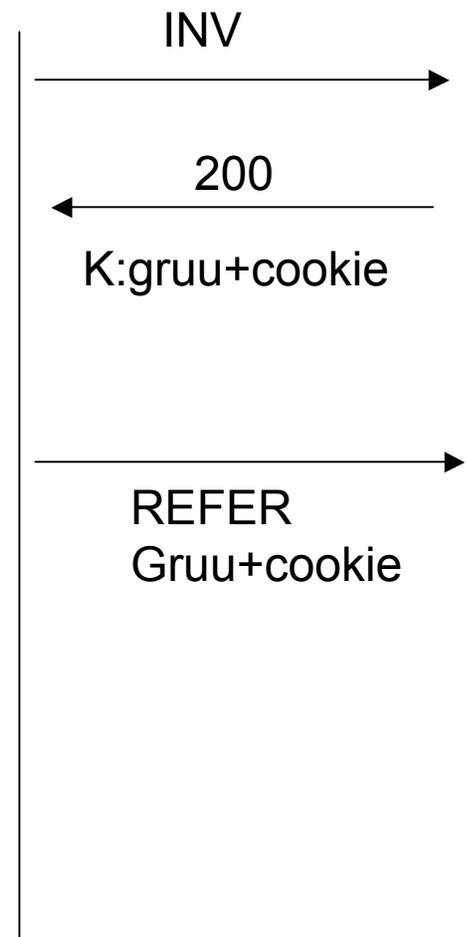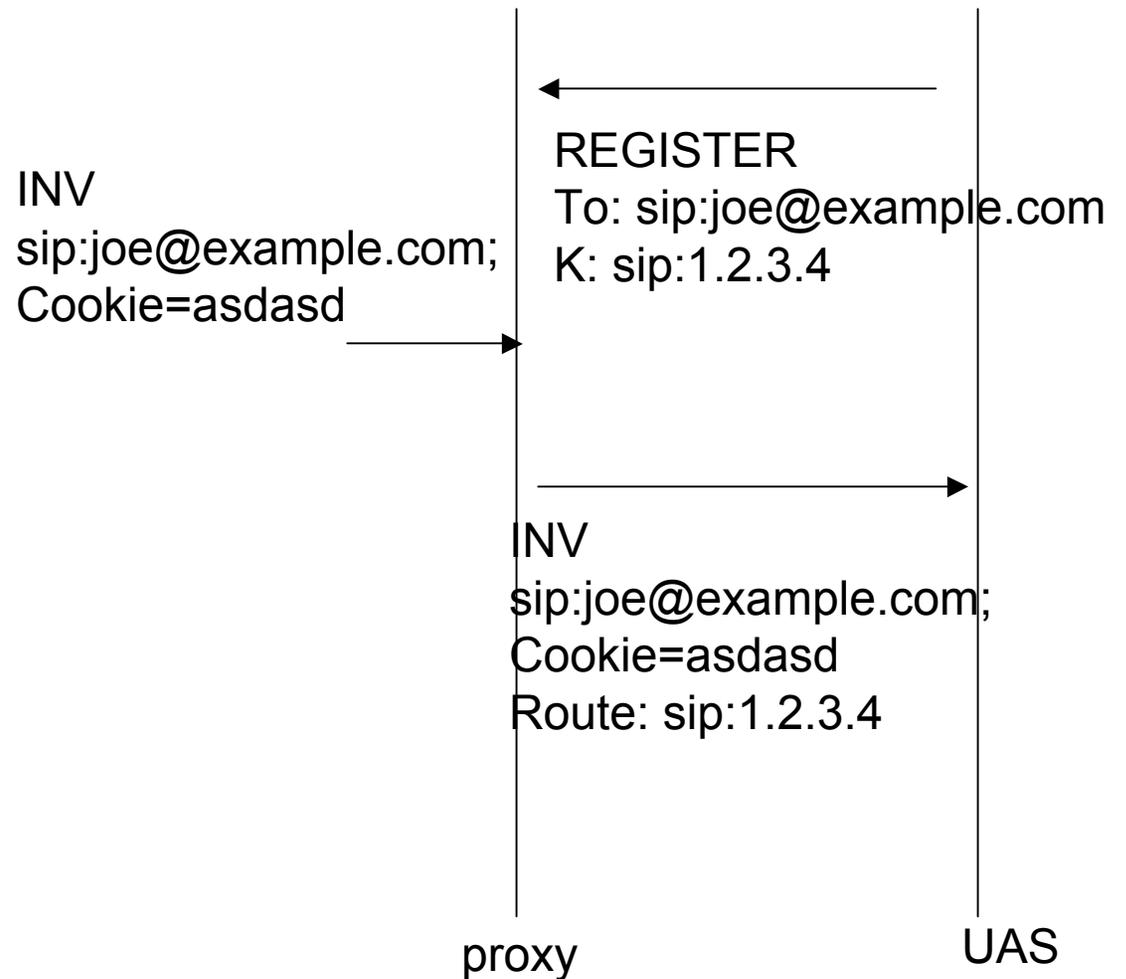# UA Loose Routing

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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

INV

200

K:gruu+cookie

REFER
Gruu+cookie

Proposed Mechanism

- Basic Idea: home proxy doesn't rewrite Request-URI, instead pushes Route with registered contact

- Preserves the original URI and any parameters

INV
sip:joe@example.com;
Cookie=asdasd

REGISTER
To: sip:joe@example.com
K: sip:1.2.3.4

INV
sip:joe@example.com;
Cookie=asdasd
Route: sip:1.2.3.4

proxy

UAS

Additional Problems Solved

- Determining the Alias by which a UA is reached
  - P-Called-Party-ID
- Limited Use Addresses
- Sub-Addressing
- Service Interaction
  - RFC 3087, IVR SIP, Voicemail URI

- Emergency Services Marking
- Freephone numbers

Issues

- Backwards compatibility
  - Draft proposes Supported/Require in REGISTER
  - Should work fine, but what about proxies?
- Redirection
  - Need to differentiate three cases
    - Recurse by R-URI modification
    - Recurse by replacing top Route
    - Recurse by appending top Route
  - Propose Via param to indicate capability and ;lr flag to differentiate cases
- Other routing services?

Questions

- Adopt as WG item?