IANA Considerations for
IPv4 Internet Group Management Protocol (IGMP)

Status of this Memo

This document specifies an Internet Best Current Practices for the
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Abstract

This memo requests that the IANA create a registry for fields in the
IGMP (Internet Group Management Protocol) protocol header, and
provides guidance for the IANA to use in assigning parameters for
those fields.

Table of Contents

1. Introduction. ................................. 1
2. IANA Considerations for fields in the IPv4 IGMP header. 2
3. Assignments for testing and experimentation ........ 2
4. Security Considerations ....................... 2
5. Normative References.......................... 2
6. Informative References.......................... 3
7. Author’s Address............................... 3
8. Full Copyright Statement..................... 4

1. Introduction

This memo requests that the IANA create a registry for fields in the
IGMP protocol header.

The terms "Specification Required", "Expert Review", "IESG Approval",
"IETF Consensus", and "Standards Action", are used in this memo to
refer to the processes described in [2].
2. IANA Considerations for fields in the IPv4 IGMP header

The IPv4 IGMP header [1] contains the following fields that carry values assigned from IANA-managed name spaces: Type and Code. Code field values are defined relative to a specific Type value.

Values for the IPv4 IGMP Type fields are allocated using an IESG Approval or Standards Action processes. Code Values for existing IPv4 IGMP Type fields are allocated using IESG Approval or Standards Action processes. The policy for assigning Code values for new IPv4 IGMP Types should be defined in the document defining the new Type value.

3. Assignments for testing and experimentation

Instead of suggesting temporary assignments as in [3], this document follows the lead of [4] and assigns a range of values for experimental use. The IGMP Code values 240-255 inclusive (0xf0 - 0xff) are reserved for protocol testing and experimentation.

Systems should silently ignore IGMP messages with unknown Code values.

4. Security Considerations

Security analyzers such as firewalls and network intrusion detection monitors often rely on unambiguous interpretations of the fields described in this memo. As new values for the fields are assigned, existing security analyzers that do not understand the new values may fail, resulting in either loss of connectivity if the analyzer declines to forward the unrecognized traffic, or loss of security if it does forward the traffic and the new values are used as part of an attack. This vulnerability argues for high visibility (which the Standards Action and IETF Consensus processes ensure) for the assignments whenever possible.

5. Normative References


6. Informative References


7. Author’s Address

Bill Fenner  
AT&T Labs -- Research  
75 Willow Rd  
Menlo Park, CA 94025  
USA

EMail: fenner@research.att.com
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