

DNSOP  
Internet-Draft  
Intended status: Standards Track  
Expires: 3 November 2025

S.W.J. Ubbink  
SIDN  
2 May 2025

DNS Zone Version (ZONEVERSION) Extended  
draft-ubbink-zoneversion-extended-00

## Abstract

The DNS Zone Version (ZONEVERSION) extended is a way to get information about the version of a DNS in the backend. For example when a DNSSEC signer for a zone generates a new SOA serial, because it has created new RRSIG records, the original data has not changed, but this is not visible to anyone looking at the zone. This document will make it possible show the zone information which is the base of the presented data.

## Status of This Memo

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

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF). Note that other groups may also distribute working documents as Internet-Drafts. The list of current Internet-Drafts is at <https://datatracker.ietf.org/drafts/current/>.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

This Internet-Draft will expire on 3 November 2025.

## Copyright Notice

Copyright (c) 2025 IETF Trust and the persons identified as the document authors. All rights reserved.

This document is subject to BCP 78 and the IETF Trust's Legal Provisions Relating to IETF Documents (<https://trustee.ietf.org/license-info>) in effect on the date of publication of this document. Please review these documents carefully, as they describe your rights and restrictions with respect to this document. Code Components extracted from this document must include Revised BSD License text as described in Section 4.e of the Trust Legal Provisions and are provided without warranty as described in the Revised BSD License.

## Table of Contents

1. Discussion Venues . . . . .	2
2. Introduction . . . . .	2
3. Terminology and Definitions . . . . .	2
4. Relation to the ZONEVERSION option . . . . .	3
5. The backend serial in the zone . . . . .	3
6. The backend serial ZONEVERSION type . . . . .	3
7. Security and Privacy Considerations . . . . .	3
8. IANA Considerations . . . . .	3
9. Acknowledgements . . . . .	3
10. Normative References . . . . .	3
Author's Address . . . . .	4

## 1. Discussion Venues

This note is to be removed before publishing as an RFC.

Source for this draft and an issue tracker can be found at  
<https://github.com/SIDN/ietf-zoneversion-extended.git>  
(<https://github.com/SIDN/ietf-zoneversion-extended.git>) .

## 2. Introduction

The DNS Zone Version (ZONEVERSION [RFC9660]) extended is a way to get information about the version of a DNS in the backend. For example when a DNSSEC signer for a zone generates a new SOA serial, because it has created new RRSIG records, the original data has not changed, but this is not visible to anyone looking at the zone. This document will make it possible show the zone information which is the base of the presented data.

## 3. Terminology and Definitions

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.

#### 4. Relation to the ZONEVERSION option

This document extends the original DNS Zone version Option [!@RFC9660] to include an extra ZONEVERSION type.

#### 5. The backend serial in the zone

To make the backend serial available in the ZONEVERSION, it must be available in the zone itself. Because creating an out of band solution would be too much work. This document defines a label where the backend serial will be available to be used in the ZONEVERSION.

The backend serial will be published in a `_version` label under the zone apex.

For example:

```
_version.example.nl IN TXT "2025101099"
```

There MUST only be one `_version` label.

#### 6. The backend serial ZONEVERSION type

This document defines a new ZONEVERSION option TYPE, which can be constructed from a label in the zone.

The mnemonic for this type is "BACKEND-SERIAL".

The VERSION value for the BACKEND-SERIAL type MUST be a copy of the `_version` label in the zone.

#### 7. Security and Privacy Considerations

Do a risk assessment if publishing the backend serial is a security issue before publishing it.

#### 8. IANA Considerations

This document has no IANA actions

#### 9. Acknowledgements

Many thanks to original authors of [RFC9660](the ZONEVERSION document).

#### 10. 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>>.
- [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>>.
- [RFC9660] Salgado, H., Vergara, M., and D. Wessels, "The DNS Zone Version (ZONEVERSION) Option", RFC 9660, DOI 10.17487/RFC9660, October 2024, <<https://www.rfc-editor.org/info/rfc9660>>.

## Author's Address

Stefan Ubbink  
SIDN  
Email: [stefan.ubbink@sidn.nl](mailto:stefan.ubbink@sidn.nl)