

http://www.gruu.com



GRUU

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Top 10 Reasons why GRUU is like a Whale

- 1. Its big and heavy
- 2. It seems like its been around for a long time
- 3. It looks friendly but can swallow you whole
- 4. Kind of cute, but not really
- 5. Misunderstood

- 6. Lives a really long time
- 7. Continues to consume resources to support its huge size
- 8. Blows hot air every once in a while
- 9. Rumored to be intelligent but cannot be confirmed
- 10. Can get beached, during which it moves very little

What Happened?

- Review Team was assembled
- Many significant comments were raised
- Result was a substantial change in GRUU functionality and a sizeable rewrite of the document
- Specification got shorter (removed 5 pages) and hopefully clearer

High Level Changes

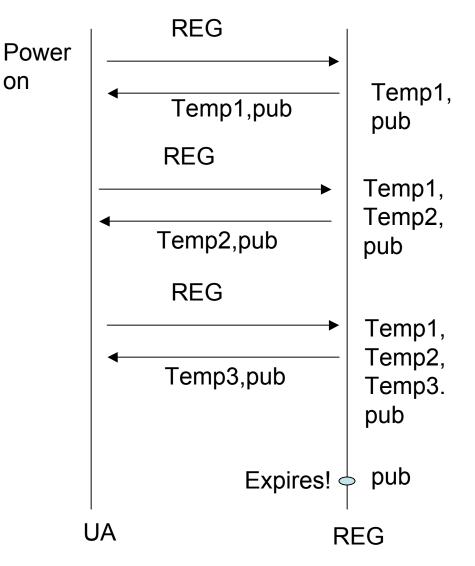
- Temporary GRUU
- Parameter Renaming
- GRID removal
- SIPS removal

Temporary GRUU Motivations

- GRUU didn't address privacy, and made RFC 3261 privacy even worse when used
- Requirements for privacy in Europe in particular would make GRUU unusable without more features
- Desire was to add just enough privacy to meet "RFC3261 equivalence"

Temporary GRUU

- Temporary and "Public" GRUU both returned in REGISTER response
- Each refresh provides a new temporary GRUU
- All accumulated temporary GRUU remain valid till registration ends
- Temporary GRUU are uncorrelateable to each other and AOR or instance ID



Notes on Temporary GRUU

- UA can remember zero, one or more temporary GRUU
- UA can use a different temporary GRUU in each call or the same one
- There is no forced invalidation mechanism
 - UA can reject incoming requests if it wants
 - UA can use other mechanism (consent framework) to ask network to block

Parameter Renaming

Old Name	New Name
"gruu" URI param	"gr"
"gruu" Contact param	"pub-gruu" and "temp- gruu"
"gruu" option tag	"gruu"

GRID Removal

- EKR observation that the general problem and mechanism was equally applicable to AOR
 - Insert a cookie into an AOR or GRUU, get it back when its de-referenced
- Viewed as a secondary requirement for GRUU
 - Endpoint conference was one motivator can actually use temporary GRUU now for that
- Proposal for mechanism in UA loose route (later)

SIPS Removal

- Whatever we have in here would be
 - Wrong in the worst case
 - Vague in the best case, in order to not conflict with sips guidelines

Other Changes

- Removed URI properties
 discussion
- New introduction by EKR
- Removed UML model
- Added "self-made" GRUU
- Originating proxy verifies GRUU in INVITE vs. identity of requestor

- Record-Routing requirements relaxed in home proxies
 - Originating: If the request has a GRUU in Contact and Record-Routes
 - Terminating: If request is to a contact that has a GRUU, and there is a Path
- Added tel URI handling
 rules

Other Changes

- Removed normative requirements on having different contact for each AOR
- Registrar rejects registration if contact equals AOR (i.e., its my GRUU)
- Added network design considerations for using GRUU

Open Issues

- Objection to the anonymous mechanism
 - No URI invalidation
 - Default lifetime too long should expire like normal
 - Temporary is a bad name
 - No need to get both should be able to ask for one or the other
- Objection to removal of GRID

GRUU and AOR
 equivalence is broken