Feature Tags with SIP REFER draft-ietf-sip-refer-feature-param-00

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Nov 6 -11, 2005 SIP WG IETF64 Slide #1

Status from IETF-63

- Concerns were expressed about which feature tags should be included in REFERs
- Positions ranged from:
 - Only isfocus and a small set of other feature tags MAY be included
 - Every known feature tag SHOULD be included
 - The whole idea is useless
- The draft hasn't been updated since IETF-63

Background Information

- RFC 3840 "Indicating User Agent Capabilities in SIP" states that the feature tags are used in three distinct cases:
 - REGISTER requests and responses (means interactions with own server)
 - OPTIONS responses (means interactions with other UAs)
 - requests and responses that create dialogs (such as INVITE) (means interactions with other UAs)

Background Information – cont.

- draft-ietf-sipping-callerprefs-usecases-05
 provides guidance and examples for the
 feature tags usage:
 - In a REGISTER all feature tags (a long list including the SIP-related option tags and methods) are included
 - In a INVITE or 200 OK to OPTIONS only selective feature tags describing application capabilities are included

Examples from draft-ietf-sipping-callerprefs-usecases-05

From Section 3.7.2

REGISTER sip:example.com SIP/2.0 To: sip:X@example.com

Contact: <sip:X1@pc.example.com>

'q=1.0

;methods="INVITE,BYE,OPTIONS

,ACK,CANCEL"

;uri-user="<X1>"

;uri-domain="example.com"

;audio

;schemes="sip,tel"

;mobility="fixed"

;class="business"

From Section 4.2

SIP/2.0 200 OK

Contact: <sip:server33.example.com>

;msgserver

;automata

;attendant

Proposal Part I

- Clarify the feature tags usage in the core documents:
 - RFC 3840 which has the relevant IANA Section
 - Potentially update the draft-ietf-sippingcallerprefs-usecases-05 to include examples in accordance to the clarified usage

Proposal Part I - cont.

- Considerations why it is NOT desirable to include all feature tags in the Contact
 - Message size for every creating dialog transaction
 - The non-application feature tags conveyed in the Contact header field are a duplication of the information conveyed in the following header fields: Supported, Allow, Allow-Events...

Proposal Part I - cont.

- The suggested guideline
 - In a REGISTER all feature tags (a long list including the SIP-related option tags and methods) are included
 - In a INVITE or 200 OK to OPTIONS only selective feature tags describing application capabilities are included
- More thinking and list discussions will be needed

Proposal Part II

 The suggested text to draft-ietf-sip-referfeature-param:

"It is RECOMMENDED that the REFER-Issuer includes in the Refer-To header field **all** feature tags that were listed in the most recent Contact header field of the REFER-Target"

Backup Slides

Executive Summary

Motivation

Make REFER requests more descriptive by explicitly allowing feature parameters to be included in the Refer-to

- No IANA actions
- Extension to RFC-3515

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Example

REFER sip:carol@chicago.example.com SIP/2.0

Via: SIP/2.0/UDP

client.atlanta.example.com;branch=z9hG4bKg45

Max-Forwards: 70

To: Carol <sip:carol@chicago.example.com>

From: Alice <sip:alice@atlanta.example.com>;tag=5534562

Call-ID: 849392fklgl43

CSeq: 476 REFER

Contact: <sip:uf313a413@example.com>

Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER,

SUBSCRIBE, NOTIFY

Accept: application/sdp, message/sipfrag

Refer-To: <sip:3402934234@example.com>;**isfocus**

Supported: gruu, ... Content-Length: 0