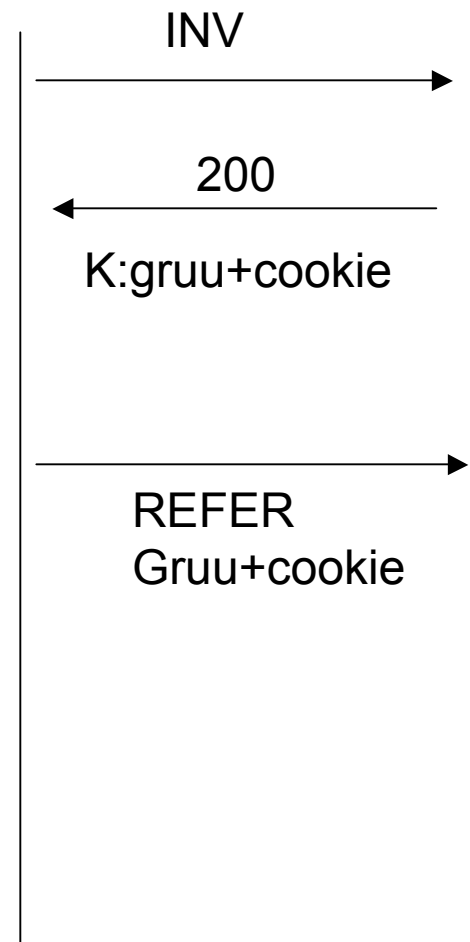


UA Loose Routing

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Problem Statement

- UA wants to add a cookie to its URI
 - AOR or GRUU
- Hand out that URI with the cookie
- When it is dereferenced, incoming request conveys cookie
- Was originally provided by grid parameter in GRUU

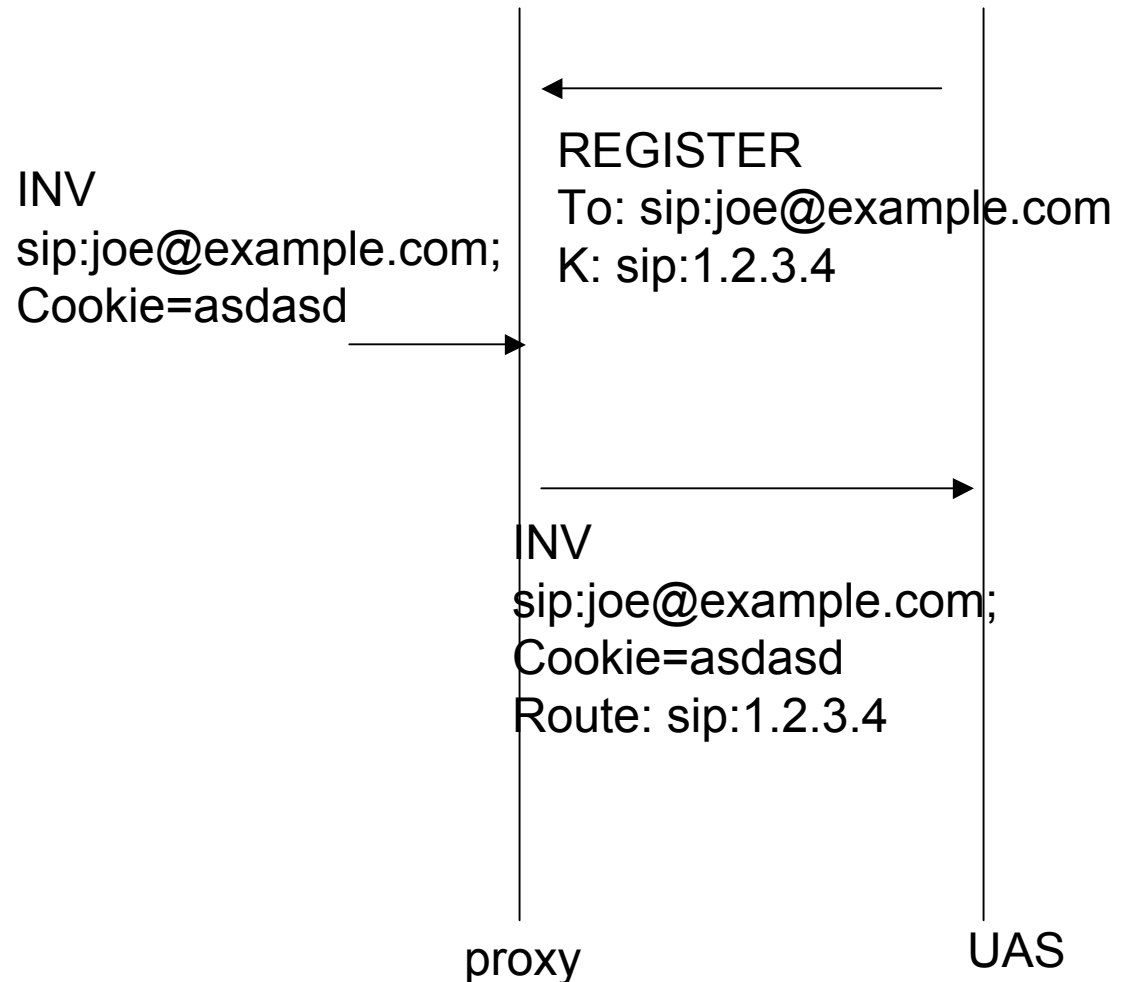


Additional Problems Solved

- Determining the Alias by which a UA is reached
- Limited Use Addresses
- Sub-Addressing
- Service Interaction
 - RFC 3087, IVR SIP, Voicemail URI
- Emergency Services Marking
- Freephone numbers

Proposed Mechanism

- Basic Idea: home proxy doesn't rewrite Request-URI, instead pushes Route with registered contact
- Preserves the original URI and any parameters



Backwards Compatibility

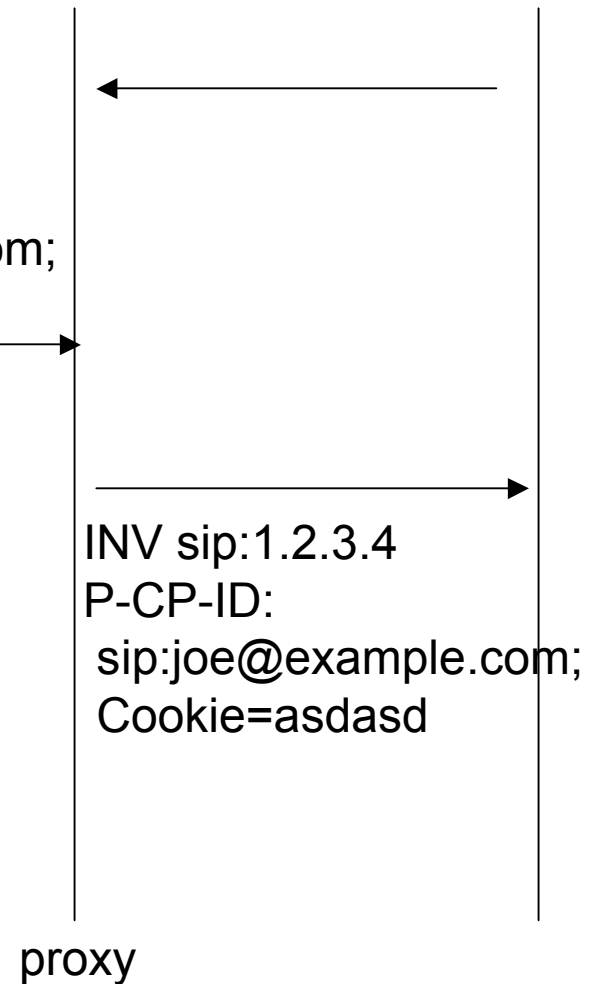
- For registrations, UA includes a Supported option tag
 - Register response has Require with token
 - Requests towards that UA utilize this mechanism
- For non-REGISTER translations
 - If target URI has ;lr parameter, proxy performs UA loose routing (e.g., ENUM entry)

Alternative Approach: P-Called-Party-ID

- Terminating proxy places R-URI into P-CP-ID header field
- Rewrites R-URI with registered contact as normal

INV

sip:joe@example.com;
Cookie=asdasd



Pros/Cons

- Both require proxy and UA support
 - With P-CP-ID, proxy can just do it and its OK if UA doesn't support
- With P-CP-ID, we end up with two header fields meaning same thing
 - RURI = next hop
 - Route = next hop
- P-CP-ID works better in non-REGISTER mappings