IPv4-IPv6 Multicast Address Conversion

draft-cao-sunset4-mcast-address-conversion

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Motivations

- **Increasing the network security**
  - Limited by `Ruled_IPv4_M_Prefix`

- **Differentiating the IPv6 network using different IPv6 multicast prefix**
  - By defining different `Ruled_IPv6_M_Prefix`

- **Not limited the IPv6 multicast prefix to /96**
  - By flexible configuring `Ruled_IPv4_Offset` & `Ruled_IPv4_Type`
Scope & Context

- Defines the rule for stateless conversion of IPv4-IPv6 multicast address

- Rule includes following parameters:
  - Rule_IPv6_M_Prefix/Length (mandatory)
  - Rule_IPv4_M_Prefix/Length (optional)
  - Rule_IPv4_Offset (optional)
  - Rule_IPv4_Type (optional)

- This mechanism can be used in various contexts
  - IPv4-initiated communication
  - IPv6-initiated communication
  - IPv4-IPv6 translation or encapsulation
Summary

- More flexible than constant format

- Need some companion documents
  - DHCP extension
  - RADIUS extension

- All comments are welcome!
Next Step

• Adopt the document as a WG item?