IANA Considerations for Connectivity Fault Management (CFM) Code Points

Abstract

   IEEE 802.1 has specified Connectivity Fault Management (CFM)
   Operations, Administration, and Maintenance (OAM) facilities. CFM
   messages are structured with an OpCode field and have provision for
   the inclusion of TLV-structured information. IEEE 802.1 has
   allocated blocks of CFM OpCodes and TLV Types to the IETF. This
   document specifies the IANA considerations for the assignment of
   values from these blocks.

Status of This Memo

   This memo documents an Internet Best Current Practice.

   This document is a product of the Internet Engineering Task Force
   (IETF). It represents the consensus of the IETF community. It has
   received public review and has been approved for publication by the
   Internet Engineering Steering Group (IESG). Further information on
   BCPs is available in Section 2 of RFC 5741.

   Information about the current status of this document, any errata,
   and how to provide feedback on it may be obtained at
   http://www.rfc-editor.org/info/rfc7319.

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1. Introduction

   The IEEE 802.1 Working Group has specified Connectivity Fault
   Management (CFM) [802.1Q] OAM [RFC6291] facilities. CFM messages are
   structured with an OpCode field and have provision for the inclusion
   of TLV-structured information.

   IEEE 802.1 has allocated the block of 32 CFM OpCodes from 64 through
   95 and the block of 32 CFM TLV Types from 64 through 95 to the IETF
   (see Appendix A). This document specifies the IANA considerations
   for the assignment of values from these two blocks.

   IEEE 802.1 previously allocated similar blocks of values from 32
   through 63 to ITU-T [Y.1731].

1.1. Terminology

   Capitalized IANA terms such as "Standards Action" are to be
   interpreted as described in [RFC5226].

2. IANA Considerations

   IANA has created the "Connectivity Fault Management (CFM) OAM IETF
   Parameters" registry with the following two subregistries:

      Registry Name: CFM OAM IETF OpCodes

      Registration Procedures: Standards Action

      Reference: [802.1Q] [RFC7319]

      Note: This parameter originates with the IEEE 802.1 Working Group
      that has allocated the block of values from 64 to 95 to the IETF.

      Value   Assignment
      =====   ==========
      64-95   Unassigned

Registry Name: CFM OAM IETF TLV Types

Registration Procedures: Standards Action

Reference: [802.1Q] [RFC7319]

Note: This parameter originates with the IEEE 802.1 Working Group that has allocated the block of values from 64 to 95 to the IETF.

```
Value     Assignment
=====     ==========
64-95     Unassigned
```

3. Security Considerations

This document is concerned with assignment of values from the blocks of IEEE 802.1 CFM OpCodes and TLV Types that the IEEE 802.1 Working Group has allocated to the IETF. It is not directly concerned with security.

4. References

4.1. Normative References

[802.1Q]   IEEE, "IEEE Standard for Local and metropolitan area networks -- Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks", IEEE Std 802.1Q, 2011.

[RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 5226, May 2008.

4.2. Informative References

[RFC6291] Andersson, L., van Helvoort, H., Bonica, R., Romascanu, D., and S. Mansfield, "Guidelines for the Use of the "OAM" Acronym in the IETF", BCP 161, RFC 6291, June 2011.

[Y.1731]   ITU-T, "OAM Functions and Mechanisms for Ethernet-based Networks", Recommendation G.8013/Y.1731, November 2013.

Appendix A.   IEEE 802.1 WG Liaison

    To: Jari Arkko, IETF chair
    cc: Stephen J. Trowbridge, ITU-T SG15 chair,
                 Donald Eastlake, Erik Nordmark, IETF TRILL WG,
                 Eric Gray, IETF/IEEE liaison

    From: Tony Jeffree, IEEE 802.1 WG Chair

    Date: Thursday, 06 March 2014

    Reference: 24 September 2013 Liaison from TRILL WG

    After considering the referenced liaison from the TRILL WG, IEEE
    802.1 has voted to approve the allocation of code points from the
    Connectivity Fault Management protocol of IEEE Std 802.1Q(TM)-2011
    for use by IETF. The expectation of IEEE 802.1 is that these code
    points will be allocated through IANA only on the basis of IETF
    standards actions. Specifically, the allocation includes:

      + 32 CFM OpCode Field values. Reference IEEE Std 802.1Q-2011

        Clause 21.4.3, Table 21-4. The OpCode Field values 64-95
                                                              10
        are allocated to the IETF.

      + 32 TLV Type Field values. Reference IEEE Std 802.1Q-2011

        Clause 21.5.1.1, Table 21-6. The Type Field values 64-95
                                                              10
        are allocated to the IETF.

    IEEE Std 802.1Q will be revised at some future date to document
    this allocation. In the meantime, the allocation will be recorded
    through the IEEE 802.1 maintenance process.

    Regards,

    Tony Jeffree
    IEEE 802.1 Working Group Chair

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