PSIs for Versioning

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problem

- duplicated data may be edited simultaneously

- example: address book
    - copy in the mobile phone
    - copy in the desktop computer
    - copy in the corporate LDAP directory

- syncing is a nightmare in practice
    - duplicated entries, new data overwritten by old data,
    - 2 changes collide, which change is correct?

TopicMappish solution?

- Why not simply merge on sync?

- But then: deleted data reappears due to merging

- That's no problem, if we can annotate the deleted data as deleted

solution?

- xuan
  phonenumber: "+41 76 2169639" ~ asrt0
- valid(what: asrt0, state: entered, since: date20070619)
- valid(what: asrt0, state: deleted, since: date20070922)

- An assertion is invalid if

  - it has only a „deleted" state and no „entered" state or

  - its most recent „deleted" state is newer than its most recent „entered" state

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Conclusion

- „add only" paradigm in Personal Information Management application

- unwanted data gets only „deprecated", not really deleted

- So what about standardizing this way to access things?