Session ID and Troubleshooting

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9:00 am – session setup fails
9:15am – no marking parameter
Troubleshooting steps

- Both foocorp and barcorp configure all SIP entities that signalling might pass through to check for sessions initiated by Alice that fit criteria of the reported failure.
- Might include unnecessarily configuring of a large number of SIP entities not on the signalling path.
- Might require SIP entities to carry out complex checks on all SIP requests such as To:, From:, time of day, particular SIP method,...
- Ask Alice to initiate a session.
- Re-configure all SIP entities to stop checking requests.
- Collect logs (since no logging server defined).
9:15 am – with marking parameter

SIP request (session-ID) marked “debug”

Alice

SIP Entity → SIP Registrar → SIP Entity

Logging Server

foocorp

barcorp

Logging Server

Bob
Troubleshooting steps

• Only foocorp configures Alice’s UA and first proxy to check for sessions initiated by Alice that fit criteria of the reported failure
• SIP entities have simple logic to log sessions, if the marking parameter (e.g. “debug”) then log
• Ask Alice to initiate a session
• No need to configure SIP entities to stop checking and logging requests, safe to always check for marking parameter
• Logs automatically sent to logging server
Proposed Session ID requirement

• "It must be possible to mark a session identifier as inserted for logging purposes"

• “...in order to keep network operations and maintenance steps and also SIP entity data volume and processing load to practical levels when troubleshooting"
Example Open Mobile Alliance (OMA) requirements

• 3.2 Definitions

<table>
<thead>
<tr>
<th>Marking</th>
<th>The operation of enabling a device or component to subsequently initiate the Service Level Tracing.</th>
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</thead>
<tbody>
<tr>
<td>Marking request</td>
<td>A request initiated by the Service Provider or other authorized actor, which marks a device or component. The marking request contains the SLT start trigger event.</td>
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<tr>
<td>Marked device/component</td>
<td>A device or component that has been marked and has not been unmarked.</td>
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