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Reclassifying SIIT-DC-DTM (RFC7756) to Internet Standard
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Abstract

This document reclassifies Stateless IP/ICMP Translation for IPv6 Internet Data Center Environments (SIIT-DC): Dual Translation Mode ([RFC7756]) to Standards Track and subsquently to Internet Standard.

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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This Internet-Draft will expire on 17 April 2026.

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1. Introduction

This document proposes that Stateless IP/ICMP Translation for IPv6 Internet Data Center Environments (SIIT-DC): Dual Translation Mode ([RFC7756]) is advanced to Standards Track (if this intermediate step is required) and subsequently to Internet Standard, following RFC6410 ([RFC6410]).

(1) There are at least two independent interoperating implementations with widespread deployment and successful operational experience.

Stateless IP/ICMP Translation for IPv6 Internet Data Center Environments (SIIT-DC): Dual Translation Mode ([RFC7756]) has been widely implemented by at least a dozen of vendors and its being used in commercial deployments by hundreds of millions of devices.

(2) There are no errata against the specification that would cause a new implementation to fail to interoperate with deployed ones.

Stateless IP/ICMP Translation for IPv6 Internet Data Center Environments (SIIT-DC): Dual Translation Mode ([RFC7756]) has no errata filed.

(3) There are no unused features in the specification that greatly increase implementation complexity.

There are no unused features.

(4) If the technology required to implement the specification requires patented or otherwise controlled technology, then the set of implementations must demonstrate at least two independent, separate and successful uses of the licensing process.

None.

2. Normative References

[RFC6410] Housley, R., Crocker, D., and E. Burger, "Reducing the Standards Track to Two Maturity Levels", BCP 9, RFC 6410, DOI 10.17487/RFC6410, October 2011, <https://www.rfc-editor.org/info/rfc6410>.

[RFC7756] Anderson, T. and S. Steffann, "Stateless IP/ICMP
Translation for IPv6 Internet Data Center Environments
(SIIT-DC): Dual Translation Mode", RFC 7756,
DOI 10.17487/RFC7756, February 2016,
<https://www.rfc-editor.org/info/rfc7756>.

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