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## EdDSA value for IPSECKEY

### Abstract

This document assigns a value for EdDSA Public Keys to the IPSECKEY IANA registry.

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### 1. Introduction

The IPSECKEY IANA Registry specifically enumerates the various Algorithm Types used. This document adds support for the EdDSA algorithm's Public Keys in IPSECKEY.

### 2. Terms and Definitions

#### 2.1. Requirements 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.

### 3. IPSECKEY support for EdDSA

The new EdDSA value uses [[RFC8080](#)] for the IPSECKEY encoding:

Value	Description
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TBD2 (suggested value 4)	
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	An EdDSA Public key is present, in the format defined in [ <a href="#">RFC8080</a> ]
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### 4. IANA Considerations

#### 4.1. IANA IPSECKEY Registry Update

This document requests IANA to make the following change to the "IPSECKEY Resource Record Parameters" [[IANA-IPSECKEY](#)] registry:

## IPSECKEY:

This document defines the new IPSECKEY value TBD2 (suggested: 4) ([Section 3](#)) in the "Algorithm Type Field" subregistry of the "IPSECKEY Resource Record Parameters" registry.

Value	Description	Reference
TBD2 (suggested value 4)	[This] An EdDSA Public key is present, in the format defined in [RFC8080]	

## 5. Security Considerations

TBD

## 6. References

### 6.1. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", DOI 10.17487/RFC2119, BCP 14, RFC 2119, March 1997, <<https://www.rfc-editor.org/info/rfc2119>>.
- [RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", DOI 10.17487/RFC8174, RFC 8174, BCP 14, May 2017, <<https://www.rfc-editor.org/info/rfc8174>>.

### 6.2. Informative References

- [IANA-IPSECKEY] IANA, "IPSECKEY Resource Record Parameters", <<https://www.iana.org/assignments/ipseckey-rr-parameters/ipseckey-rr-parameters.xhtml>>.
- [RFC8080] Sury, O. and R. Edmonds, "Edwards-Curve Digital Security Algorithm (EdDSA) for DNSSEC", RFC 8080, DOI 10.17487/RFC8080, February 2017, <<https://www.rfc-editor.org/info/rfc8080>>.

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