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L. Andersson
Huawei
C. Pignataro
Cisco
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Moving Generic Associated Channel (G-ACh) IANA registries to a new
registry
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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)" registry under the "Multiprotocol Label Switching Architecture (MPLS)" heading. This document updates [RFC 5586](#).

This document also updates [RFC 6374](#), [RFC 6428](#), [RFC 6378](#), [RFC 6427](#), RFC-ietf-mpls-gach-adv-08, and RFC-ietf-mpls-tp-ethernet-addressing-08.

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Creating G-ACh registries

December 2013

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 registry" in the "Multiprotocol Label Switching Architecture (MPLS)" name space. This is an update to RFC [RFC 5586](#) [[RFC5586](#)].

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

Additionally, [RFC 6374](#) [[RFC6374](#)], [RFC 6428](#) [[RFC6428](#)], [RFC 6378](#) [[RFC6378](#)], [RFC 6427](#) [[RFC6427](#)], RFC-ietf-mpls-gach-adv-08 [[I-D.ietf-mpls-gach-adv](#)], and RFC-ietf-mpls-tp-ethernet-addressing-08 [[I-D.ietf-mpls-tp-ethernet-addressing](#)] 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.

Editor's note:

Need to fix the references to RFC-ietf-mpls-gach-adv-08 and RFC-ietf-mpls-tp-ethernet-addressing-08

2. IANA Considerations

IANA is requested to add this document as a reference for any registry that is moved or renamed as a result of actions requested by this document.

IANA is also requested to replace 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) IANA registry

IANA is requested to create a new "Generic Associated Channel (G-ACh)" registry under the "Multiprotocol Label Switching Architecture (MPLS)" heading.

[2.2.](#) Renaming the Pseudowire Associated Channel Types registry

This document renames the "Pseudowire Associated Channel Types" [[IANA-PWE3](#)] into "MPLS Generalized Associated Channel (G-ACh) Types (including Pseudowire Associated Channel Types)". This registry is included as the first registry because any additional registration is dependent upon the Associated Channel Header Type.

[2.3.](#) Consolidating G-ACh registries

This document further updates the following RFCs by moving the G-ACh related registrations to a common "MPLS Generic Associated Channel Parameters" registry:

- o From the PWE Registry [[IANA-PWE3](#)]:
 - * MPLS Generalized Associated Channel (G-ACh) Types [[RFC5586](#)]
 - * G-ACh Advertisement Protocol Application Registry [[I-D.ietf-mpls-gach-adv](#)]
 - * G-ACh Advertisement Protocol TLV Registry [[I-D.ietf-mpls-gach-adv](#)]
 - * G-ACh Advertisement Protocol: Ethernet Interface Parameters [[I-D.ietf-mpls-tp-ethernet-addressing](#)]
 - * CC/CV MEP-ID TLV Registry [[RFC6428](#)]

- o From the LSP Ping 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 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](#)] are moved from "Multiprotocol Label Switching (MPLS) Operations, Administration, and Management (OAM) Parameters" registry. The IANA is therefore requested to remove the "MPLS OAM" registry.

3. RFC Updates

This document updates [[RFC5586](#)] renaming the "Pseudowire Associated Channel Types" [[IANA-PWE3](#)] into "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 registrations to a common "MPLS Generic Associated Channel (G-ACh)" registry: [RFC 6374](#), [RFC 6428](#), [RFC 6378](#), [RFC 6427](#), RFC-ietf-mpls-gach-adv-08, and RFC-ietf-mpls-tp-ethernet-addressing-08.

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 Barber for review and valuable comments.

[6.](#) References

[6.1.](#) Normative References

[I-D.ietf-mpls-gach-adv]

Frost, D., Bryant, S., and M. Bocci, "MPLS Generic Associated Channel (G-ACh) Advertisement Protocol", [draft-ietf-mpls-gach-adv-08](#) (work in progress), June 2013.

[I-D.ietf-mpls-tp-ethernet-addressing]

Frost, D., Bryant, S., and M. Bocci, "MPLS-TP Next-Hop Ethernet Addressing", [draft-ietf-mpls-tp-ethernet-addressing-08](#) (work in progress), July 2013.

[RFC5586] Bocci, M., Vigoureux, M., and S. Bryant, "MPLS Generic Associated Channel", [RFC 5586](#), June 2009.

[RFC6374] Frost, D. and S. Bryant, "Packet Loss and Delay Measurement for MPLS Networks", [RFC 6374](#), September 2011.

[RFC6378] Weingarten, Y., Bryant, S., Osborne, E., Sprecher, N., and A. Fulignoli, "MPLS Transport Profile (MPLS-TP) Linear Protection", [RFC 6378](#), October 2011.

[RFC6427] Swallow, G., Fulignoli, A., Vigoureux, M., Boutros, S., and D. Ward, "MPLS Fault Management Operations, Administration, and Maintenance (OAM)", [RFC 6427](#), November 2011.

[RFC6428] Allan, D., Swallow Ed. , G., and J. Drake Ed. , "Proactive Connectivity Verification, Continuity Check, and Remote Defect Indication for the MPLS Transport Profile", [RFC 6428](#), November 2011.

6.2. Informative References

[IANA-LSP-Ping]

Internet Assigned Numbers Authority, "Multi-Protocol Label Switching (MPLS) Label Switched Paths (LSPs) Ping Parameters",
<<http://www.iana.org/assignments/mpls-lsp-ping-parameters>>.

[IANA-MPLS-OAM]

Internet Assigned Numbers Authority, "Multiprotocol Label Switching (MPLS) Operations, Administration, and Management (OAM) Parameters",
<<http://www.iana.org/assignments/mpls-oam-parameters>>.

[IANA-PWE3]

Internet Assigned Numbers Authority, "Pseudowire Name Spaces (PWE3)",
<<http://www.iana.org/assignments/pwe3-parameters>>.

Authors' Addresses

Loa Andersson
Huawei

Email: loa@mail01.huawei.com

Carlos Pignataro
Cisco

Email: cpignata@cisco.com