            Moving Generic Associated Channel (G-ACh) IANA Registries
                           to a New Registry

Abstract

   RFC 5586 generalized the applicability of the pseudowire Associated
   Channel Header (PW-ACH) into the Generic Associated Channel G-ACh.
   However, registries and allocations of G-ACh parameters had been
   distributed throughout different, sometimes unrelated, registries.
   This document coalesces these into a new "Generic Associated Channel
   (G-ACh) Parameters" registry under the "Multiprotocol Label Switching
   Architecture (MPLS)" heading. This document updates RFC 5586.

   This document also updates RFCs 6374, 6378, 6427, and 6428.

Status of This Memo

   This is an Internet Standards Track document.

   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
   Internet Standards 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/rfc7214.

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1. Introduction

   RFC 5586 generalized the PW-ACH into the G-ACh. However, registries
   and allocations of G-ACh namespaces had been distributed throughout
   different registries. This document coalesces these into a new
   "Generic Associated Channel (G-ACh) Parameters" registry in the
   "Multiprotocol Label Switching Architecture (MPLS)" name space. This
   reorganization achieves two purposes: it allocates the G-ACh
   registries in their natural place in the MPLS names space, and it
   provides a single view of the G-ACh registries, to simplify future
   assignments and avoid potential conflicts. This is an update to RFC
   5586 [RFC5586].

Further, the "Pseudowire Associated Channel Types" registry is renamed to "Generalized Associated Channel (G-ACh) Types (including Pseudowire Associated Channel Types)" to make its generalized status explicit, and it is moved into the newly created registry.

Additionally, RFC 6374 [RFC6374], RFC 6378 [RFC6378], RFC 6427 [RFC6427], and RFC 6428 [RFC6428] specify allocations within the G-ACh that are now moved into the new registry.

With respect to where to find these IANA registries, the RFCs listed above are updated as indicated in Section 3; however, the registries themselves are not changed (with the exception of one being renamed). They are moved unchanged to the new registry.

2. IANA Considerations

IANA has added this document as a reference for each registry that has been moved or renamed as a result of actions requested by this document.

IANA has replaced all the relocated registries with pointers to the new URL or with a redirect.

2.1. Creation of a New Generic Associated Channel (G-ACh) Parameters IANA Registry

IANA has created a new "Generic Associated Channel (G-ACh) Parameters" registry. This is the common registry that will include all the registries being moved in Sections 2.2 and 2.3.

2.2. Renaming and Moving the Pseudowire Associated Channel Types Registry

This document renames the "Pseudowire Associated Channel Types" registry [IANA-PWE3] to "MPLS Generalized Associated Channel (G-ACh) Types (including Pseudowire Associated Channel Types)". This registry has been moved and included in the "Generic Associated Channel (G-ACh) Parameters" registry created in Section 2.1 because any additional registries are dependent upon the Associated Channel Header Type.

At the time of publishing this document and moving the registry, the following RFCs have G-ACh Types allocated: [RFC4385], [RFC5586], [RFC5718], [RFC5885], [RFC6374], [RFC6378], [RFC6426], [RFC6427], [RFC6428], [RFC6435], [RFC6478], and [RFC6671].

2.3. Consolidating G-ACh Registries

This document further updates the following RFCs by moving the registries related to G-ACh to the common "Generic Associated Channel (G-ACh) Parameters" registry created in Section 2.1.

o From the PWE Parameters Registry [IANA-PWE3]:

   * MPLS Generalized Associated Channel (G-ACh) Types [RFC5586]

   * CC/CV MEP-ID TLV Registry [RFC6428]

o From the MPLS LSP Ping Parameters Registry [IANA-LSP-Ping]:

   * Measurement Timestamp Type [RFC6374]

   * Loss/Delay Measurement Control Code: Query Codes [RFC6374]

   * Loss/Delay Measurement Control Code: Response Codes [RFC6374]

   * MPLS Loss/Delay Measurement TLV Object [RFC6374]

o From the MPLS OAM Parameters Registry [IANA-MPLS-OAM]:

   * MPLS Fault OAM Message Type Registry [RFC6427]

   * MPLS Fault OAM Flag Registry [RFC6427]

   * MPLS Fault OAM TLV Registry [RFC6427]

   * MPLS PSC Request Registry [RFC6378]

   * MPLS PSC TLV Registry [RFC6378]

   Note that all the sub-registries in [IANA-MPLS-OAM] have been removed from "Multiprotocol Label Switching (MPLS) Operations, Administration, and Management (OAM) Parameters" registry. Therefore, the IANA has removed the MPLS OAM registry, per this document.

3. RFC Updates

This document updates [RFC5586] renaming the "Pseudowire Associated Channel Types" [IANA-PWE3] to "MPLS Generalized Associated Channel (G-ACh) Types (including Pseudowire Associated Channel Types)".

This document also updates the following RFCs by moving the G-ACh
related registries to a common "MPLS Generic Associated Channel
(G-ACh) Parameters" registry: RFCs 6374, 6378, 6427, and 6428.

All the registries listed above are moved without any changes to
their content. The reason to move them is to create on single place
where it is possible to find all the G-ACh parameters.

4. Security Considerations

The IANA instructions in this document do not directly introduce any
new security issues.

5. Acknowledgements

The authors want to thank Amanda Baber and Scott Bradner for review
and valuable comments.

6. References

6.1. Normative References

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6.2. Informative References

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                <http://www.iana.org/assignments/
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                has been moved to
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