

DNSOP  
Internet-Draft  
Updates: 6603, 6890 (if approved)  
Intended status: Best Current Practice  
Expires: 3 September 2026

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2 March 2026

Updates to Locally Served DNS Zones and IP Special-Purpose Address Space  
Registries  
draft-dnsop-rfc6303-bis-01

Abstract

RFC 6063, "Locally Served DNS Zones", defines two IANA registries called "IPv4 Locally-Served DNS Zone" and "IPv6 Locally-Served DNS Zone" registries. This document changes the registration policy for that registry from "IETF Review" to "Expert Review".

Also, this document updates IP Special-Purpose Address Space registries to indicate whether an IP address block is eligible to be in Locally-Served DNS Zones. Eligible entries will be automatically added to the Locally-Served DNS Zones.

This document updates RFC 6063 and RFC 6890.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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## 1. Introduction

[RFC6303] "Locally Served DNS Zones", it defines two IANA registries called "IPv4 Locally-Served DNS Zone" and "IPv6 Locally-Served DNS Zone" registries. This document changes the registration policy for that registry from "IETF Review" to "Expert Review".

Also, this document updates IP Special-Purpose Address Space registries `{!RFC6890}` to indicate whether an IP address block is eligible to be in Locally-Served DNS Zones. This change is meant to ensure consistent registrations between the above registries and future failures to make appropriate registrations in "IPv6 Locally-Served DNS Zone" such as in `{!RFC9637}`.

PLEASE REMOVE THE FOLLOWING PARAGRAPH BEFORE PUBLISHING: The source for this draft is maintained on GitHub at:  
<https://github.com/moonshiner/draft-dnsop-rfc6303-bis>  
(<https://github.com/moonshiner/draft-dnsop-rfc6303-bis>)

## 2. Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here. DNS terminology is as described in [RFC8499].

## 3. Updates to RFC 6063

Please update {{Section 8 of @!RFC6303}} "IANA Considerations" as follows:

OLD:

{:quote}

| This registry can be amended through "IETF Review" as per  
| {{?RFC5226}}. As part of this review process, it should be noted  
| that once a zone is added it is effectively added permanently;  
| once an address range starts being configured as a local zone in  
| systems on the Internet, it will be impossible to reverse those  
| changes.

NEW:

{:quote}

| This registry can be amended through "Expert Review" policy  
| ({{Section 4.5 of !RFC8126}}). As part of this review process, it  
| should be noted that once a zone is added it is effectively added  
| permanently; once an address range starts being configured as a  
| local zone in systems on the Internet, it will be impossible to  
| reverse those changes. More guidance for Designated Experts is  
| provided in {{guidance}} of THIS\_DOCUMENT.

### 3.1. Guidance for Designated Experts

In changing the approval to "Expert Review", there should be some additional guidance. Here are some examples (not all mandatory) on what the Reviewer should look for:

1. Should have at least an internet-draft written which can explain the usage.

2. The various Working Groups in the IETF should have

### 3.2. Changes to the IPv6 Locally-Served DNS Zones Registry

IANA is requested to add the zones listed below to the "IPv6 Locally-Served DNS Zone" registry:

TBC with `{!RFC9637}` entries.

## 4. Changes to the IP Special-Purpose Space Registries

### 4.1. Eligible to Locally-Served DNS Zones New Column

IANA is requested to add a new column, Eligible to Locally-Served DNS Zones, to the "IPv6 Special-Purpose Address Space" and "IPv4 Special-Purpose Address Space" registries.

### 4.2. Eligible to Locally-Served DNS Zones Note

IANA is requested to add the following note to the "IPv6 Special-Purpose Address Space" and "IPv4 Special-Purpose Address Space" registries:

Eligible to Locally-Served DNS Zones: A boolean value indicating whether the IP address block is to be added to the Locally-Served DNS Zones IANA registry.

### 4.3. IPv6 Locally-Served DNS Zone Registry Note

IANA is requested to add the following note to the "IPv6 Special-Purpose Address Space" registry:

Note: IANA has to add relevant entries for "Eligible to Locally-Served DNS Zones" set to "True" in the IPv6 Locally-Served DNS Zone Registry.

### 4.4. IPv4 Locally-Served DNS Zone Registry Note

IANA is requested to add the following note to the "IPv4 Special-Purpose Address Space" registry:

Note: IANA has to add relevant entries for "Eligible to Locally-Served DNS Zones" set to "True" in the IPv4 Locally-Served DNS Zone Registry.

#### 4.5. Initial IPv6 Locally-Served DNS Zone Registry

TBC.

#### 4.6. Initial IPv4 Locally-Served DNS Zone Registry

TBC.

#### 5. Operational Considerations

TBC.

#### 6. Security Considerations

This document does not add new security risks other than those already discussed in {{RFC6303}}, {{!RFC6890}}, and {{!RFC9637}}.

#### 7. IANA Considerations

Sections 6063-updates and 6890-updates include actions for IANA. These actions are not repeated here.

#### 8. References

##### 8.1. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.

[RFC6303] Andrews, M., "Locally Served DNS Zones", BCP 163, RFC 6303, DOI 10.17487/RFC6303, July 2011, <<https://www.rfc-editor.org/info/rfc6303>>.

##### 8.2. Informative References

[RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174, May 2017, <<https://www.rfc-editor.org/info/rfc8174>>.

[RFC8499] Hoffman, P., Sullivan, A., and K. Fujiwara, "DNS Terminology", RFC 8499, DOI 10.17487/RFC8499, January 2019, <<https://www.rfc-editor.org/info/rfc8499>>.

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