IANA SDP Attributes

IETF #95 Buenos Aires

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Current SDP Parameter Registry

  - **att-field (session level)** (25 reg.) (6 non-IETF)
  - **att-field (both session and media level)** (68 reg.) (4 non-IETF)
  - **att-field (media level only)** (152 reg.) (26 non-IETF)
  - **att-field (source level)** (5 reg.)
  - **att-field (unknown level)** (0 reg.)

+ content SDP Parameters, Group SDP semantic, “rtcp-fb”, “ack”&”nack”, “depend”, “cs-correlation”, “ssrc-group” SDP attribute values
## Current Format

<table>
<thead>
<tr>
<th>Type</th>
<th>SDP Name</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>att-field (both session and media level)</td>
<td>recvonly</td>
<td>[RFC4566]</td>
</tr>
</tbody>
</table>
8.2.4. Attribute Names ("att-field")

- Contact name, email address, and telephone number.
- Attribute name (as it will appear in SDP).
- Attribute value: The name of an ABNF syntax rule defining the syntax of the value. Absence of a rule name indicates that the attribute takes no value. Enclosing the rule name in "[" and "]" indicates that a value is optional.
- Usage level of the attribute. (One or more of: session, media, source).
- Whether the attribute value is subject to the charset attribute.
- An ABNF definition of the attribute value rule. The rule MUST NOT match anything that is not also matched by <att-value>. The rule name MUST NOT be defined as an Incremental Alternative to <att-value>.
- An explanation of the purpose and usage of the attribute.
- A specification of appropriate attribute values for this attribute (If not included in syntax).
- Offer/Answer procedures as explained in [RFC3264].
- Indication of which "category" [I-D.ietf-mmusic-sdp-mux-attributes] an attribute is associated with.
Proposed new format

<table>
<thead>
<tr>
<th>SDP Name</th>
<th>Level(s)</th>
<th>Reference(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>an-attribute</td>
<td>Session, media, source</td>
<td>[RFC1234]</td>
</tr>
</tbody>
</table>
Issues #1

• Is a registry a device to maintain unique names or something more for implementers? E.g. a place to look up information about messages.

• Is more information needed on the IANA registration?
Issue #2

• Currently only NEW attributes are added.
• What about new USES of existing attributes? E.g. RFC 4145 defines a=setup, a=connection
• Reused by:
  – RFC4572 TCP/TLS
  – draft-ietf-mmusic-sctp-sdp
  – draft-ietf-mmusic-dtls-sdp
  – Layer additional behaviour or add limits
• Retrospective updates?
Issue #3

- draft-ietf-mmusic-data-channel-sdpneg
  - Introduces a=dsca attribute allowing existing or new attributes to be used at a “data channel level” dependent on protocol.
  - Should “data channel (dcsa)” be a new “SDP Level”?
  - Should the level also include the subprotocol? E.g.

<table>
<thead>
<tr>
<th>SDP Name</th>
<th>Level(s)</th>
<th>Reference(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>accept-types</td>
<td>media, dcsa(MSRP)</td>
<td>[RFC4975]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[draft-ietf-mmusic-msrp-usage-data-channel]</td>
</tr>
</tbody>
</table>