A Mechanism for Transporting User to User Call Control Information in SIP

draft-ietf-cuss-sip-uui-02

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Recent Changes in -02

- ABNF fixes (1 slide)
- Added section on Source Identity of UUI (4 slides)
- Added section on Guidelines for Usages of the UUI Mechanism (2 slides)
- Provided advice on application media tag registration (1 slide)
- IANA registry updates (1 slide)
- Clarified URI/URL should use Call-Info
- Updated References

ABNF Changes

```
UUI         = "User-to-User" HCOLON uui-data *(SEMI uui-param)
uui-data    = token
uui-param   = enc-param / cont-param / app-param / generic-param
enc-param   = "encoding" EQUAL ("hex" / token)
cont-param  = "content" EQUAL token
app-param   = "app" EQUAL token
```

Source Identity of UUI

- Normal request
  - UUI inserted by From URI
- Normal response
  - UUI inserted by To URI
    - Unless Connected Identity RFC 4916 is used
- Redirected request
  - History-Info provides identity (next 3 slides)
- Referred request
  - Referred-By provides identity (left out of draft, will be included in next revision)

Use of History-Info

- If request was redirected, the History-Info will contain this information

- If the redirection added UUI, there will be an escaped User-to-User header field in the Targeted-to-URI field
  - The identity of the UA that inserted the UUI will be present in the previous Targeted-to-URI field
  - This is determined by looking at the index parameter

- UAs supporting UUI also support History-Info and include Supported: histinfo in all requests

History-Info Example

```
 INVITE sips:alice@example.com SIP/2.0
Via: SIP/2.0/TLS lab.example.com:5061
 ;branch=z9hG4bKnashds9
To: Bob <sips:bob@example.com>
From: Carol <sips:carol@example.com>;tag=323sf33k2
Call-ID: dfaosidfoiwe83ifkdf
Max-Forwards: 70
Contact: <sips:carol@lab.example.com>
Supported: histinfo
User-to-User: 342342ef34;encoding=hex
History-Info: <sips:bob@example.com>;index=1
<allOneLine>
History-Info: <sips:alice@example.com?Reason=SIP%3Bcause%3D302
   &User-to-User=342342ef34%3Bencoding%3Dhex>;index=1.1;rc=1
</allOneLine>
```

Carol calls Bob who redirects to Alice adding UUI

History-Info Reference

- RFC4244 will soon be obsoleted by draft-ietf-sipcore-rfc4244bis

- This draft currently normatively references RFC4244bis

- Does not depend on any of the changes from RFC4244

- Proposal: keep reference to RFC4244bis unless this appears to hold up publication of this draft.

Guidelines for App Users

- Added text from CUSS charter explaining uses and non-uses of the mechanism

- Informatively referenced ISDN Interworking usage as an example

- Additional guidelines?

Guidelines for App Users Text

Use Mechanism:

1. The information is generated and consumed by an application during session setup using SIP, but the application is not necessarily SIP aware.

2. The behavior of SIP entities that support it is not significantly changed (as discussed in Section 4 of [RFC5727]).

3. User Agent Clients (UAC) and User Agent Servers (UAS) are the generators and consumers of the UUI data. Proxies may route based on the application tag but not otherwise be involved.

4. Intermediary elements or proxies can remove or insert UUI information

Don't Use Mechanism:

1. The behavior of SIP entities that support it is significantly changed (as discussed in Section 4 of [RFC5727]).
2. The information is generated and consumed at the SIP layer by SIP elements.
3. SIP elements besides the UAC and UAS might be interested in consuming (beyond adding or removing) the information.
4. There are specific privacy issues involved with the information being transported (e.g., geolocation or emergency-related information).

More?

Media Tag Usage

- Media tags used to identify individual application users of UUI, NOT support of the UUI mechanism (header field)

- None registered by this draft

- However, should provide guidelines

- Perhaps suggest syntax?
  - E.g. sip.uui-isdn, sip.uui-app1

IANA Considerations

- Draft includes IANA registrations to register new header field (User-to-User) and new header field parameters (app, content, encoding)

- Probably we need to create a new registry for values of these parameters

Next Steps

- More review and list discussion
- Finalize IANA registries
- WGLC soon!