Deprecation of "ip6.int"

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Abstract

This document advises of the deprecation of the use of "ip6.int" for Standards Conformant IPv6 implementations.

Draft Notes

[This section not for RFC publication]

This memo has been prepared as part of the activities of an ad hoc advisory committee to advise the IAB on a number of matters relating to IPv6. It is proposed that the note be published as an Internet Standards action for IPv6 as a BCP.

Comments on this draft should be sent to either the author, or to the document's editing group. This group can be reached at the mail address "draft-huston-ip6-int@potaroo.net".

This advice does not directly address legacy issues concerning continued support

for "ip6.int", beyond a request to the RIRs to prepare a schedule relating to their phase-out of ip6.int support as part of registry services. In considering the orderly phase out of ip6.int it is noted that there appears to be, at present, some level of continued use of the "ip6.int" domain by earlier IPv6 implementations.

Some exploratory activity has been noted, proposing the use of DNAME records in "ip6.int" using a redirection pointer to the relevant delegation points in the "ip6.arpa" domain. There are some associated issues with the use of base relative names in reverse domains to allow the DNAME to work, and there may also be a need for some investigatory activity relating to the soundness of the use of DNAME redirection in this context. However, this activity falls more into an operational task regarding legacy management, and no particular advice regarding IAB actions is offered here.

1. IPv6 Standards Action

In August 2001 the IETF published RFC 3152 [1], which advised that the use of "ip6.int" as the domain for reverse-mapping of IPv6 addresses to DNS names was to be deprecated. The document noted that the use of "ip6.int" would be phased out in an orderly fashion.

With the publication of this memo, the IETF advises the community that the DNS domain "ip6.int" should no longer be used to perform reverse mapping of IPv6 addresses to domain names, and that the domain "ip6.arpa" should be used henceforth, in accordance with the IANA Considerations described in RFC 3596 [2]. The domain "ip6.int" is deprecated, and its use as part of Internet Standards conformance of IPv6 implementations is discontinued.

The Regional Internet Registries (RIRs) are advised that maintenance of delegation of entries in "ip6.int" is no longer required as part of infrastructure services in support of Internet Standards conformant IPv6 implementations. The RIRs are requested to work with their communities to adopt a schedule regarding cessation of support of registration services for the "ip6.int" domain.

2. IANA Considerations

IANA is advised that the "ip6.int" domain for reverse mapping of IPv6 addresses to domain names is no longer part of Internet Standards Conformant support of IPv6.

3. Security Considerations

While DNS spoofing of address to name mapping has been exploited in IPv4, removal of the "ip6.int" zone creates no new threats to the security of the internet.

4. Acknowledgements

The document was prepared with the assistance of Kurt Lindqvist, Thomas

Narten, Paul Wilson, David Kessens, Bob Hinden and Brian Haberman.

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5 Normative References

[1] Bush, R., "**Delegation of IP6.ARPA**", BCP 49, RFC 3152, August 2001.

[2] Thomson, S., Huitema, C., Ksinant, V. and M. Souissi, "**DNS Extensions to Support IP Version 6**", RFC 3596, October 2003.

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