

Describing O/A Procedures for SDP Attributes



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No draft (yet...)

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(2) THE BACKGROUND



- When a new SDP attribute is defined, the SDP offer/answer procedures associated with that attribute needs to be defined
- Currently, the structure of RFC 3264 is to be used
 - Generating the Initial SDP Offer
 - Generating the SDP Answer
 - Offerer Processing of the SDP Answer
 - Modifying the Session

(3) THE PROBLEM



- Unclear what “Initial offer” means
 - **Alt 1: First offer within a session**
 - **Alt 2: Offer within a session when an SDP attribute is introduced**
 - Could be first offer within a session
 - If the attribute has a default value, it will always be implicitly included in the first offer within a session
 - Could be a subsequent offer within a session
- Media-level SDP attributes can be added to specific m- sections in different offers

(4) THE BOTTOMLINE



- Within the procedures, we need to separate between the following two cases:
 - Offer where SDP attribute is first added to an m- section (implicitly or explicitly)
 - Offer where an SDP attribute has previously been added to an m-section, and:
 - Attribute value unchanged
 - Attribute value modified
 - Attribute removed

(5) THE SOLUTION

Alt 1: Clarify what Initial offer means

- Keep existing structure and wording
- For each attribute, describe what “Initial offer” means
 - Example from BUNDLE:

“The procedures in this section apply to the first offer, within an SDP session (e.g. a SIP dialog when the Session Initiation Protocol (SIP) [RFC3261] is used to carry SDP), in which the offerer indicates that it wants to negotiate a given BUNDLE group. This could occur in the initial offer, or in a subsequent offer, of the SDP session.”



(6) THE SOLUTION

Alt 2: Change the structure



- Modify existing structure and wording
- Do not talk about sending initial offer
- Talk about adding/introducing an attribute to a media description (or session), and the offers and answers associated with that:
 - **Add attribute to media description (or session)**
 - Send offer
 - Send answer
 - **Modify attribute in media description (or session)**
 - Send offer
 - Keep attribute unchanged
 - Update attribute
 - Remove
 - Send answer

(7) THE SUGGESTION



ALTERNATIVE 2

(8) THE WAY FORWARD



- How do we document the new structure/guidelines?
 - Separate RFC
 - Standards track, Informational, BCP,...
 - RFC 3264bis
 - Motivation and cycles?
 - We don't, and have this same discussion again in a not-so-distant future...

(9) THE END

