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Four-octet AS Specific BGP Extended Community

[draft-ietf-l3vpn-as4octet-ext-community-00.txt](#)

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This sub-field contains a 4-octets Autonomous System number assigned by IANA.

Local Administrator sub-field: 2 octets

The organization identified by Autonomous System number in the Global Administrator sub-field, can encode any information in this sub-field. The format and meaning of the value encoded in this sub-field should be defined by the sub-type of the community.

3. IANA Considerations

This document defines a class of extended communities called four-octet AS specific extended community for which the IANA is to create and maintain a registry entitled Four-octet AS Specific Extended Community. All the communities in this class are of extended Types. Future assignment are to be made using the "First Come First Served" policy defined in [[RFC2434](#)]. The Type values for the transitive communities of the four-octet AS specific extended community class are 0x0200-0x02ff, and for the non-transitive communities of that class are 0x4200-0x42ff. Assignments consist of a name and the value.

This document makes the following assignments for the four-octet AS specific extended community:

Name	Type Value
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four-octet AS specific Route Target	0x0202
four-octet AS specific Route Origin	0x0203

4. Security Considerations

All the security considerations for BGP Extended Communities apply here.

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8. Acknowledgements

9. Normative References

[BGP-4] Rekhter, Y., and T. Li, "A Border Gateway Protocol 4 (BGP-4)", [RFC 4271](#), January 2006

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.

[RFC2434] Narten, T., Alvestrand, H., "Guidelines for Writing an IANA Considerations Section in RFCs", [RFC2434](#), October 1998.

[EXT-COMM] Srihari R. Sangli, Daniel Tappan, Yakov Rekhter, "BGP Extended Communities Attribute", [RFC 4360](#), February 2006.

10. Non-normative References

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