RFC 9366
Multiple SIP Reason Header Field Values

Abstract

The SIP Reason header field as defined in RFC 3326 allows only one Reason value per protocol value. Experience with more recently defined protocols shows it is useful to allow multiple values with the same protocol value. This document updates RFC 3326 to allow multiple values for an indicated registered protocol when that protocol defines what the presence of multiple values means.

Status of This Memo

This is an Internet Standards Track document.

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1. Introduction

The SIP Reason header field as defined in RFC 3326 allows only one Reason value per protocol value. Experience with more recently defined protocols shows it is useful to allow multiple values with the same protocol value [STIRREASONS]. This document updates RFC 3326 to allow multiple values for an indicated registered protocol when that protocol defines what the presence of multiple values means. It does not change the requirement in RFC 3326 restricting the header field contents to one value per protocol for those protocols that do not define what multiple values mean.

2. Conventions

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. Update to RFC 3326

The last paragraph of Section 2 of [RFC3326] is replaced as follows:

OLD:
A SIP message **MAY** contain more than one Reason value (i.e., multiple Reason lines), but all of them **MUST** have different protocol values (e.g., one SIP and another Q.850). An implementation is free to ignore Reason values that it does not understand.

NEW:

A SIP message **MAY** contain more than one Reason value (i.e., multiple Reason lines). If the registered protocol for the Reason value specifies what it means for multiple values to occur in one message, more than one value for that protocol **MAY** be present. Otherwise, there **MUST** be only one value per protocol provided (e.g., one SIP and another Q.850). An implementation is free to ignore Reason values that it does not understand.

4. Security Considerations

This document adds no security considerations to the use of SIP. The security considerations in [RFC3326] and those in any registered protocols used in Reason header field values should be considered.

5. IANA Considerations

This document has no IANA actions.

6. References

6.1. Normative References


6.2. Informative References

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Author's Address

Robert Sparks
Email: rjsparks@nostrum.com