IS-IS Extension for Big TLV

draft-chen-lsr-isis-big-tlv-00

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Introduction

• IS-IS Extension for big TLV
• Split and Glue
• Incremental Deployment
IS-IS Extension for big TLV (1/2)

Container TLV

<table>
<thead>
<tr>
<th>Type (TBD)</th>
<th>Length</th>
<th>Value of big TLV of type TBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type (T)</td>
<td>Resv</td>
<td>Container TLV</td>
</tr>
<tr>
<td>0 1 2 3 4 5</td>
<td>6 7 8 9</td>
<td>0 1 2 3 4 5</td>
</tr>
</tbody>
</table>

Format of Container TLV

- **Type (TBD):** The type of the Container TLV.
- **Length:** The length of the Value field of the Container TLV.
- **Value:** Type (T) field + a Piece of value of big TLV of type T.
IS-IS Extension for big TLV (2/2)

Big TLV of type T with value > 255 octets

• Piece 0
• Piece 1
...
• Piece n

Encoding value > 255 octets

• Piece 0 in normal TLV of type T
• Piece 1 in Container TLV 1
...
• Piece n in Container TLV n
Split and Glue: Without Key

- One big TLV of type T
- Multiple (big) TLVs of type T and TLVs for each are in order without interleave
Split and Glue: With Key

No order requirement
Incremental Deployment

- Deploy it step by step
- Piece 0 in normal TLV backward compatible
- Piece 0 must be understood by all
Next Steps

- Welcome comments