Network Working Group
Request for Comments: 5612
Category: Informational

P. Eronen
Nokia
D. Harrington
Huawei Technologies (USA)

August 2009

Enterprise Number for Documentation Use

Abstract

This document describes an Enterprise Number (also known as SMI Network Management Private Enterprise Code) for use in documentation.

Status of This Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

1. Introduction

RFC 1065 [RFC1065] (later superceded by [RFC1155] and [RFC2578]) created a subtree (arc) of object identifiers (OIDs) for identifying management objects that are defined unilaterally by a single party, such as an enterprise. The subtree for a particular enterprise consists of the prefix "1.3.6.1.4.1.", followed by the Enterprise Number assigned for that enterprise.

Enterprise Numbers are allocated by IANA, and are also known as "Private Enterprise Numbers", "Enterprise Codes", and "SMI (Structure of Management Information) Network Management Private Enterprise Codes". See the "Private Enterprise Number Application Form" [Application] for more information on how to request an Enterprise Number from IANA, and [Numbers] for the list of currently assigned numbers.

Enterprise Numbers have also been used for many other purposes than OIDs in various protocols; for example:

- "STRUCTURED-DATA" identifiers in Syslog [RFC5424]
- "Vendor-Specific" RADIUS attributes [RFC2865]
- Mobile IPv4 vendor/organization-specific extensions [RFC3115]
- User-defined error information in RSVP [RFC5284]
- Vendor options in DHCPv4 [RFC3925]
- Enterprise-specific information elements in the IP Flow Information Export (IPFIX) protocol [RFC5101]

Documents related to these protocols may include examples that contain Enterprise Numbers. To reduce the likelihood of conflict and confusion, this document specifies an Enterprise Number for use in examples in RFCs, books, documentation, and the like.

This Enterprise Number is not intended to be implemented. It is not expected that any implementation would send it, or that any implementation would treat it specially when receiving it.

2. Enterprise Number for Documentation Use

The Enterprise Number 32473 has been allocated for use in examples in RFCs, books, documentation, and the like.

3. IANA Considerations

IANA has updated the registration for Enterprise Number 32473 to point to this RFC.

4. Security Considerations

Allocating an enterprise number for documentation use does not have any direct impact on security.

5. Acknowledgments

The need for an Enterprise Number for documentation use was identified by Rainer Gerhards for the examples in [RFC5424]. The authors would also like to thank Michelle Cotton for her help, and Alfred Hoenes for his comments. This document borrows text from [RFC5398] and ideas from [RFC4735].

6. References

6.1. Normative References

[Numbers] IANA, "Private Enterprise Numbers", <http://www.iana.org/assignments/enterprise-numbers>, 2009.

6.2. Informative References

[Application] IANA, "Protocol Registration Forms", http://www.iana.org/protocols/apply/.

[RFC1065] Rose, M. and K. McCloghrie, "Structure and identification of management information for TCP/IP-based internets", RFC 1065, August 1988.

[RFC1155] Rose, M. and K. McCloghrie, "Structure and identification of management information for TCP/IP-based internets", STD 16, RFC 1155, May 1990.

[RFC2578] McCloghrie, K., Perkins, D., and J. Schoenwaelder, "Structure of Management Information Version 2 (SMIv2)", STD 58, RFC 2578, April 1999.

[RFC2865] Rigney, C., Willens, S., Rubens, A., and W. Simpson, "Remote Authentication Dial In User Service (RADIUS)", RFC 2865, June 2000.

[RFC3115] Dommety, G. and K. Leung, "Mobile IP Vendor/ Organization-Specific Extensions", RFC 3115, April 2001.

[RFC3925] Littlefield, J., "Vendor-Identifying Vendor Options for Dynamic Host Configuration Protocol version 4 (DHCPv4)", RFC 3925, October 2004.

[RFC4735] Taylor, T., "Example Media Types for Use in Documentation", RFC 4735, October 2006.

[RFC5101] Claise, B., "Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of IP Traffic Flow Information", RFC 5101, January 2008.

[RFC5284] Swallow, G. and A. Farrel, "User-Defined Errors for RSVP", RFC 5284, August 2008.

[RFC5398] Huston, G., "Autonomous System (AS) Number Reservation for Documentation Use", RFC 5398, December 2008.

[RFC5424] Gerhards, R., "The Syslog Protocol", RFC 5424, March 2009.

Authors' Addresses

Pasi Eronen
Nokia Research Center
P.O. Box 407
FIN-00045 Nokia Group
Finland

EMail: pasi.eronen@nokia.com

David Harrington
Huawei Technologies (USA)
1700 Alma Drive, Suite 100
Plano, TX 75075
USA

EMail: dharrington@huawei.com