

Rich presence: RPID, CIPID, future-presence

[draft-ietf-simple-rpid](#)
[draft-ietf-simple-cipid](#)
[draft-ietf-simple-future](#)

Henning Schulzrinne
Columbia University

with V. Gurbani, P. Kyzivat, J. Rosenberg

Issues

- Changes since last IETF
- Open issues
 - RPID: none
 - CIPID: <card>
 - future-status: model, past only?

Changes since last IETF

- Split into three documents:
 - RPID: <activity>, <class>, <contact-type>, <idle>, <placetype>, <privacy>, <relationship>, <sphere>
 - CIPID: <card>, <homepage>, <icon>, <map>*
 - future-status
- Changed <idle>*
 - <idle since="2004-02-28T18:02:15Z"/>
- Finalized 'since' and 'until' mechanism for RPID
 - describes validity of elements
 - must bracket tuple timestamp (present)
- Updated schemas*



CIPID: <card> vs. <homepage>

- <card> contains URL to vCard or LDIF
- vCard contains homepage URL (`url:`)
- duplicates <homepage> element
 - but not all <card> elements may allow this
- awkward if only the homepage is to be conveyed
 - need data: URL with lots of syntactical noise
- recommendation: **leave both since possible duplication is harmless**



CIPID: by value or by reference

- Currently, only reference to vCard or LDIF record
- Can include by value using data: URL or MIME URLs (mid:)
- MIME URLs are awkward since they require that CPIM message is multipart-MIME capable – specified?
- But reference more bandwidth-friendly if repeated in each NOTIFY
 - CPIM model seems to favor full state
 - can use partial updates to avoid problem



CIPID: by value or by reference

- Solution 0:

- make do with data: and mid:

- Solution 1:

- `<card type="text/url">http://foo.com</card>`

- Solution 2:

- `<cardurl>http://foo.com</cardurl>`

- `<card type="MIME type">vcard or LDIF data</card>`

future-status*

- RPID can indicate time ranges, but must be valid at <timestamp> (~ present)
 - otherwise, plain PIDF implementations would misinterpret historical or future status as present status
- Useful to have a separate mechanism to indicate predicted presence value
 - e.g., from calendar information or sensor
 - allows watcher to plan communication
 - allows coordination: “when is everyone likely to be available in the next few hours?”

future-status

```
<future-status from="2004-08-15T10:20:00"  
until="2004-08-16T08:19:00">  
  <basic>closed</basic>  
  {all other PIDF and RPID elements}  
</future-status>
```

- Should we add <past-status> or allow <future-status> to handle this? **Yes**
- Useful if only old information is available, but it's better than no information
 - “was on AA167 until three hours ago”



Conclusion

- Believed to be ready for WG last call after one more round
 - but may need to define semantic policy rules for RPID, CIPID and future-status
- Current solutions for open issues are workable and we could add suggestions later
 - <past-status>
 - <card> value