

Problem Statement and Requirements for SIP Call Control UI

draft-ietf-cuss-sip-uui-reqs-01

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Recent Changes

- Removed REQ-6
- Added security requirements REQ-13 and REQ-14
- Modified REQ-3
- Added clarifying text to REQ-8, REQ-10, REQ-11, and REQ-12
- Rewrote Security Considerations
- Added a paragraph in Overview explaining call control UI and why INFO is not used.
- Other small edits: see the diff for details.

Recent List Discussion

- REQ-2 wording
- Redirection issues
- REQ-12 wording
- Multiple applications using UUI at same time

New Security Requirements

- REQ-13: The mechanism will allow integrity protection of the UUI.
- REQ-14: The mechanism will allow end-to-end privacy of the UUI.

New Security Considerations

The security requirements for the SIP UUI mechanism are described in REQ-13 and REQ-14, providing integrity protection and/or privacy. In addition, there is an identity requirement in REQ-12, which relates to the ability for the UAS to know who inserted the UUI.

It is important to note that UUI security is jointly provided at the application layer and at the SIP layer. As such, is important for application users of SIP UUI to know the realistic level of security used and deployed in SIP, and not assume that some rarely deployed SIP level security mechanism is in place.

REQ-3

- Changed to:

REQ-3: The mechanism will allow UUI to be inserted and retrieved in SIP redirects **and referrals**.

REQ-2

- John Elwell pointed out REQ-2 was too vague in referring to dialog terminating requests and responses.
- Proposed change to:
REQ-2: The mechanism will allow UAs to insert and receive UUI data in SIP **call** terminating requests and responses.

Redirection

- John Elwell pointed out inconsistency in UUI definitions relating to redirection.

- Proposed change:

- Usually the application is running in both the originator of the session and the terminator of the session. That is, the application interacts with the User Agent Client (UAC) and User Agent Server (UAS). In the case of SIP redirection, this is modified slightly in that the application is running in the UAS which redirected the INVITE and the terminator of the session.

Redirection Redux

- John Elwell pointed “REQ-4 that says UUI must survive redirection, and REQ-3 that says UUI can be inserted when redirecting. How do these interact?”
 - Proposal: Discuss in mechanism draft

REQ-12

- John Elwell pointed out identity but not authentication is discussed in REQ-12 and security considerations.
 - Proposed change:

REQ-12: The recipient of UUI will be able to identify **and authenticate** the entity that inserted the UUI. It is acceptable that this is performed implicitly where it is known that there is only one other end UA involved in the dialog. Where that does not exist, some other mechanism will need to be provided.

Multiple UIs

- John Elwell pointed out “I don't see any statement about the ability of multiple applications each to insert their own UUI in a SIP request or response.”
 - Proposed to address in mechanism draft which currently says multiple UIs per application is determined by the application usage.

Next Steps

- Confirm decisions on list
- WGLC soon?