

## Registering New BGP Attribute Types

### Status of this Memo

This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

### Process:

This document describes the process for creating new BGP attribute type codes. Basic attribute type codes are described in [RFC 1771](#), pages 12 through 15. These, and new attribute type codes that are used in the Internet are registered with the IANA.

The actual process will involve the documentation of such attribute type codes in an RFC. There is no intention of segmenting the code space into public/private or IP/OSI or any other sectioning.

As each attribute type code is in the process of being developed, it will use an octet value of 255, which will be reserved for this use. At the time an attribute type code is assigned a number by the IANA, the documentation and code base will be updated to reflect the authorized attribute type code value.

IANA maintained values will be published in the periodically updated Assigned Numbers RFC [\[6\]](#). Requests for assignment of a new attribute type code should be sent to the IANA (IANA@IANA.ORG) with a subject that includes the phrase "BGP Attribute Type".

Currently in use attribute type codes are listed below:

Value	Code	Reference
1	ORIGIN	[1]
2	AS_PATH	[1]
3	NEXT_HOP	[1]
4	MULTI_EXIT_DISC	[1]
5	LOCAL_PREF	[1]
6	ATOMIC_AGGREGATE	[1]
7	AGGREGATOR	[1]
8	COMMUNITY	[2]
9	ORIGINATOR_ID	[3]
10	CLUSTER_LIST	[3]
11	DPA	[4]
12	ADVERTISER	[5]
13	RCID_PATH / CLUSTER_ID	[5]
...		
255	reserved for development	

#### Security Considerations

Security issues are not discussed in this memo.

#### References

- [1] Rekhter, Y., and Li, T., "A Border Gateway Protocol 4 (BGP-4)", [RFC 1771](#), March 1995.
- [2] Chandra, R., Traina, P., and T. Li, "BGP Communities Attribute", [RFC 1997](#), August 1996.
- [3] Bates, T., Chandra, R., "BGP Route Reflection An alternative to full mesh IBGP", [RFC 1998](#), June 1996.
- [4] Chen, E., Bates, T., "Destination Preference Attribute for BGP", Work in progress, March 1996.
- [5] Haskin, D., "A BGP/IDRP Route Server alternative to a full mesh routing", [RFC 1863](#), October 1995.
- [6] Reynolds, J., and J. Postel, "Assigned Numbers", STD 2, [RFC 1700](#), ISI, October 1994.

Author's Address

Bill Manning  
USC/ISI  
4676 Admiralty Way  
Marina del Rey, CA. 90292

Phone: 01.310.822.1511  
EMail: [bmanning@isi.edu](mailto:bmanning@isi.edu)