

# Problem Statement and Requirements for SIP Call Control UUI

draft-johnston-cuss-sip-uui-reqs-00

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# History

- Initial version draft-johnston-sipping-cc-uui-00 was submitted in 2006.
- Requirements and use cases in draft-johnston-sipping-cc-uui-07 was discussed and last called in SIPPING in 2008.
- The topic was DISPATCHed in July 2009 using draft-johnston-dispatch-sip-cc-uui-00.
- Revised as draft-johnston-cuss-sip-cc-uui-reqs-00 after formation of CUSS WG
  - Added Laura Liess as co-author

# Problem Statement

- User-to-User Information (UUI) defined as application-specific information related to a session being established or terminated using SIP
- Considered a higher layer in protocol stack
- Information is orthogonal to SIP – not useful or needed by the SIP layer
- Commonly used in ISDN/ISUP but there is a need for a native UUI service in SIP

# Call Flows 1

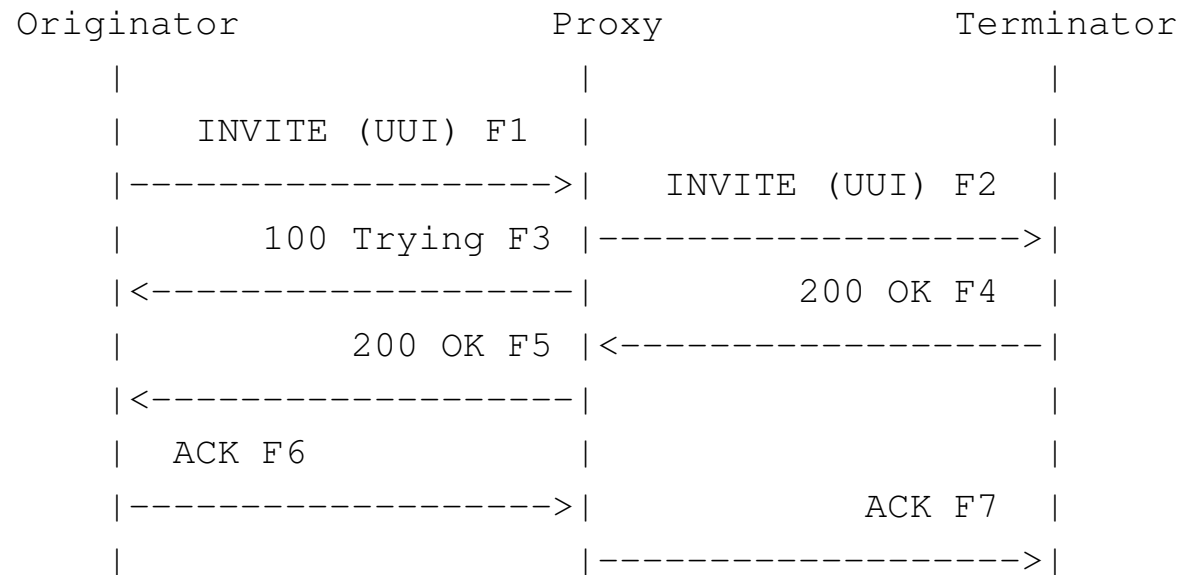


Figure 1. Call flow with UUI exchanged between Originator and Terminator.

# Call Flows 2

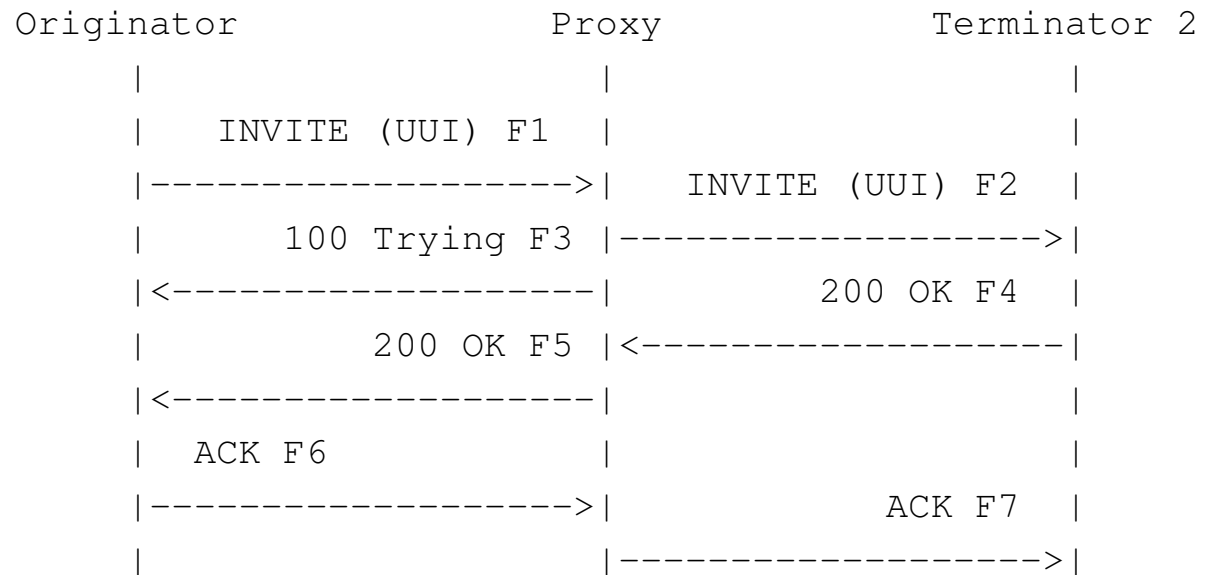


Figure 2. Call flow with Proxy Retargeting.

# Call Flows 3

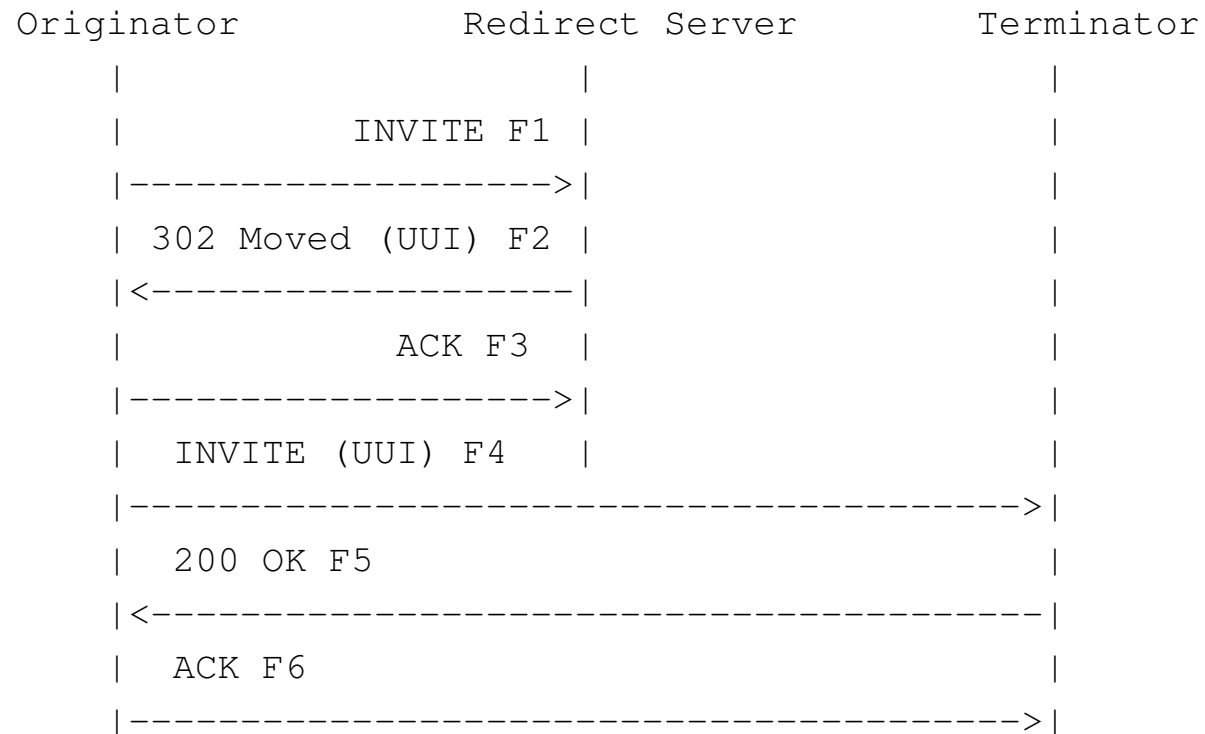


Figure 3. Call flow with UUI exchanged between Redirect Server and Terminator

# Call Flows 4

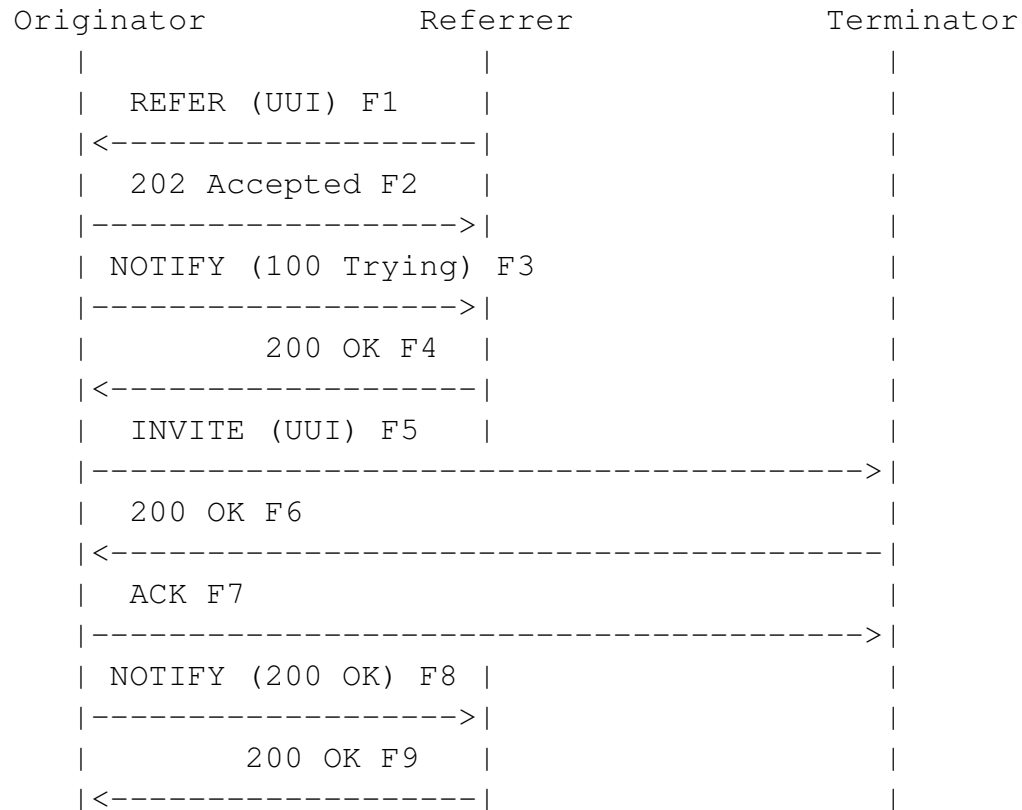


Figure 4. Call flow with transfer after answer.

# Requirements 1

- REQ-1: The mechanism will allow user agents (UAs) to insert and receive UUI data in SIP call setup requests and responses.
- REQ-2: The mechanism will allow UAs to insert and receive UUI data in SIP call teardown requests and responses.
- REQ-3: The mechanism will allow UUI to be inserted and retrieved in SIP redirects to INVITEs.
- REQ-4: The mechanism will allow UUI to be able to survive proxy retargeting.



# Requirements 2

- REQ-5: The mechanism should not require processing entities to dereference a URL to retrieve the UUI information.
- REQ-6: The mechanism will minimize reliance on SIP extensions or uncommon SIP behavior.
- REQ-7: The mechanism will support interworking with call control related ITU-T Q.931 User to User Information Element (UU IE) [Q931] and ITU-T Q.763 User to User Information Parameter [Q763].

# Requirements 3

- REQ-8: The mechanism will allow the inserter of UUI to be sure that the recipient understands the call control UUI mechanism.
- REQ-9: The mechanism will allow proxies to remove a particular type of UUI information from a request or response, or to block requests based on the presence of a particular type of UUI.

# Next Steps

- More discussions of requirements and use cases