



# IANA Registry Updates

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# Agenda

- Changes to the Autonomous System (AS) Numbers Registry
- Restructuring of the IPv4 and IPv6 Special-Purpose Address Registry
- Contact information changes for Protocol Parameter requests

# Changes to the Autonomous System (AS) Numbers

## 16-bit Autonomous System Number Registry

- Corrected the description for the remaining available block
- Previously marked as “Reserved by the IANA”
- Users of the registry were trying to deploy filters in their networks to reject BGP announcements with Reserved ASNs.

64396-64495	Unallocated
64496-64511	Reserved for use in documentation and sample code
64512-65534	Reserved for Private Use
65535	Reserved

See Registry: <http://www.iana.org/assignments/as-numbers>

# Restructuring of the IPv4 and IPv6 Special-Purpose Address Registry

I-D: draft-bchv-rfc6890bis-00.txt

- Proposes re-naming the “Global” column to “Globally Reachable”

Source  Destination  Forwardable  Global  Reserved-by-Protocol

**Globally Reachable** - A boolean value indicating whether an IP datagram whose destination address is drawn from the allocated special-purpose address block is forwardable beyond a specified administrative domain.

# Restructuring of the IPv4 and IPv6 Special-Purpose Address

Reason for the change:

- There is no clear definition of "Global" in the IPv6 specs.
- RFC 6890 used it to mean "globally reachable/routable".
- An IETF participant, Brian Carpenter, found that the Python ipaddress module interpreted it to mean "globally unique" when writing their "is\_global" function.
- This led to an unexpected behavior when Brian passed that module a Unique Local Address (ULA) and the module returned "False".

## IANA IPv4 Special-Purpose Address Registry Update

- Also included in draft-bchv-rfc6890bis is a correction to the “Reserved-by-Protocol” column for the Limited Broadcast address range (255.255.255.255/32)
- Value should be: TRUE

# Contact Changes for Protocol Parameter Requests

For new protocol parameter requests, more complete contact information is being requested:

- Contact person
- Registrant/Change Controller
- Registration on behalf of personal or company?

Why is this needed?

- Expedite processing time for modifications
- Better record keeping
- IESG has been involved in the evolution of contact information processes

# Questions?

- Send email to [iana@iana.org](mailto:iana@iana.org)
- Come visit the IANA Office Hours desk near registration

Thank you!