

SIP Caller Preferences

Jonathan Rosenberg

dynamicsoft

Summary

- **Caller preferences allows caller to specify call features**

- Defines rules for desired UAS

- mobile, home, video-enabled,...
- extensible set

- Defines request handling features

- no-forking, redirect,...

- Allows UAS to register characteristics of URLs

- Proxy does a matching operation

```
INVITE sip:jdrosen@dynamicsoft.com SIP/2.0
From: sip:kbeall@dynamicsoft.com
To: sip:jdrosen@alum.mit.edu
Call-ID: 08shdihasdo@111.222.33.444
Via: SIP/2.0/UDP host.dynamicsoft.com
Accept-Contact: *;mobility="fixed;media="!video"
Request-Disposition: parallel, recurse
Reject-Contact: sip:jdrosen@cs.columbia.edu,
                *;class="business"
```

Changes since last version

- **Changed options tag to org.ietf.rfc.XXX**
- **Added no-ring request-disposition**
 - Operator barge in
 - mid-call tones and announcements
 - “please insert another 35 cents to continue”
 - Obviously must be authenticated
- **Added numeric service tag**
 - used for numeric pagers
- **Some discussion on CPL interaction**
 - Current spec defines proxy rules for merging caller prefs and callee capabilities
 - These rules are logic
 - CPL might replace these rules

Open Issues

- **Relationship with CPL**

- Do callee capabilities constitute logic?
 - Use CPL instead
- Do callee capabilities constitute data?
 - CPL specifies what to do based on caller prefs and callee capabilities
- How do caller prefs fit into CPL?
 - Caller prefs “logic” executes at certain points during CPL?

- **How to reconcile inconsistent features?**

- Caller wants to proxy only, callee CPL wants to redirect?
- Feature interaction problem...
- Proposal:
 - Let proxies decide on how to reconcile
 - View caller prefs and CPL as desired call handling, not mandatory

Open Issues

- **Syntax for Capabilities**
 - Perhaps conneg instead of this?
 - How to we transport it?
 - Is it more than we need?
 - May make feature interaction even more complex...
- **Additional capabilities in baseline spec**
 - codecs? (no)
 - suggestions....
- **Need IANA procedure for registering new capabilities**