

Guidelines for Implementing the Dialog Event Package in User Agents

Dale R. Worley
dworley@pingtel.com

Introduction to the dialog event package

- Defined in draft-ietf-sipping-dialog-package.
- Most components are optional, due to privacy concerns.
- In order to be useful for end-point call control (e.g., call pick-up), the dialog package NOTIFY messages needs to contain certain of the optional items.
- In order to be useful for call monitoring (e.g., attendant consoles), the to/from party information needs to be populated carefully.
- Requires security as to who may SUBSCRIBE.
- At SIPit 17, we tested 5 implementations; all had issues regarding these uses: Some were unusable for end-point call control. All were deficient for call monitoring.

Needed data items in the dialog event package

- Dialog identifiers and status: Call-ID, To-tag, From-tag, direction, state (early/established), duration
- Parties: local/remote identity/target URIs
 - “Identity” should logically identify the user (AOR)
 - P-Asserted-Identity, etc.
 - To/From header (possibly as rewritten)
 - AOR associated with Request-URI of request
 - “Target” should be Contact URI (see RFC 3261)
 - GRUU, if available
- Need to accept SUBSCRIBEs directed to:
 - contact URIs
 - UA address alone

Example

INVITE sip:222@example.com SIP/2.0
Via: SIP/2.0/UDP pc33.example.com;branch=z9hG4bK776asdhd
Max-Forwards: 70
To: Bob <sip:222@example.com>
From: Alice <sip:111@example.com>;tag=1928301774
Call-ID: a84b4c76e66710@example.com
CSeq: 314159 INVITE
Contact: <sip:111@10.15.20.30>

SIP/2.0 200 OK
Via: SIP/2.0/UDP pc33.example.com;branch=z9hG4bK776asdhd
To: Bob <sip:222@example.com>;tag=dleicks
From: Alice <sip:111@example.com>;tag=1928301774
Call-ID: a84b4c76e66710@pc33.atlanta.com
CSeq: 314159 INVITE
Contact: <sip:222@example.com;opaque="xyzyzy">

```
<dialog-info version="1" state="full">
  <dialog id="123456" call-id="a84b4c76e66710@example.com"
    local-tag="1928301774" remote-tag="dleicks"
    direction="initiator">
    <state>confirmed</state>
    <duration>274</duration>
    <local>
      <identity display="Alice">sip:111@example.com</identity>
      <target uri="sip:111@10.15.20.30"/>
    </local>
    <remote>
      <identity display="Bob">sip:222@example.org</identity>
      <target uri="sip:222@example.com;opaque="xyzyzy""/>
    </remote>
  </dialog>
</dialog-info>
```

Report

- I have been compiling observations, requirements, and desiderata in draft-worley-sipping-dialog, “Guidelines for Implementing the Dialog Event Package in User Agents”.
- In process as an I-D; currently available at <http://scm.sipfoundry.org/rep/ietf-drafts/worley/draft-worley-sipping-dialog-00.txt>
- The current version is a rough draft, version 00.
- Currently, there are 9 guidelines.
- Implementors are invited to review it and contact me at dworley@pingtel.com.