

*draft-bchv-rfc6890bis-00.txt*

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# Updating RFC 6890

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# Why Update 6890?

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- ❖ Nebulous definition of "global" has caused implementation issues.
- ❖ Affects the view of Unique Local Addresses (RFC 4193).
- ❖ Pick up errata filed against 6890.

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# No Crisp Definition of *Global*

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- ❖ RFC 4291 says most of the IPv6 address space is reserved for Global Unicast addresses.
- ❖ ULAs are drawn from the global unicast address space.
- ❖ RFC 4193 says:
  - ❖ ULAs are a globally unique prefix
  - ❖ In practice, applications may treat these addresses like global scoped addresses.
- ❖ 6890 says:
  - ❖ Global - 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.
  - ❖ **Global = *False***, Forwardable = *True* for ULAs

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# Errata Points Out Inconsistency

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- ❖ Other address types affected as well...
  - ❖ Erratum 3921 points out related issue with TEREDO's value of *Global*.
- ❖ Primary issue is the subtle difference between globally unique and globally reachable.

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# Proposed Changes in 6890bis

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- ❖ Change column name from *Global* to *Globally Reachable*
  - ❖ Captures the intent of the column
  - ❖ Avoids conflict with ULAs being drawn from global unicast space
- ❖ Mark TEREDO as *Globally Reachable = N/A* and add footnote for more details (matches 6to4)
- ❖ Mark ULAs as *Globally Reachable = False* and add footnote for more details (point to routing discussion in RFC 4193).

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# Next Steps

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- ❖ Need review and discussion on these proposed changes.
- ❖ This draft is clearly of interest to 6man participants, but scope of 6890 spans many areas.
  - ❖ RFC 6890 was AD-sponsored.
- ❖ Will probably ask intarea WG to host discussion.
- ❖ Solicit an INT AD to sponsor.
  
- ❖ Question?