

IPv4-IPv6 Multicast Address Conversion

draft-caosun4-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?