Generic Transport Functions

• Some IP functions can be considered as generic - independent of IP
  • E.g. Fragmentation and Encapsulating Security Payload (ESP)
• This draft proposes to provide those generic functions outside of IP
  • E.g. for MPLS, BIER, or even Ethernet (if IEEE so desires)
• Generic Fragmentation Example
  • EVPN is a very applicable use case
  • Outer header must identify that next header is Generic Fragmentation Header
    • MPLS label, “Next Header” field, or EtherType
  • Red color indicates difference from IPv6 Fragmentation Header
    • If S-bit is set, context of Identification is embedded in the field itself; otherwise provided by outer header

+------------------------------------------+</br> | Next Header | Hdr Ext Len | Fragment Offset | R|S|M |</br>+------------------------------------------+</br> | Identification |</br>+------------------------------------------+</br> (variable) |