

Martini Recipes for Registration

draft-kaplan-martini-shaken-implicit-registrations-00

draft-kaplan-martini-stirred-domain-registration-00



Why REGISTER?

1. We need the other things REGISTER already has:
 - Path, sip-outbound, Service-Route, PAU
2. It's easier?
 - Yes it's only a method name string, but I bet there's a lot more code dependency on method type name than there is on new header/params
3. We *are* actually “registering” reachability info for an AoR (but also other AoRs)

Recipe #1: Implicit-Registration

- One mutually agreed-upon AoR is Registered, with new indicator that this is implicit-reg
 - AoR is in SSP's domain
- Routing requests is loose-route model
 - Registered contact/Path inserted as Route headers, req-uri left alone
- Similar to current 3GPP/ETSI/CableLabs models

Example implicit-reg

```
REGISTER sip:ssp.example.net SIP/2.0
Via: SIP/2.0/UDP 192.0.2.4:6000;branch=z9hG4bKnashds7
To: <sip:pbx1234@ssp.example.net>;multi=true
From: <sip:pbx1234@ssp.example.net>;tag=456248
Call-ID: 843817637684230
CSeq: 1826 REGISTER
Contact: <sip:pbx-100@192.0.2.4:6000;lr>;expires=3600
Require: implicit
. . .
```

```
INVITE sip:pbx1234@corp.ssp.example.net;user=phone SIP/2.0
Via: SIP/2.0/UDP 112.68.155.4:5060;branch=z9hG4bK34ghi7ab04
Route: <sip:pbx-100@192.0.2.4:6000;lr>
To: <sip:pbx1234@ssp.example.net;user=phone>
From: UA2 <sip:UA2@example.org>;tag=224497
Call-ID: 48273181116
CSeq: 29 INVITE
Contact: <sip:UA2@71.91.180.10>
. . .
```

Recipe #2: Domain-reg

- An actual “Domain” is Registered
- Domain-A is notifying Domain-B of its reachability info for SIP requests for its domain
 - Updates new logical Domain Reg Table
 - Table is checked when routing

Example domain-reg

```
REGISTER sip:ssp.example.net SIP/2.0
Via: SIP/2.0/UDP 192.0.2.4:6000;branch=z9hG4bKnashds7
To: <sip:pbx1234@corp.ssp.example.net>
From: <sip:pbx1234@corp.ssp.example.net>;tag=456248
Call-ID: 843817637684230
CSeq: 1826 REGISTER
Contact: <sip:pbx-100@192.0.2.4:6000>;expires=3600
Require: dreg
. . .
```

```
INVITE sip:+12125551212@corp.ssp.example.net;user=phone SIP/2.0
Via: SIP/2.0/UDP 112.68.155.4:5060;branch=z9hG4bK34ghi7ab04
Route: <sip:pbx-100@192.0.2.4:6000;lr>
To: <sip:+12125551212@ssp.example.net;user=phone>
From: UA2 <sip:UA2@example.org>;tag=224497
Call-ID: 48273181116
CSeq: 29 INVITE
Contact: <sip:UA2@71.91.180.10>
. . .
```

Which recipe is best?



(too obvious?)

Open Issues

- What to do about indicating the “other” AoRs?
 - Option-1: ignore it for now
 - Option-2: use PAU in response, with wildcarding
 - Option-3: use PAU in request (+response?)
 - Option-4: use SUB/NOT/PUB for the list of AoRs?

Open Issues (cont.)

- What to do about req-uri host portion
 - It will be the SSP's domain – ok?
 - Or should we replace with registered contact domain/host?