

# Session-ID Requirements at IETF83

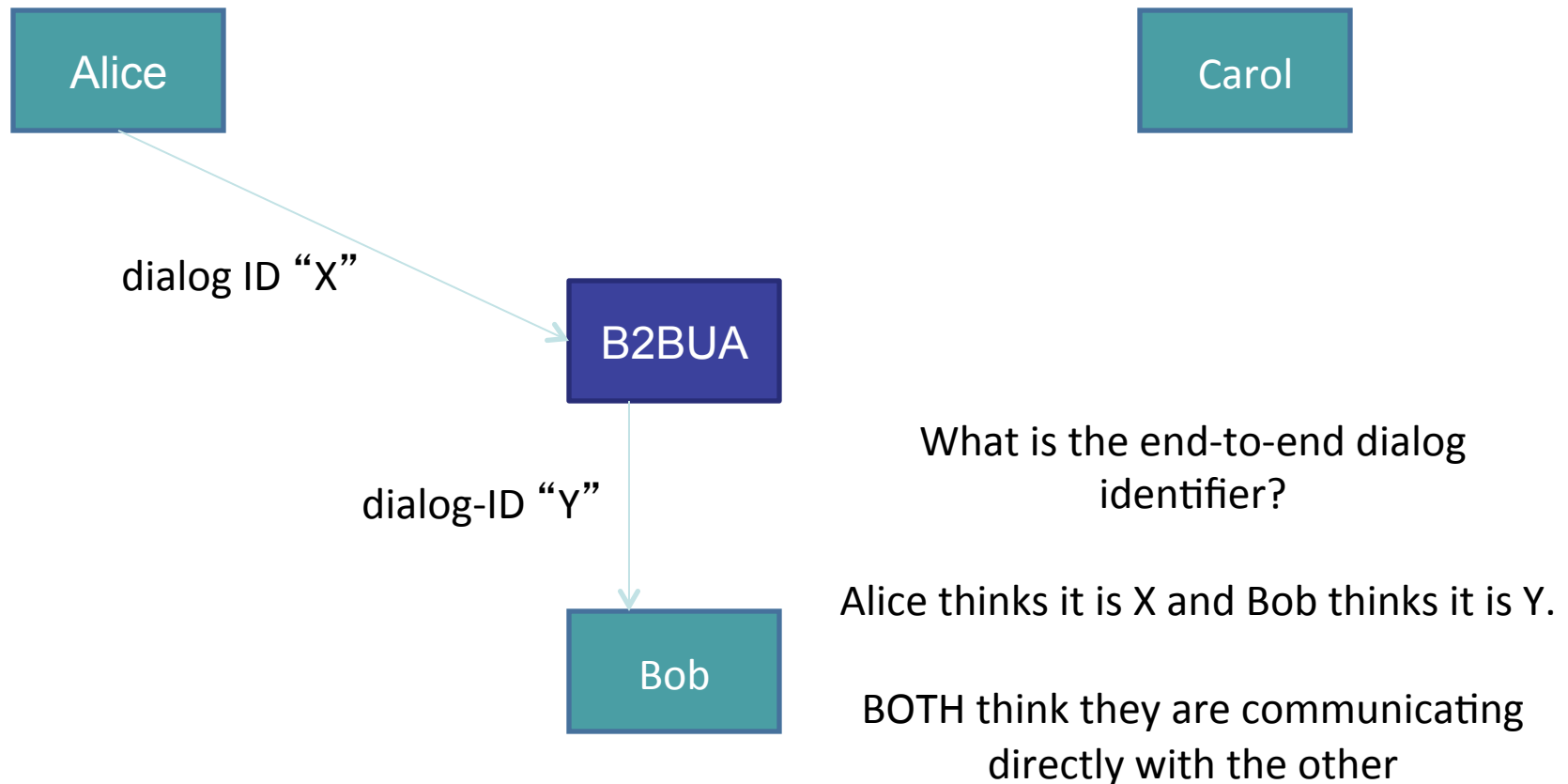
draft-jones-ipmc-session-id-reqts-01

Paul Jones, Gonzalo Salgueiro, **James Polk**, Laura Liess,  
Parthasarathi Ravindran, Roland Jesske, Salvatore Loreto, Hadriel Kaplan

# Purpose of Draft

- Purpose (hopefully) same as this WG's purpose:
  - To create an identifier that middleboxes won't muck with that is (nearly) identical in goal to that of the dialog-ID in SIP when there are no middleboxes between UAs in a call (flow/session/whatever).
    - i.e., as if no B2BUAs or SBCs were in the signaling path

# Illustrating the Problem: Alice and Bob via B2BUA or SBC



# Session-ID Use-Cases (1/2)

- End-to-end identification of a communication session
- Association of session signaling and media flows, made possible by including the session identifier in media-related messages (e.g., RSVP or RTCP)
- Identification of devices taking part in the same multipoint conference

# Session-ID Use-Cases (2/2)

- Tracking sessions transferred from one endpoint to another
- Facilitate the recording of SIP sessions and correlating those sessions
- Logging for the purposes of accounting, billing, debugging, communication tracking (such as for security purposes in case of theft of service), etc.

# Session-ID Requirements (1/4)

- **REQ1:** It must be possible for an administrator or an external device which monitors the SIP-traffic to use the identifier to identify a set of dialogs which have a relationship with each other, such that they represent the same SIP session, with as high a probability as possible.
- **REQ2:** It must be possible to identify the end-to-end session when a session is transferred or if two different sessions are joined together via an intermediary (e.g., a B2BUA or SBC).

# Session-ID Requirements (2/4)

- **REQ3:** It must be possible to identify all sessions participating in a multipoint or multi-party conference by observing the end-to-end session identifiers of each session.
- **REQ4:** It must be possible to pass the identifier unchanged through SIP B2BUAs or other intermediaries.
- **REQ5:** The identifier must not reveal any information related to any SIP device or domain identity, including IP Address, port, hostname, domain name, username, Address-of-Record, MAC address, IP address family, transport type, etc.

# Session-ID Requirements (3/4)

- **REQ6:** The identifier must not reveal to the receiver of it that the Call-ID, tags, or any other SIP header or body portion have been changed by middleboxes, with as high a probability as possible.
- **REQ7:** It must be possible to identity SIP traffic with an end-to-end session identifier from and to end devices that do not support this new identifier, such as by allowing an intermediary to inject an identifier into the session signaling.



# Session-ID Requirements (4/4)

- **REQ8:** The identifier should be unique in time and space, similar to the Call-ID.
- **REQ9:** The identifier should be constructed in such a way as to make it suitable for transmission in SIP, H.323, RSVP, and RTCP.

# Open Issues

- Should this set of requirements be woven into an early section of WG' s existing milestone, brought forward as a separate milestone, or left to remain a draft only?
- Others?