Flex Algorithm for BIER

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Flex Algo for BIER

- BIER (RFC8279) defines new replication mechanism.
- There are use cases where deployment expect to steer traffic across network through per determined path using Flex Algo
- How do we communicate this in BIER Domain?
- This Informational draft provides framework to use Flex algo for BIER forwarding.
Sub-domain per slice (Algorithm)

- Assign Different sub-domain for different algorithm
- Use procedure from draft-ietf-bier-bar-ipa-06 advertise information in BEIR domain

Algo “x” Green – High Bandwidth
Algo “y” Red – Best Effort
Label per algorithm (MPLS data plane)

- Assign different label for each algorithm type
- Information is distributed using IGP extension
- Ingress Router uses Label based on which slice this traffic belongs to

<table>
<thead>
<tr>
<th>Bit</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L1 - Green</td>
</tr>
<tr>
<td></td>
<td>L2 - Red</td>
</tr>
</tbody>
</table>
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• WG feedback on procedures.
• Ongoing work, current version was only to state the problem statement.