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BGP Registries by IDR and other BGP WGs  
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## Abstract

The BGP Registries at IANA were set-up as one of the earliest IANA registries. Over time, the registries have become denoted as requiring "standards action", "early allocation", "FCFS (first-come, first server)", "vendor specific", and "IETF review". This draft proposes that certain BGP registries that are labelled "standards action", "early allocation", or "IETF Review" add to these registration actions a "Expert Review. It also proposes that the chairs of BGP Protocol related WG groups be part of the review team. The intent is that these chairs will be responsible to bring questionable allocations to their workings attention.

The BGP relate working groups are currently the IDR, BESS, SIDROPS, and GROW, but other working groups like SPRING might be added.

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## 1. Introduction

During 2016, several BGP attributes were squatted upon causing operational problems during the early deployment of large communities [RFC8092]. Due these problems, [RFC8093] deprecated the use of 5 attribute numbers.

To avoid this problem in the future, it is helpful to increase pace of early-allocations process and to coordinate the review of key BGP registries. This document proposes to augment existing registration process for BGP registries with Expert review.

This draft proposes that certain BGP registries that are labelled "standards action", "early allocation", or "IETF Review" add to these registration actions a "Expert Review". It also recommends that the chairs of BGP Protocol related WG groups be part of the review team.

## 2. BGP Registries to Change Registration Process on

This document proposes the IETF BGP registries in Table 1 below to require their current registration policy plus Expert Review. It recommends that the chairs of the BGP related working groups (e.g. IDR, Bess, SIDROPS, GROW) be a part of this review team. The IESG can define which working groups are BGP working groups, but it is important to get the chairs of the Working Groups that originate or maintain the drafts in Table 1 as part of the review team.

If no BGP WG groups remain, the IESG may select designated experts to fulfill this role.

ER = Expert Review

Table 1 - Registries with changes

BGP registry	Registration	reference	Add ER
Message Types	Standards Action	RFC4271	yes
BGP Path Attributes	Standards Action	RFC4271	yes
BGP Error (notification) codes	Standards Action	RFC4271 RFC7313	yes
BGP Error Subcodes	Standards Action	RFC4271	yes
Open Message Error subcodes	Standards Action	RFC4271	yes
Update Message Error subcodes	Standards Action	RFC4271	yes
BGP Finite State Machine Error subcodes	Standards Action	RFC6608	yes
BGP Cease NOTIFICATION message subcodes	Standards Action or Early Allocation	RFC4486	yes
BGP Route Refresh Message Error subcodes	Standards Action (1-127 range)	RFC7313	yes
BGP Outbound Route Filtering (ORF) Types	Standards Action	RFC5291	yes
BGP Open Optional Parameter types	IETF Review	RFC5492	yes
BGP Tunnel Encapsulation Attribute Sub-TLVS	Standards Action	RFC5512	yes
BGP AIGP Attribute	Standards Action	RFC7311	Yes

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BGP AIGP Attribute	Standards Action	RFC7311	Yes
Route Refresh Subcdes	Standards Action (1-127)	RFC7313	Yes
P-Multicast Service Interface Tunnel (PMSI) Tunnel Types	IETF Review	RFC7385	Yes
P-Multicast Service Interface Tunnel (PMSI) Attribute Flags	Standards Action	RFC7385	Yes
BGP MCAST-VPN Route Types	Standards Action	RFC7441	Yes

The registries in Table 2 have Expert Review. This document requests that IANA increase their designated expert pool by adding the pool of chairs in BGP related Working Groups (E.g. IDR, BESS, SIDROPS, GROW).

ER = Expert Review

Table 2 - Registries with Expert Review

BGP registry	Registration	reference	Add ER
BGP Layer 2 Encapsulation Types	Expert Review (0-127)	RFC6624	yes
BGP Layer 2 TLV Types	Expert Review	RFC6624	yes

### 3. Security Considerations

Administrative process - Not applicable.

#### 4. IANA Considerations

For all of the BGP registries or portions of BGP Registries listed in table 1 append "Designated reviewers" to the registration process.

This document requests the IESG nominate the chairs of the current BGP related working groups which manage the following base protocols that established the registries:

[RFC4271],

[RFC4486],

[RFC5291],

[RFC5492],

[RFC5512],

[RFC6608],

[RFC6624],

[RFC7311],

[RFC7313],

[RFC7385],

[RFC7441],

#### 5. Acknowledgements

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