

draft-Irssi-bess-evpn-group-policy- 01.txt

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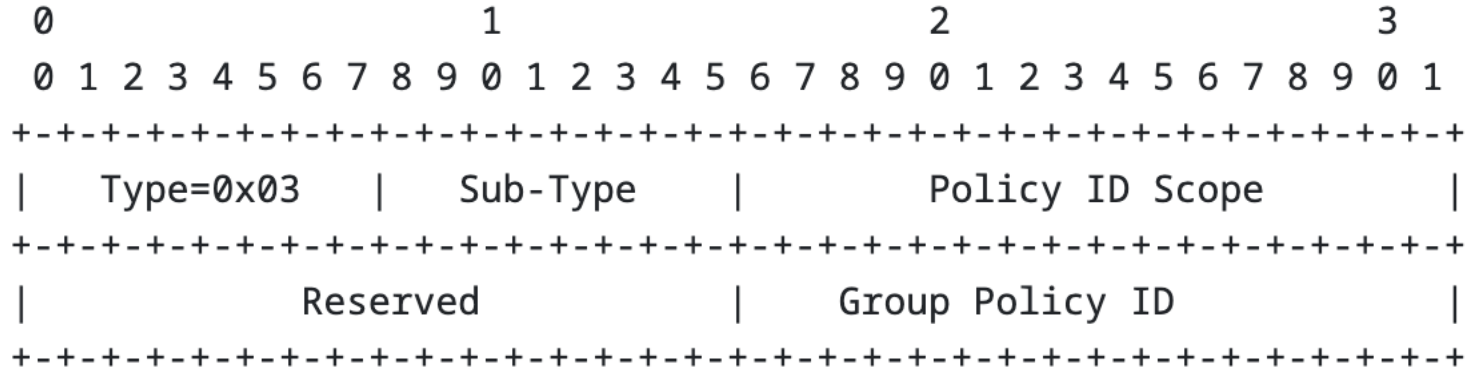
History

- Rev00 was presented at IETF 119 in March 2024
- This IETF is a merge of the following two drafts because of their synergy
 1. draft-smith-vxlan-group-policy-05.txt
 2. draft-wlin-bess-group-policy-id-extended-community
- (1) talks about VxLAN header extension for group policy (i.e., data-plane extension)
- (2) talks about EVPN extension for group policy (i.e., control-plane extension)
- Both drafts have been implemented by multiple vendors and have been around for several years!

Primer: VxLAN Header Extension – Cont.

- A Bit: Bit 12 of the initial word is defined as the A (Policy Applied) bit. This bit is only defined as the A bit when the G bit is set to 1
 - A = 1 indicates that the group policy has already been applied to this packet. Policies MUST NOT be applied by devices when the A bit is set.
 - A = 0 indicates that the group policy has not been applied to this packet. Group policies MUST be applied by devices when the A bit is set to 0 and the destination Group has been determined. Devices that apply the Group policy MUST set the A bit to 1 after the policy has been applied.
- Group Policy ID: 16 bit identifier that indicates the source TSI Group membership being encapsulated by VXLAN. The allocation of Group Policy ID values is outside the scope of this document.

Primer: EVPN Extension (control-plane extension)



- **Policy ID Scope: The Policy ID Scope field is 16-bit long and is an optional field.**
- **Group Policy ID (GPI): The GPI field is 16-bit long and it encodes the value of a Group Policy ID.**

Issues

- RFC 7348 (VxLAN) has no IANA section for code point assignments of VxLAN header
- RFC 7348 was published as Independent Submission stream (and not as an IETF Document stream per section 5.1.1 of RFC 8729)
- Therefore, any extensions to VxLAN header is problematic because of the above two issues

Recommendations

- To republish RFC 7348 as is but with just an addition of IANA section for codepoint assignments of VxLAN header already in this RFC
 - Published draft-dutt-nvo3-rfc7348bis-00.txt
- To capture additional codepoints in VxLAN header for group policy draft in the IANA section of that draft
 - Published draft-lrssi-bess-evpn-group-policy-01.txt with IANA codepoints

Next Steps

- Requesting WG call for draft-dutt-nvo3-rfc7348bis-00.txt immediately.
 - Per IETF trustees' recommendation no changes should be made to this draft except IANA section for VxLAN header codepoint assignments because this is ONLY a republication of existing RFC7348 as an IETF Document stream
- Requesting WG call for draft-lrssi-bess-evpn-group-policy-01.txt
 - The contents of this draft has been around for many years, and have been implemented by multiple vendors

Thank You!

- Special thanks to our chair Matthew Bocci and our Routing AD Gunter Van de Velde for their guidance and their helpful suggestions