

Network Working Group
Request for Comments: 3681
BCP: 80
Category: Best Current Practice

R. Bush
IIJ
R. Fink
January 2004

Delegation of E.F.F.3.IP6.ARPA

Status of this Memo

This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements. Distribution of this memo is unlimited.

Copyright Notice

Copyright (C) The Internet Society (2004). All Rights Reserved.

Abstract

This document discusses the need for delegation of the E.F.F.3.IP6.ARPA DNS zone in order to enable reverse lookups for 6bone addresses, and makes specific recommendations for the process needed to accomplish this.

1. 6bone and DNS

The 6bone, whose address space was allocated by [RFC2471], has provided a network for IPv6 experimentation for numerous purposes for seven years. Up to the present time, reverse lookups for 6bone addresses have been accomplished through IP6.INT. It is now important that the thousands of 6bone users be able to update their IPv6 software to use IP6.ARPA [RFC3152].

Although the 6bone has a limited life, as a phaseout plan is being discussed at the IETF at this time [I-D.fink-6bone-phaseout], there is likely to be 2.5 to 3.5 more years of operation. During this remaining 6bone lifetime IP6.ARPA reverse lookup services for the 3ffe::/16 address space are required.

Discussions have been underway between the 6bone and RIR communities, about having the RIRs perform this service. It was agreed at the San Francisco IETF meeting in March 2003 that it was more practical for the 6bone to provide this service for itself. This would relieve the RIRs of the costs of providing this service, yet still provide the IP6.ARPA authority the ability to terminate the service when the planned 6bone termination date is reached (currently anticipated to be June 6, 2006).

The current planning within the 6bone operational community is to provide new inet6num attributes in the 6bone registry database for top level 6bone address space holders to request delegation to their reverse path servers.

2. IANA Considerations

This memo requests that the IANA delegate the E.F.F.3.IP6.ARPA domain to the 6bone, as will be described in instructions to be provided by the IAB. Names within this zone are to be further delegated within the top level 6bone ISPs (known as pTLAs) in accordance with the delegation of 6bone 3FFE::/16 address space.

3. Security Considerations

While DNS spoofing of address to name mapping has been exploited in IPv4, delegation of the E.F.F.3.IP6.ARPA zone creates no new threats to the security of the internet.

4. References

4.1. Normative References

[RFC2471] Hinden, R., Fink, R. and J. Postel, "IPv6 Testing Address Allocation", RFC 2471, December 1998.

4.2. Informative References

[I-D.fink-6bone-phaseout] Fink, R. and R. Hinden, "6bone (IPv6 Testing Address Allocation) Phaseout", Work in Progress.

[RFC3152] Bush, R., "Delegation of IP6.ARPA", BCP 49, RFC 3152, August 2001.

5. Intellectual Property Statement

The IETF takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on the IETF's procedures with respect to rights in standards-track and standards-related documentation can be found in BCP-11. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementors or users of this specification can be obtained from the IETF Secretariat.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights which may cover technology that may be required to practice this standard. Please address the information to the IETF Executive Director.

6. Authors' Addresses

Randy Bush
IIJ
5147 Crystal Springs
Bainbrisse Island, WA 98110
US

Phone: +1 206 780 0431
EMail: randy@psg.com
URI: <http://psg.com/~randy/>

Robert Fink
Truckee, CA
US

EMail: bob@thefinks.com

7. Full Copyright Statement

Copyright (C) The Internet Society (2004). All Rights Reserved.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by the Internet Society or its successors or assignees.

This document and the information contained herein is provided on an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Acknowledgement

Funding for the RFC Editor function is currently provided by the Internet Society.

