RT Constrain Extension for IPv6

draft-keyur-bgp-af-specific-rt-constrain-01

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IETF80  IDR  Mar. 2011  Prague
Problem Statement

- Current RT Constrain mechanism supports prefixes with maximum length of 12 bytes
  - Need to be extended to 24 bytes to support IPv6 RT (20 octets) defined in RFC5701
Solution

• BGP IPv6 Constrained Route Target capability
  – Support exchange of IPv6 RT prefixes

  +-----------------------------------------+
  | origin as (4 octets)                   |
  +-----------------------------------------+
  | route target (8 or 20 octets)          |

• Aggregation Rules of IPv6 RT prefix
  – Only the Local Administrator field of the Route Target can be aggregated
  – Route Target Type and Global Administrator fields MUST not be aggregated
Next Steps

• Collect comments & feedbacks
• WG adoption?