

draft-lemon-vxlan-gpe-gbp

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Desired Use of VXLAN-GPE

- Using what is already defined by draft:
 - Carrying multiple simultaneous protocols
- Add the following next protocol to the draft:
 - Carrying group-based policy (GBP)

Example Usage

```

0           1           2           3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-----+-----+-----+-----+
|           Outer Ethernet Header           |
+-----+-----+-----+-----+
|           Outer IP Header           |
+-----+-----+-----+-----+
|           Outer UDP Header           |
+-----+-----+-----+-----+
|R|R|Ver|I|P|R|0|       Reserved       | NP = GBP |
+-----+-----+-----+-----+-----+-----+-----+-----+
GPE
|     Virtual Network Identifier (VNI)     | Reserved   |
+-----+-----+-----+-----+-----+-----+-----+-----+
|     Group Policy ID          | Res |E|A|D|Ver| Next Protocol |
GBP
+-----+-----+-----+-----+-----+-----+-----+-----+
|           Next Protocol           |
+-----+-----+-----+-----+

```

Different from draft-smith-vxlan-group-policy

- draft-smith-vxlan-group-policy extends VXLAN to carry just GBP
- draft-lemon-vxlan-gpe-gbp extends VXLAN-GPE to carry GBP
 - Simultaneously with IOAM and/or other protocols

Status of I-Ds

- draft-lemon-vxlan-gpe-gbp-00
 - Initial proposal
 - Reviewed so far by only co-authors
- draft-ietf-nvo3-vxlan-gpe-05
 - Contains code point for GBP, based on this proposal
- draft-smith-vxlan-group-policy-04
 - Serves as reference for GBP concepts

Request

- Provide comments on current draft
- Support IANA code point request in [draft-ietf-nvo3-vxlan-gpe-05](#)
- WG adoption of [draft-lemon-vxlan-gpe-gbp](#)