

Best Current Operational Practice for operators: IPv6 prefix delegation for end-users - static or dynamic and size to choose.

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The content of this BCOP document is agreed also by following operators:

For editing/reviewing purposes only:

Important - let's keep this document short and sweet, around 7 to 8 pages long.

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From now on, whoever adds anything or changes anything, please color that text with your color so we can spot the changes/adds.

Table of content:

1. Size of end-user prefix delegation: /48, /56 or something else?

1.1. Numbering the connection link between our network and end-user CPE:

1.1.1. /64 prefix out of end-user's IPv6 prefix delegation

1.1.2. /64 prefix out of dedicated pool of addresses for interconnection links

1.1.3. Unnumbered

1.2. Prefix delegation options:

1.2.1. /48 for business customers and /56 for residential customers

1.2.2. /48 for everybody

1.2.3. Less than /56

2. End-user prefix assignment: Static or dynamic.

2.1. Why dynamic is easier than static IPv6 prefix assignments.

2.2. Why dynamic prefix assignments are considered harmful.

2.3. Why static prefix assignments are recommended.

3. Why is important to choose the sizes and a way of delegating the IPv6 prefix to our customers wisely

Process

- Document resides and is edited/written on Google Documents platform
- We need:
 - Operators with practical experience to co-author
 - Operators with practical experience to read it, comment and at the end put their name on it under “agreed by” section, of course if they agree with the content.
 - Help from RIPE IPv6 WG to check the technical validity of the content

Questions/comments/volunteers?

- R/O URL: <http://tinyurl.com/ipv6-pd-bcop>
- Do people think this could be an useful document?
- Discussion!!!

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