

Workgroup: IDR Working Group
Internet-Draft:
draft-ietf-idr-bgp-ext-com-registry-05
Updates: [7153](#) [8955](#) (if approved)
Published: 16 December 2021
Intended Status: Standards Track
Expires: 19 June 2022
Authors: C. Loibl
 next layer Telekom GmbH
 BGP Extended Community Registries Update

Abstract

This document updates several BGP Extended Community registries in order to replace the "Experimental Use" registration procedure in some entries, since their use is clearly not experimental and thus misleading.

This document updates RFC7153 and RFC8955.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at <https://datatracker.ietf.org/drafts/current/>.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

This Internet-Draft will expire on 19 June 2022.

Copyright Notice

Copyright (c) 2021 IETF Trust and the persons identified as the document authors. All rights reserved.

This document is subject to BCP 78 and the IETF Trust's Legal Provisions Relating to IETF Documents (<https://trustee.ietf.org/license-info>) in effect on the date of publication of this document. Please review these documents carefully, as they describe your rights and restrictions with respect to this document. Code Components extracted from this document must include Revised BSD License text as described in

Section 4.e of the Trust Legal Provisions and are provided without warranty as described in the Revised BSD License.

Table of Contents

- [1. Introduction](#)
- [2. IANA Considerations](#)
 - [2.1. Registry: BGP Transitive Extended Community Types](#)
 - [2.2. Registry: Generic Transitive Experimental Use Extended Community Sub-Types](#)
 - [2.3. Registry: Generic Transitive Experimental Use Extended Community Part 2 Sub-Types](#)
 - [2.4. Registry: Generic Transitive Experimental Use Extended Community Part 3 Sub-Types](#)
- [3. Security Considerations](#)
- [4. Acknowledgements](#)
- [5. References](#)
 - [5.1. Normative References](#)
 - [5.2. Informative References](#)
- [Author's Address](#)

1. Introduction

[[RFC7153](#)] reorganizes the IANA registries for the type values and sub-type values of the BGP Extended Communities attribute. As a result the IANA maintained registry entitled "BGP Transitive Extended Community Types" includes a range of Type Values (0x80-0x8F) reserved for Experimental Use. Out of this experimental range the types 0x80, 0x81, 0x82 have been used in [[RFC5575](#)] and [[RFC7674](#)] (both documents rendered Obsolete by [[RFC8955](#)]). The primary use for those types and sub-type registries is non experimental.

[Section 2](#) of this document requests the registry cleanup to reflect the actual use of those code-points (removing "Experimental Use" from the sub-type registry names) and changes the registration procedure of the types 0x80, 0x81, 0x82 to use the First Come First Served policy [[RFC8126](#)] and thus updates [[RFC7153](#)] and [[RFC8955](#)].

2. IANA Considerations

2.1. Registry: BGP Transitive Extended Community Types

IANA maintains a registry entitled "BGP Transitive Extended Community Types". IANA is requested to add [this document] to the Reference of this registry, update the Name of the Type Values according to [Table 1](#) and append a reference to [this document] to the existing references.

Type Value	Name	Reference
0x80	Generic Transitive Extended Community (Sub-Types are defined in the "Generic Transitive Extended Community Sub-Types" registry)	[add this document]
0x81	Generic Transitive Extended Community Part 2 (Sub-Types are defined in the "Generic Transitive Extended Community Part 2 Sub-Types" registry)	[add this document]
0x82	Generic Transitive Extended Community Part 3 (Sub-Types are defined in the "Generic Transitive Extended Community Part 3 Sub-Types" registry)	[add this document]

Table 1: Registry: BGP Transitive Extended Community Types

Furthermore IANA is requested to change the registration procedures of this registry of Type Values 0x80 thru 0x82 to First Come First Served [[RFC8126](#)]. The resulting Registration Procedures should read as in [Table 2](#).

Range	Registration Procedures
0x00-0x3f	First Come First Served
0x80-0x82	First Come First Served (see [this document])
0x83-0x8f	Reserved for Experimental Use (see [RFC3692])
0x90-0xbf	Standards Action

Table 2: Registration Procedures: BGP Transitive Extended Community Types

2.2. Registry: Generic Transitive Experimental Use Extended Community Sub-Types

IANA maintains a registry entitled "Generic Transitive Experimental Use Extended Community Sub-Types". IANA is requested to add [this document] to the Reference of this registry and update the registry title to:

"Generic Transitive Extended Community Sub-Types"

2.3. Registry: Generic Transitive Experimental Use Extended Community Part 2 Sub-Types

IANA maintains a registry entitled "Generic Transitive Experimental Use Extended Community Part 2 Sub-Types". IANA is requested to add [this document] to the Reference of this registry and update the registry title to:

"Generic Transitive Extended Community Part 2 Sub-Types"

2.4. Registry: Generic Transitive Experimental Use Extended Community Part 3 Sub-Types

IANA maintains a registry entitled "Generic Transitive Experimental Use Extended Community Part 3 Sub-Types". IANA is requested to add [this document] to the Reference of this registry and update the registry title to:

"Generic Transitive Extended Community Part 3 Sub-Types"

3. Security Considerations

There are no direct security considerations arising from this document.

4. Acknowledgements

The author wants to thank Alvaro Retana who pointed out, that the IANA registry contains misleading entries in this context.

5. References

5.1. Normative References

- [RFC7153] Rosen, E. and Y. Rekhter, "IANA Registries for BGP Extended Communities", RFC 7153, DOI 10.17487/RFC7153, March 2014, <<https://www.rfc-editor.org/info/rfc7153>>.
- [RFC8126] Cotton, M., Leiba, B., and T. Narten, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 8126, DOI 10.17487/RFC8126, June 2017, <<https://www.rfc-editor.org/info/rfc8126>>.

5.2. Informative References

- [RFC3692] Narten, T., "Assigning Experimental and Testing Numbers Considered Useful", BCP 82, RFC 3692, DOI 10.17487/RFC3692, January 2004, <<https://www.rfc-editor.org/info/rfc3692>>.
- [RFC5575] Marques, P., Sheth, N., Raszuk, R., Greene, B., Mauch, J., and D. McPherson, "Dissemination of Flow

Specification Rules", RFC 5575, DOI 10.17487/RFC5575,
August 2009, <<https://www.rfc-editor.org/info/rfc5575>>.

[RFC7674] Haas, J., Ed., "Clarification of the Flowspec Redirect
Extended Community", RFC 7674, DOI 10.17487/RFC7674,
October 2015, <<https://www.rfc-editor.org/info/rfc7674>>.

[RFC8955] Loibl, C., Hares, S., Raszuk, R., McPherson, D., and M.
Bacher, "Dissemination of Flow Specification Rules", RFC
8955, DOI 10.17487/RFC8955, December 2020, <[https://
www.rfc-editor.org/info/rfc8955](https://www.rfc-editor.org/info/rfc8955)>.

Author's Address

Christoph Loibl
next layer Telekom GmbH
Mariahilfer Guertel 37/7
1150 Vienna
Austria

Phone: [+43 664 1176414](tel:+436641176414)

Email: cl@tix.at