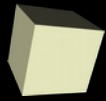# Heads up on BESS-related work-in-progress

Thomas Morin
Martin Vigoureux

Eric Rosen

PMSI Tunnel Attribute flags

- Issue discussed already in Dallas
- WG Document: draft-ietf-bess-pta-flags-00
- Reminder on the issue
  - Only 8 bits in the 'Flags' field of the PMSI Tunnel BGP attribute
  - Use of 6 of these bits is already described in RFCs or drafts
- Summary by Eric Rosen:
  - Not much enthusiasm for any of the schemes discussed at IETF92
  - Latest thinking:
    - Preserve existing uses of PTA flags field
    - Create new opaque Extended Community (and IANA registry) to hold new PTA flags
    - Take one bit from existing flags field to mean "additional flags can be found in the EC"
      - If the "additional flags" bit is not set, ignore/strip new EC
      - If the "additional flags" bit is set but the new EC is not present, then "treat as withdraw"
- Expect follow-up, feel free to comment on this early thinking on the list
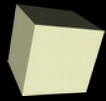
BGP Tunnel Encapsulation

- **draft-rosen-idr-tunnel-encaps**
  - will update of RFC5512 to allow the use of the BGP Tunnel Encapsulation Attribute without the BGP Encapsulation SAFI and, in particular, use it on IP VPN and E-VPN routes
  - specifies important details for encaps such as VXLAN, NVGRE, MPLS-over-GRE, MPLS-over-UDP, VXLAN-GPE
- <u>Tightly related to BESS work</u>
  - How xVPN specs will use these encaps
  - Possible impact on draft-ietf-l3vpn-end-system, draft-ietf-bess-evpn-overlay
  - Seems related to draft-hao-bess-inter-nvo3-*
- <u>Is being called for adoption in IDR working group now</u>
- <u>Deadline has been extended to July 31st to give time for BESS to comment</u>
- <u>Please read and comment on IDR mailing-list !</u>