OSPF Stub Router Advertisement
(draft-retana-ospf-rfc3137bis-00)

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What is RFC3137?

• **OSPF Stub Router Advertisement**
  – Category: Informational
  – Publication: June 2001

• Describes a backward-compatible technique that may be used by OSPF to advertise unavailability to forward transit traffic (rfc1247) or to lower the preference level for the paths (rfc1583) through such a router.
  – Solution: the costs of all non-stub links are set to LSInfinity
Update

• Explicitly added support for OSPFv3.
  – Generalized text to avoid OSPFv2-specific references.
  – ...and refreshed references.
Proposed Solution (rfc3137)

...router X announces its router-LSA to the neighbors as follows.

- costs of all non-stub links (links of the types other than 3) are set to LSInfinity (16-bit value 0xFFFF, rather than 24-bit value 0xFFFFFFFF used in summary and AS-external LSAs).

- costs of stub links (type 3) are set to the interface output cost. This addresses issues 1) and 2).

Proposed Solution (rfc3137bis)

...router X announces its router-LSA to the neighbors with the costs of all non-stub links (links of the types other than 3) set to LSInfinity (16-bit value 0xFFFF, rather than 24- bit value 0xFFFFFFFF used in summary and AS-external LSAs).

The solution above applies to both OSPFv2 [RFC2328] and OSPFv3 [RFC5340].
Next Steps

• Adopt this draft as a WG Document
  – Category: Informational
  – Quickly move to update RFC 3137.