

INTERNET-DRAFT
TLDS
1999
1999

Reserved
February
Expires August

Reserved Top Level DNS Names

Donald E. Eastlake 3rd
Aliza R. Panitz

Status of This Document

This draft is file name [draft-ietf-dnsind-test-tlds-13.txt](#). Distribution of this document is unlimited. Comments should be sent to the DNS mailing list <namedroppers@internic.net> or to the authors.

This document is an Internet-Draft and is in full conformance with all provisions of [Section 10 of RFC2026](#). Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months. Internet-Drafts may be updated, replaced, or obsoleted by other documents at any time. It is not appropriate to use Internet-Drafts as reference material or to cite them other than as a ``working draft'' or ``work in progress.''

To view the entire list of current Internet-Drafts, please check the "lid-abstracts.txt" listing contained in the Internet-Drafts Shadow Directories on ftp.is.co.za (Africa), ftp.nordu.net (Northern Europe), ftp.nis.garr.it (Southern Europe), munnari.oz.au (Pacific Rim), ftp.ietf.org (US East Coast), or ftp.isi.edu (US West Coast).

Abstract

To reduce the likelihood of conflict and confusion, a few top level domain names are reserved for use in private testing, as examples in documentation, and the like. In addition, a few second level domain names reserved for use as examples are documented.

Table of Contents

Status of This Document.....	1
Abstract.....	2
Table of Contents.....	2
1 . Introduction.....	3
2 . TLDs for Testing, & Documentation Examples.....	3
3 . Reserved Example Second Level Domain Names.....	4
4 . IANA Considerations.....	4
5 . Security Considerations.....	4
References.....	5
Authors Addresses.....	5
Expiration and File Name.....	5

1. Introduction

The global Internet Domain Name System is documented in [RFC 1034, 1035, 1591] and numerous additional Requests for Comment. It defines

a tree of names starting with root, ".", immediately below which are top level domain names such as ".com" and ".us". Below top level domain names there are normally additional levels of names.

2. TLDS for Testing, & Documentation Examples

There is a need for top level domain (TLD) names that can be used for

creating names which, without fear of conflicts with current or future actual TLD names in the global DNS, can be used for private testing of existing DNS related code, examples in documentation, DNS related experimentation, invalid DNS names, or other similar uses.

For example, without guidance, a site might set up some local additional unused top level domains for testing of its local DNS code

and configuration. Later, these TLDS might come into actual use on the global Internet. As a result, local attempts to reference the real data in these zones could be thwarted by the local test versions. Or test or example code might be written that accesses a TLD that is in use with the thought that the test code would only be run in a restricted testbed net or the example never actually run. Later, the test code could escape from the testbed or the example be actually coded and run on the Internet. Depending on the nature of the test or example, it might be best for it to be referencing a TLD permanently reserved for such purposes.

To safely satisfy these needs, four domain names are reserved as listed and described below.

```
.test  
.example  
.invalid  
.localhost
```

".test" is recommended for use in testing of current or new DNS related code.

".example" is recommended for use in documentation or as examples.

".invalid" is intended for use in online construction of domain names that are sure to be invalid and which it is obvious at a glance are invalid.

The ".localhost" TLD has traditionally been statically defined

D. Eastlake, A. Panitz
3]

[Page

in host DNS implementations as having an A record pointing to the loop back IP address and is reserved for such use. Any other use would conflict with widely deployed code which assumes this use.

3. Reserved Example Second Level Domain Names

The Internet Assigned Numbers Authority (IANA) also currently has the following second level domain names reserved which can be used as examples.

```
example.com
example.net
example.org
```

4. IANA Considerations

IANA has agreed to the four top level domain name reservations specified in this document and will reserve them for the uses indicated.

5. Security Considerations

Confusion and conflict can be caused by the use of a current or future top level domain name in experimentation or testing, as an example in documentation, to indicate invalid names, or as a synonym for the loop back address. Test and experimental software can escape

and end up being run against the global operational DNS. Even examples used "only" in documentation can end up being coded and released or cause conflicts due to later real use and the possible acquisition of intellectual property rights in such "example" names.

The reservation of several top level domain names for these purposes will minimize such confusion and conflict.

References

[RFC 1034](#) - P. Mockapetris, "Domain names - concepts and facilities", 11/01/1987.

[RFC 1035](#) - P. Mockapetris, "Domain names - implementation and specification", 11/01/1987.

[RFC 1591](#) - J. Postel, "Domain Name System Structure and Delegation", 03/03/1994.

Authors Addresses

Donald E. Eastlake 3rd
IBM
65 Shindegan Hill Road, RR #1
Carmel, NY 10512

Telephone: +1 914-276-1668(h)
 +1 914-784-7913(w)
FAX: +1 914-784-3833(3)
email: dee3@us.ibm.com

Aliza R. Panitz
500 Stamford Dr. No. 310
Newark, DE 19711 USA

Telephone: +1 302-738-1554
email: buglady@fuschia.net

Expiration and File Name

This draft expires August 1999.

Its file name is [draft-ietf-dnsind-test-tlds-13.txt](#).

