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Instant Messaging and Presence Purpose for the Call-Info Header in the Session Initiation Protocol (SIP) draft-saintandre-impp-call-info-01

Abstract

This document defines and registers a value of "impp" ("instant messaging and presence protocol") for the "purpose" header field parameter of the Call-Info header field in the Session Initiation Protocol (SIP).

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Table of Contents

1. Introduction 2
2. Security Considerations 2
3. IANA Considerations 2
4. References 3
4.1. Normative References 3
4.2. Informative References 3
Appendix A. Acknowledgements 3
Author's Address 3

1. Introduction

To improve interoperability among real-time communication endpoints that support the combined use of the Session Initiation Protocol (SIP) [RFC3261] and the Extensible Messaging and Presence Protocol (XMPP) [RFC6120] (so-called "CUSAX" endpoints [I-D.ivov-xmpp-cusax]), it can be helpful to communicate the endpoint's SIP address over XMPP and the endpoint's XMPP address over SIP to provide hints about the endpoints communication capabilities. The former feature is enabled by an XMPP extension protocol called Reachability Addresses [XEP-0152]. As to the latter feature, discussion in the SIP community led to the conclusion that it would be best to use the Call-Info header [RFC3261] with a value of "impp" ("instant messaging and presence protocol") for the "purpose" header field parameter. This document defines and registers the "impp" value.

(Although CUSAX endpoints constitute the primary use case for the "impp" purpose, a Uniform Resource Identifier (URI) [RFC3986] for an instant messaging and presence protocol other than XMPP could be included in the Call-Info header.)

2. Security Considerations

Advertising an endpoint's XMPP address over SIP could inform malicious entities about an alternative attack vector. Because the "purpose" header field parameter could be spoofed, the receiving endpoint ought to check the value against an authoritative source such as a user directory.

3. IANA Considerations

The IANA is requested to add a new predefined value "impp" for the "purpose" header field parameter of the Call-Info header field, by adding this RFC as a reference to the line for the header field "Call-Info" and parameter name "purpose":

Header Field: Call-Info
Parameter Name: purpose
Predefined Values: Yes
Reference: [this document]

4. References

4.1. Normative References

[RFC3261] Rosenberg, J., Schulzrinne, H., Camarillo, G., Johnston, A., Peterson, J., Sparks, R., Handley, M., and E. Schooler, "SIP: Session Initiation Protocol", RFC 3261, June 2002.

[RFC3986] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, RFC 3986, January 2005.

[RFC6120] Saint-Andre, P., "Extensible Messaging and Presence Protocol (XMPP): Core", RFC 6120, March 2011.

4.2. Informative References

[I-D.ivov-xmpp-cusax]
Ivov, E., Saint-Andre, P., and E. Marocco, "Combined Use of the Session Initiation Protocol (SIP) and the Extensible Messaging and Presence Protocol (CUSAX)", draft-ivov-xmpp-cusax-04 (work in progress), April 2013.

[XEP-0152]
Saint-Andre, P. and J. Hildebrand, "Reachability Addresses", XSF XEP 0152, February 2013.

Appendix A. Acknowledgements

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