. This document defines an LCP configuration option for the negotiation of character set and language usage, as required by [RFC 2277](#) [[5](#)].



Type

28

Length

>= 7

MIBenum

The MIBenum field is four octets in length. It contains a unique integer value identifying a charset [5,11].

This value MUST represent one of the set of charsets listed in the IANA charset registry [7].

The charset registration procedure is described in RFC 2278 [9].

The default charset value is UTF-8 [10]. The MIBenum value for the UTF-8 charset is 106.

Language-Tag

The Language-Tag field is an ASCII string which contains a language tag, as defined in RFC 1766 [8].

Language tags are in principle case-insensitive; however, since the capitalization of a tag does not carry any meaning, implementations SHOULD send only lower-case Tag fields.

The default Tag value is "i-default" [8].

5. References

- [1] Simpson, W., "The Point-to-Point Protocol (PPP)", STD 51, RFC 1661, July 1994
- [2] Simpson, W., "PPP Challenge Handshake Authentication Protocol (CHAP)", RFC 1994, August 1996
- [3] Simpson, W., "PPP LCP Extensions", RFC 1570, January 1994
- [4] Blunk, L. and Vollbrecht, J., "PPP Extensible Authentication Protocol (EAP)", RFC 2284, March 1998

- [5] Alvestrand, H., "IETF Policy on Character Sets and Languages", [BCP 18](#), [RFC 2277](#), January 1998
- [6] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997
- [7] Reynolds, J. and Postel, J., "Assigned Numbers", STD 2, [RFC 1700](#), October 1994
- [8] Alvestrand, H., "Tags for the Identification of Languages", [RFC 1766](#), March 1995
- [9] Freed, N. and Postel, J., "IANA Charset Registration Procedures", [BCP 19](#), [RFC 2278](#), January 1998
- [10] Yergeau, F., "UTF-8, a transformation format of ISO 10646", [RFC 2279](#), January 1998
- [11] Smith, R., et al., "Printer MIB", [RFC 1759](#), March 1995

[6. Security Considerations](#)

It is possible that an attacker might manipulate the option in such a way that displayable messages would be unintelligible to the reader.

[7. Acknowledgements](#)

Thanks to Craig Fox (fox@cisco.com), James Carlson (carlson@ironbridgenetworks.com), Harald Alvestrand (Harald.Alvestrand@maxware.no), Kevin Smith (kevin@ascend.com), Karl Fox (karl@ascend.com), Thomas Narten (narten@raleigh.ibm.com) and Narendra Gidwani (nareng@microsoft.com) for helpful suggestions and feedback.

[8. Chair's Address](#)

The PPP Extensions Working Group can be contacted via the current chair:

Karl Fox
Ascend Communications
3518 Riverside Drive
Suite 101
Columbus, OH 43221

Phone: +1 614 326 6841
Email: karl@ascend.com

9. Author's Address

Questions about this memo can also be directed to:

Glen Zorn
Microsoft Corporation
One Microsoft Way
Redmond, Washington 98052

Phone: +1 425 703 1559
FAX: +1 425 936 7329
EMail: glennz@microsoft.com

10. Expiration Date

This memo is filed as <[draft-ietf-pppext-lcp-charset-07.txt](#)> and expires on May 20, 1999.

