



Policy Implementation Experience Report (PIER)

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Purpose of PIER

Provide feedback to members and community on:

- The experiences and challenges encountered by the Hostmasters while processing requests under the currently implemented policies.
- Identify ambiguities and areas requiring clarification within the Consolidated Policy Manual.



Hostmasters' Experience

CPM 5.6.4 PI Assignments to Critical Infrastructure

- **5.6.4.1** AFRINIC will make End-User assignment to critical infrastructure providers of the Internet such as public internet exchange points and core DNS service providers.
- **5.6.4.4 Definitions**
 - 5.6.4.4.1 Exchange Point:**
 - 5.6.4.4.2 Core DNS service provider:**



Hostmasters' Experience

CPM 5.6.4 PI Assignments to Critical Infrastructure

➤ 5.6.4.4 Definitions:

5.6.4.4.1 Exchange Point:

“An Internet Exchange Point is defined as a physical network infrastructure (layer 2) operated by a single entity whose purpose is to facilitate the exchange of Internet traffic between ISPs. There must be a minimum of three ISPs connected and there must be a clear and open policy for others to join. Addresses needed for other purposes (e.g. additional services provided to the members) should be acquired through the appropriate means (e.g. an upstream ISP).”



Hostmasters' Experience

CPM 11.0 Resource Reservation for Internet Exchange

- “...this policy proposes that AFRINIC reserve IPv4 addresses for IXP peering LANs out of an address block marked particularly, and exclusively, for IXP peering LAN use.”
- IPv4 /16's reserved for IXP Peering and Management respectively.
- Eligibility deemed by meeting the definition in **5.6.4.4.1 Exchange Point** and applicable conditions of Section 11.
- ❖ Is the definition and the conditions of Section 11 aligned to modern IXP models?



Hostmasters' Experience

CPM 5.6.4 PI Assignments to Critical Infrastructure

➤ 11.4 Policy Detail

*“The Peering LAN assignments for each IXP should ensure that the adjacent /24 IP block is reserved (based on the minimum end-user assignment policy size of /24) to support the future growth of the IXP. This will enable **an IXP to increase its peering LAN resources to /23** without having to renumber to a new contiguous IP block allocation”*

- ❖ IXPs are growing beyond a /23, requiring peering prefix renumbering.
- ❖ Does the text require updating to accommodate the IXP peer growth



Hostmasters' Experience

CPM 11.0 Resource Reservation for Internet Exchange

- ❑ Resource Cross-utilisation
 - “...this policy proposes that AFRINIC reserve IPv4 addresses for IXP peering LANs out of an address block marked particularly, and exclusively, for IXP peering LAN use.”
 - “Assignments for IXP management addresses should NOT be provided from the same block as the IXP peering LANs. ”
- ❖ Hostmasters' Action: Get the member to align with the policy



Hostmasters' Experience

CPM 5.6.4 PI Assignments to Critical Infrastructure

➤ 5.6.4.4 Definitions:

5.6.4.4.2 Core DNS service provider:

“A core DNS service provider is a company who provides DNS service for the root level of the DNS tree (ICANN-sanctioned root operators).”

- Fees: 5.2 Critical Infrastructure -100% discount to organisations requesting resources for the purpose of Critical infrastructure.
- There is now the **ICANN Managed Root Server (IMRS)** using pre-defined L-Root IP number resources.
- Hosting organisation is required to support the IMRS global routability



Hostmasters' Experience

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- Hostmaster finds that these resources do not meet the criteria for the discount.



Thank You For Your Support and Attention.

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