IPv6 Deployment Status
draft-v6ops-ipv6-deployment-05

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Draft History

• Submitted as an individual draft -00 in October 2020
  – Version -01 presented at IETF 109
• In early April 2021 adopted as WG document
  – WG version -00 submitted in April 2021
• Version -02 presented and discussed at IETF 111
• Since then, 3 revisions:
  – Version -03 submitted after IETF 111 to address the comments received
  – Version -04 updated the analytics and did an editorial review after IETF 112
  – Version -05 fixed some remaining comments. Submitted beginning of March
• Thanks to the people who shared comments on the list (Bob Harold, Gabor Lencse, Cong Li, Gyan Mishra, Jordi Palet) and those who discussed offline.
Updates on the Draft

• The draft structure is stable since version -02
  – No new topics added since then
• The edits / changes in versions -04 and -05 were made:
  – To update the IPv6 analytics
  – To avoid the ambiguity of certain terms (i.e. “transition to IPv6” instead of “migration to IPv6”)
  – To expand the base text (e.g. “better describe the behavior of HE” or “add a reference to softwire”).

• The sections touched by the changes introduced in versions -04 and -05 are highlighted in the next slide.
<table>
<thead>
<tr>
<th>Section</th>
<th>Vers.</th>
<th>Title</th>
<th>Changes</th>
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<tbody>
<tr>
<td>2.2</td>
<td>-04</td>
<td>IPv6 Users</td>
<td>Updated analytics</td>
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<td>2.3</td>
<td>-04</td>
<td>IPv6 Web Content</td>
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<td>3.3</td>
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<td>IPv6 among Enterprises</td>
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<td>3.3.1</td>
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<td>3.6.</td>
<td>-05</td>
<td>Application Transition</td>
<td>Expanded text on HE behavior</td>
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<tr>
<td>4.</td>
<td>-05</td>
<td>Towards an IPv6 Overlay Service Design</td>
<td>Clarified that “IPv6 Introduction” and “IPv6-only Service Delivery” are not necessarily phases in time. An operator may choose to directly go to IPv6-only</td>
</tr>
<tr>
<td>4.1.</td>
<td>-05</td>
<td>IPv6 Introduction</td>
<td>Removed ambiguity on the “advantages” of Dual-Stack</td>
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<tr>
<td>4.2.</td>
<td>-05</td>
<td>IPv6-only Service Delivery</td>
<td>Corrected a sentence about usage of IPv4 addresses by transition mechanisms</td>
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<td>5.</td>
<td>-04</td>
<td>IPv6-only Underlay Network Deployment</td>
<td>Added references on Softwire Mesh Framework [RFC5565] and draft-ietf-bess-ipv6-only-pe-design</td>
</tr>
<tr>
<td>7.3</td>
<td>-04</td>
<td>Network Management and Operations</td>
<td>Reviewed text</td>
</tr>
<tr>
<td>7.4.1.</td>
<td>-05</td>
<td>IPv6 Packet Loss and Latency</td>
<td>Removed imprecisions in the use of terms such as “failure rate”, “packet loss”</td>
</tr>
</tbody>
</table>
Next Steps

• The authors believe the draft can move to WG last call

• Comments and feedback welcome

Thank you!