

skipping to change at page 2, line 34

skipping to change at page 2, line 34

5.2. No Language in Common	7
5.3. Usage Notes	7
5.4. Examples	8
6. IANA Considerations	10
6.1. att-field Table in SDP Parameters	10
6.2. Warn-Codes Sub-Registry of SIP Parameters	11
7. Security Considerations	11
8. Privacy Considerations	11
9. Changes from Previous Versions	11
9.1. Changes from draft-ietf-slim-...-04 to draft-ietf-slim-...-06	12
9.2. Changes from draft-ietf-slim-...-02 to draft-ietf-slim-...-03	12
9.3. Changes from draft-ietf-slim-...-01 to draft-ietf-slim-...-02	12
9.4. Changes from draft-ietf-slim-...-00 to draft-ietf-slim-...-01	12
9.5. Changes from draft-gellens-slim-...-03 to draft-ietf-slim-...-00	13
9.6. Changes from draft-gellens-slim-...-02 to draft-gellens-slim-...-03	13
9.7. Changes from draft-gellens-slim-...-01 to draft-gellens-slim-...-02	13
9.8. Changes from draft-gellens-slim-...-00 to draft-gellens-slim-...-01	13
9.9. Changes from draft-gellens-mmusic-...-02 to draft-gellens-slim-...-00	13
9.10. Changes from draft-gellens-mmusic-...-01 to -02	13
9.11. Changes from draft-gellens-mmusic-...-00 to -01	14
9.12. Changes from draft-gellens-...-02 to draft-gellens-mmusic-...-00	14
9.13. Changes from draft-gellens-...-01 to -02	15
9.14. Changes from draft-gellens-...-00 to -01	15
10. Contributors	15
11. Acknowledgments	15
12. References	16
12.1. Normative References	16
12.2. Informational References	16
Author's Address	17

5.2. No Language in Common	7
5.3. Usage Notes	7
5.4. Examples	8
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6.1. att-field Table in SDP Parameters	10
6.2. Warn-Codes Sub-Registry of SIP Parameters	11
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9. Changes from Previous Versions	11
9.1. Changes from draft-ietf-slim-...-04 to draft-ietf-slim-...-06	11
9.2. Changes from draft-ietf-slim-...-02 to draft-ietf-slim-...-03	12
9.3. Changes from draft-ietf-slim-...-01 to draft-ietf-slim-...-02	12
9.4. Changes from draft-ietf-slim-...-00 to draft-ietf-slim-...-01	12
9.5. Changes from draft-gellens-slim-...-03 to draft-ietf-slim-...-00	12
9.6. Changes from draft-gellens-slim-...-02 to draft-gellens-slim-...-03	12
9.7. Changes from draft-gellens-slim-...-01 to draft-gellens-slim-...-02	13
9.8. Changes from draft-gellens-slim-...-00 to draft-gellens-slim-...-01	13
9.9. Changes from draft-gellens-mmusic-...-02 to draft-gellens-slim-...-00	13
9.10. Changes from draft-gellens-mmusic-...-01 to -02	13
9.11. Changes from draft-gellens-mmusic-...-00 to -01	13
9.12. Changes from draft-gellens-...-02 to draft-gellens-mmusic-...-00	14
9.13. Changes from draft-gellens-...-01 to -02	14
9.14. Changes from draft-gellens-...-00 to -01	15
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11. Acknowledgments	15
12. References	15
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Author's Address	16

1. Introduction

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A mutually comprehensible language is helpful for human communication. This document addresses the negotiation of human (natural) language and media modality (spoken, signed, written) in real-time communications. A companion document [RFC8255] addresses language selection in email.

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Unless the caller and callee know each other or there is contextual

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skipping to change at page 6, line 25

skipping to change at page 6, line 25

and receive using audio), either hlang-send or hlang-recv MAY be omitted. Note that the media can still be useful in both directions. When a media is not primarily intended for language (for example, a video or audio stream intended for background only) both SHOULD be omitted. Otherwise, both SHOULD have the same value. Note that specifying different languages for each direction (as opposed to the same or essentially the same language in different modalities) can make it difficult to complete the call (e.g., specifying a desire to send audio in Hungarian and receive audio in Portuguese).

In an answer, 'hlang-send' is the language the answerer will send if using the media for language (which in most cases is one of the languages in the offer's 'hlang-recv'), and 'hlang-recv' is the language the answerer expects to receive if using the media for language (which in most cases is one of the languages in the offer's 'hlang-send').

In an offer, each value MUST be a list of one or more language tags per BCP 47 [RFC5646], separated by white space. In an answer, each value MUST be one language tag per BCP 47. BCP 47 describes mechanisms for matching language tags. Note that [RFC5646] Section 4.1 advises to "tag content wisely" and not include unnecessary subtags.

When placing an emergency call, and in any other case where the language cannot be inferred from context, in an offer each media stream primarily intended for human language communication SHOULD specify the 'hlang-send' and/or 'hlang-recv' attributes for the direction(s) intended for interactive communication.

Clients acting on behalf of end users are expected to set one or both

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In an answer, 'hlang-send' is a list of one or more languages the answerer might send if using the media for language (which in most cases contains one or more of the languages in the offer's 'hlang-recv'), and 'hlang-recv' is a list of one or more languages the answerer is prepared to receive if using the media for language (which in most cases contains one or more of the languages in the offer's 'hlang-send').

In an offer or answer, each value MUST be a list of one or more language tags per BCP 47 [RFC5646], separated by white space. BCP 47 describes mechanisms for matching language tags. Note that [RFC5646]

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Clients acting on behalf of end users are expected to set one or both

skipping to change at page 10, line 32

skipping to change at page 10, line 32

level only)' table of the SDP parameters registry:

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The first entry is for hlang-recv:

The first entry is for hlang-recv:

Attribute Name: hlang-recv
Contact Name: Randall Gellens
Contact Email Address: rg+ietf@coretechnologyconsulting.com
Attribute Value: hlang-value
Attribute Syntax:

Attribute Name: hlang-recv
Contact Name: Randall Gellens
Contact Email Address: rg+ietf@coretechnologyconsulting.com
Attribute Value: hlang-value
Attribute Syntax:

hlang-value = hlang-offv / hlang-ansv
; hlang-offv used in offers

hlang-value = Language-Tag *(SP Language-Tag)

; hlang-ansv used in answers			
hlang-offv = Language-Tag *(SP Language-Tag)			
SP = 1* " ; Language-Tag as defined in BCP 47		SP = 1* " ; Language-Tag as defined in BCP 47	
SP = 1* " ; one or more space (%x20) characters		SP = 1* " ; one or more space (%x20) characters	
hlang-ansv = Language-Tag			
Attribute Semantics: Described in Section 5.1 of TBD: THIS DOCUMENT		Attribute Semantics: Described in Section 5.1 of TBD: THIS DOCUMENT	
Usage Level: media		Usage Level: media	
Mux Category: NORMAL		Mux Category: NORMAL	
Charset Dependent: No		Charset Dependent: No	
Purpose: See Section 5.1 of TBD: THIS DOCUMENT		Purpose: See Section 5.1 of TBD: THIS DOCUMENT	
O/A Procedures: See Section 5.1 of TBD: THIS DOCUMENT		O/A Procedures: See Section 5.1 of TBD: THIS DOCUMENT	
Reference: TBD: THIS DOCUMENT		Reference: TBD: THIS DOCUMENT	
The second entry is for hlang-send:		The second entry is for hlang-send:	
Attribute Name: hlang-send		Attribute Name: hlang-send	
Contact Name: Randall Gellens		Contact Name: Randall Gellens	
Contact Email Address: rg+ietf@coretechnologyconsulting.com		Contact Email Address: rg+ietf@coretechnologyconsulting.com	
Attribute Value: hlang-value		Attribute Value: hlang-value	
Attribute Syntax:			
hlang-value = hlang-offv / hlang-ansv			
Attribute Semantics: Described in Section 5.1 of TBD: THIS DOCUMENT		Attribute Semantics: Described in Section 5.1 of TBD: THIS DOCUMENT	
Usage Level: media		Usage Level: media	
Mux Category: NORMAL		Mux Category: NORMAL	
Charset Dependent: No		Charset Dependent: No	
Purpose: See Section 5.1 of TBD: THIS DOCUMENT		Purpose: See Section 5.1 of TBD: THIS DOCUMENT	
O/A Procedures: See Section 5.1 of TBD: THIS DOCUMENT		O/A Procedures: See Section 5.1 of TBD: THIS DOCUMENT	
Reference: TBD: THIS DOCUMENT		Reference: TBD: THIS DOCUMENT	
6.2. Warn-Codes Sub-Registry of SIP Parameters		6.2. Warn-Codes Sub-Registry of SIP Parameters	

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27 lines changed or deleted	19 lines changed or added