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Extra Extended DNS Error codes for DNSSEC status bogus
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Abstract

While implementing Extended DNS Errors ([RFC8914](https://tools.ietf.org/html/rfc8914)) in our DNSSEC validating resolver software Unbound, we encountered this specific situations regarding the DNSSEC bogus status where no Extended DNS Error were yet defined. This draft serves as a reference for code points requests.

Status of This Memo

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Internet-Draft

Extra DNSSEC EDE codes

February 2022

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[1.](#) Introduction

While implementing Extended DNS Errors ([\[RFC8914\]](#)) in our DNSSEC validating resolver software Unbound ([\[UNBOUNDPR\]](#)), we encountered this specific situations regarding the DNSSEC bogus status where no Extended DNS Error were yet defined.

[1.1.](#) Extended DNS Error Code 26 - Signature Wrong Size

The resolver attempted to perform DNSSEC validation, but the signature is either smaller or larger than expected for the specified algorithm.

[1.2.](#) Extended DNS Error Code 27 - Malformed Signer Name

The resolver attempted to perform DNSSEC validation, but the Signer's Name Field in the signature contains a malformed signer (d)name.

[1.3.](#) Extended DNS Error Code 28 - Signer Name Out of zone

The resolver attempted to perform DNSSEC validation, but the Signer's Name Field in the signature does not contain the zone name of the covered RRset.

[1.4.](#) Extended DNS Error Code 29 - Signature Label Count Wrong

The resolver attempted to perform DNSSEC validation, but the number of labels in the Signature Labels Field is incorrect.

[1.5.](#) Extended DNS Error Code 30 - DNSSEC Insufficient NSEC Proof

The resolver attempted to perform DNSSEC validation, but the signed response does not have valid NSEC proof.

[1.6.](#) Extended DNS Error Code 31 - DNSSEC Unknown Protocol

The resolver attempted to perform DNSSEC validation, but found a value not equal to 3 in the DNSKEY protocol number field as specified by [RFC4034](#)#section-2.1.2.

[2.](#) IANA Considerations

This draft requests the assignment of a new EDE code values for the specified EDE codes.

[3.](#) Security Considerations

As this draft only seeks to add code points to the EDE registry, the security considerations are the same as in [\[RFC8914\]](#).

[4.](#) References

[4.1.](#) Normative References

[RFC8914] Kumari, W., Hunt, E., Arends, R., Hardaker, W., and D. Lawrence, "Extended DNS Errors", [RFC 8914](#), DOI 10.17487/RFC8914, October 2020, <<https://www.rfc-editor.org/info/rfc8914>>.

[4.2.](#) Informative References

[UNBOUNDPR]

Carpay, T. and W. Toorop, "EDE for Unbound pull request", n.d., <<https://github.com/NLnetLabs/unbound/pull/604/>>.

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