Replace Instant Message in the Session Initiation Protocol (SIP)
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Abstract

This document specifies a mechanism that allows a SIP User Agent Client (UAC) to replace or recall a previously sent instant message.

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1. Introduction

RFC 3261 [2] is extended by RFC 3428 [3] to carry instant messages in MESSAGE requests. One of the aspects of MESSAGE requests according to RFC 3428 [3] is the lack of support for replacing or recalling a previous page-mode instant message. For example, Alice wants to send an instant message to Bob, but Alice finds she has sent it to a wrong person. In this case Alice wants to recall that instant message.

The requirement can be expressed as:

REQ-1: It MUST be possible for a user to replace or recall a previous instant message with a new instant message.

The similar requirement has been realized in many messaging services (e.g., Email, SMS and MMS). We try to reuse some mechanisms to meet the requirement with a page-mode instant message.

In this early stage we intend to discuss the open issues first. After the open issues are discussed this document will provide a solution to fulfill the above requirements.
2. Terminology

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 [1]
3. Overview

There are some open issues need to be considered before introducing the instant message replace or recall mechanism:

OPEN ISSUE 1: There may be two ways to archive this requirement, extension to CPIM (Common Presence and Instant Messaging) or extension to SIP MESSAGE. They are overlap, but have different benefit. Which one should we choose? Or both?

OPEN ISSUE 2: If we need extension to SIP MESSAGE, could we reuse the Replaces header field defined in RFC 3891?

OPEN ISSUE 3: How to identify a previous page-mode instant message? Message-ID can be used to match an email, what is for MESSAGE?
4. UAC Procedure

TBD
5. UAS Procedure

TBD
6. Examples

TBD
7. Security Considerations

TBD
8. IANA Considerations

TBD
9. Acknowledges

TBD
10. References

10.1. Normative References


10.2. Informative References
Appendix A. History of change

This is the first version of this draft.
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