

Network Working Group
Internet-Draft
Updates: 5245 (if approved)
Intended status: Standards Track
Expires: May 15, 2011

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November 11, 2010

IANA Registry for Interactive Connectivity Establishment (ICE) Options
draft-westerlund-mmusic-ice-options-registry-00

Abstract

It has been identified that Interactive Connectivity Establishment (ICE) is missing a registry for ICE options. This document defines this missing IANA registry.

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1. Introduction

"Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer" [RFC5245] defines a concept of ICE Options. However, the ICE RFC fails to create an IANA registry for ICE options. As there has come into existence at least one ICE option, there is need to create the registry.

RFC 5245 says: "ICE provides for extensibility by allowing an offer or answer to contain a series of tokens that identify the ICE extensions used by that agent. If an agent supports an ICE extension, it MUST include the token defined for that extension in the ice-options attribute."

Thus, as future extensions are defined, these ICE options needs to be registered with IANA to ensure non-conflicting identification. The ICE options identifiers are used in signalling between the ICE endpoints to negotiate extension support. RFC 5245 defines one method of signaling these ICE options, using SDP with Offer/Answer [RFC3264].

2. Requirements Language

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

3. IANA Considerations

This document defines a registry for ICE options that can be used in SDP "ice-options" attribute or other signalling parameters carrying the ICE options.

3.1. ICE Options

An ICE option identifier MUST fulfill the following ABNF [RFC5234] syntax:

```
ice-option-tag      = 1*ice-char
ice-char            = ALPHA / DIGIT / "+" / "/"
```

ICE options SHOULD NOT be longer than 20 characters.

Registration of an ICE option is done using the Specification Required policy as defined in "Guidelines for Writing an IANA Considerations Section in RFCs" [RFC5226].

A registration request MUST include the following information:

- o Name of contact person for the registration
- o Email and Address of the Contact person
- o Organization having the change control
- o The ICE option identifier
- o Short description of the ICE extension
- o Reference(s) to the specification defining the ICE option and the related extensions

4. Security Considerations

As this document defines an IANA registry for an already existing concept there are no new security considerations.

5. Acknowledgements

6. References

6.1. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.
- [RFC5226] Narten, T. and H. Alvestrand, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 5226, May 2008.
- [RFC5234] Crocker, D. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008.
- [RFC5245] Rosenberg, J., "Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols", RFC 5245, April 2010.

6.2. Informative References

- [RFC3264] Rosenberg, J. and H. Schulzrinne, "An Offer/Answer Model with Session Description Protocol (SDP)", RFC 3264,

June 2002.

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