



## SIP CLF Problem Statement

Draft-ietf-sipclf-problem-statement-03

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# Changes since -0{1,2}

- Minor changes:
  - Incorporated pending reviews done by John Elwell, Cullen Jennings and recent review of -02 by Peter Musgrave (thanks!)
  - Typos, etc.

# The (Updated) Data Model

- Timestamp
- Size of message
- Message type (Request or response)
- Directionality (received or sent)
- Source-IP:port:xport
- Dest-IP:port:xport
- Server-txn
- Client-txn
- From
- To
- Method
- Call-ID
- Cseq
- R-URI
- Status
- Body
- Ordered list of other SIP fields

# The Data Model

- The data model applies to all SIP entities:
  - UAC
  - UAS
  - Proxy
  - B2BUA (degenerate case of a Proxy)
  - Registrar/Redirect servers (special cases of UAS)

# The (Updated) Data Model

- In  $\{1,2\}$  different SIP entities logged different data model elements depending on their role (UAC, UAS, etc.) and directionality (request, response.)
- Now all SIP entities create a canonical log entry with the following mandatory elements:

Record size, Timestamp, Message type, Directionality, Cseq, R-URI, Destination:port:xport, Source:port:xport, To, From, Call-ID, Status, Server-Txn, Client-Txn

# The (Updated) Data Model

Table summarizes how mandatory fields are handled:

R: implies that the field is logged when a request is handled by that SIP entity.

r: implies that the field is logged when a response is handled by that SIP entity.

-: implies that the field is not applicable to that SIP entity.

|                        | UAC | UAS | UAS-half | UAC-half |
|------------------------|-----|-----|----------|----------|
| Timestamp              | R,r | R,r | R,r      | R,r      |
| SIP CLF record size    | R,r | R,r | R,r      | R,r      |
| Message type           | R,r | R,r | R,r      | R,r      |
| Directionality         | R,r | R,r | R,r      | R,r      |
| CSeq                   | R,r | R,r | R,r      | R,r      |
| R-URI                  | R   | R   | R        | R        |
| Destination:port:xport | R,r | R,r | R,r      | R,r      |
| Source:port:xport      | R,r | R,r | R,r      | R,r      |
| To                     | R,r | R,r | R,r      | R,r      |
| From                   | R,r | R,r | R,r      | R,r      |
| Call-ID                | R,r | R,r | R,r      | R,r      |
| Status                 | r   | r   | r        | r        |
| Server-Txn             | -   | R,r | R,r      | R,r      |
| Client-Txn             | R,r | -   | r        | R,r      |

SIP CLF fields logged per entity

# Example

## Direct call from Alice to Bob (PoV: Alice's UAC)

```
<allOneLine>
183 1275930743.699 R s INVITE-32 sip:bob@bob1.example.net
203.0.113.1:5060:udp 198.51.100.1:5060:udp
sip:bob@example.net sip:alice@example.com;tag=76yhh
f82-d4-f7@example.com - - c-l-xt6
</allOneLine>
```

```
<allOneLine>
175 1275930745.002 r r INVITE-32 - 198.51.100.1:5060:udp
203.0.113.1:5060:udp sip:bob@example.net;tag=b-in6-iu
sip:alice@example.com;tag=76yhh f82-d4-f7@example.com
180 - c-l-xt6
<allOneLine>
```

```
<allOneLine>
175 1275930746.100 r r INVITE-32 - 198.51.100.1:5060:udp
203.0.113.1:5060:udp sip:bob@example.net;tag=b-in6-iu
sip:alice@example.com;tag=76yhh f82-d4-f7@example.com
200 - c-l-xt6
<allOneLine>
```

```
<allOneLine>
193 1275930746.120 R s ACK-32 sip:bob@bob1.example.net
203.0.113.1:5060:udp 198.51.100.1:5060:udp
sip:bob@example.net;tag=b-in6-iu
sip:alice@example.com;tag=76yhh f82-d4-f7@example.com
- - c-l-xt6
<allOneLine>
```

Record size, Timestamp, Message type, Directionality, Cseq, R-URI, Destination:port:xport, Source:port:xport, To, From, Call-ID, Status, Server-Txn, Client-Txn

More complex examples in the draft.

# Open issues and next step

- No unknown open issues.
- 1 known open issue: Volume analysis (see <http://www.ietf.org/mail-archive/web/sip-clf/current/msg00123.html>).
- Do we need to include such analysis?
- Next steps: Besides above open issue, the draft is ready to be moved forward.
- Thanks!