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.

Status of This Memo

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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) with Experimental Use registration procedure. Out of
   this experimental range the types 0x80, 0x81, 0x82 have been
   assigned via [RFC5575] and [RFC7674]. 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 first come first serve.

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 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		

Type Value	Name	Reference
	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 Serve. 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 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 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 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

[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>.

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