



jubik
knowledge everywhere



Replication of Published Subject Indicators as thesaurus by means of LDAP

Thomas Schwotzer
thsc@cs.tu-berlin.de
thomas.schwotzer@jubik.de

Agnes Cebulla
mail@agnes-cebulla.de



Topics

- Mobile distributed Topic Map Engines
- Issue: Shared vocabulary
- Thesaurus
- LDAP
- Distributed Thesaurus with LDAP
- LDAP goes Topic Maps
- Short demonstration



Mobile distributed applications

- Application consisting of co-operating components
- Some components are mobile, e.g. running on notenbooks, mobile phones etc.
- Can establish spontaneous networks, e.g. based on Bluetooth
- Special interest in mobile Topic Map Engines



Impacts

- Distribution: Shared vocabulary required
- Mobility: components are not always online
 - UMTS, GPRS etc. are not a solution, they cost money!
- Requires: **Autonomy**
 - Shared and (partly) replicated vocabulary

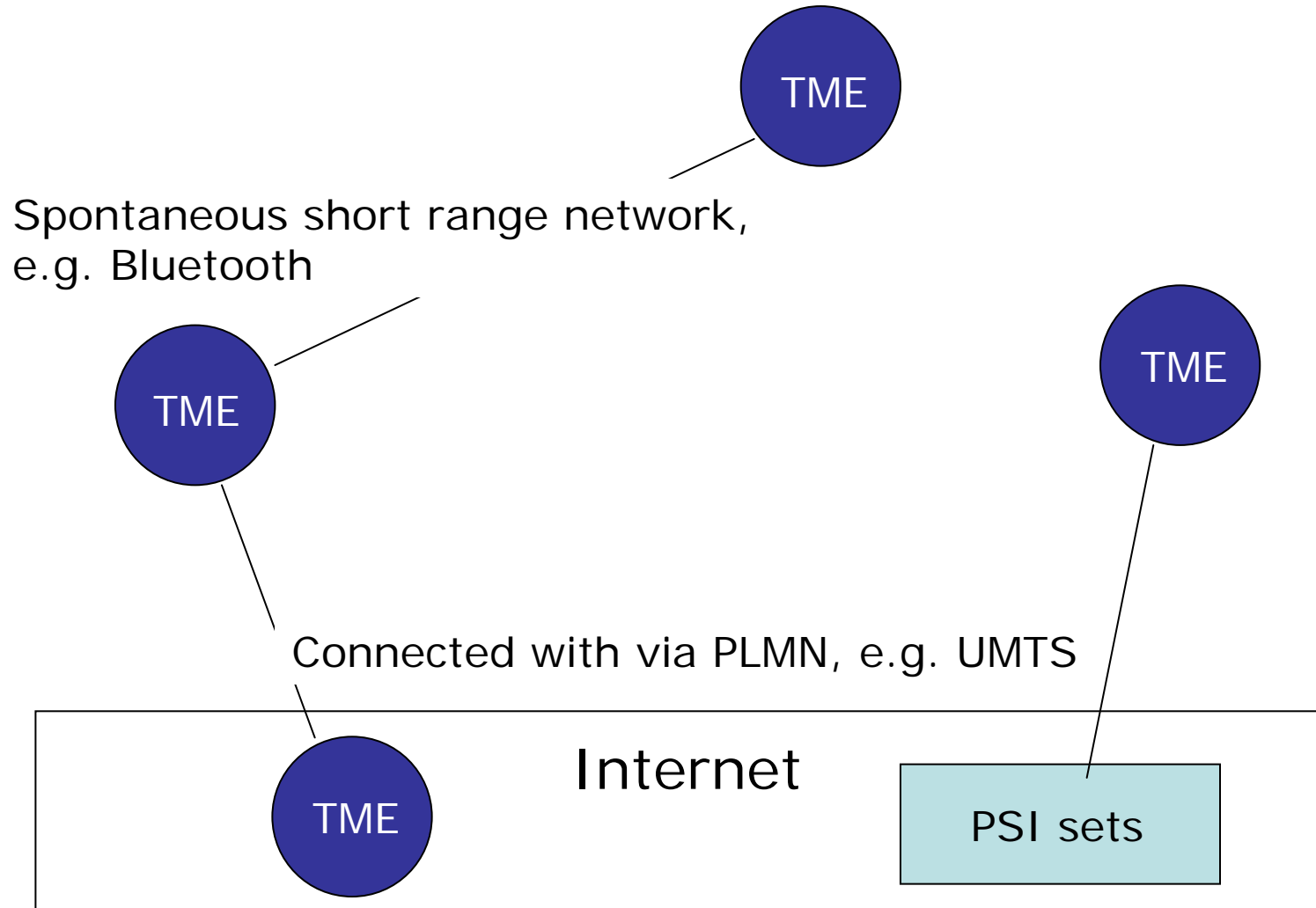


PSI

- Topic Maps way to provide a shared vocabulary
- No distribution platform for shared PSI sets

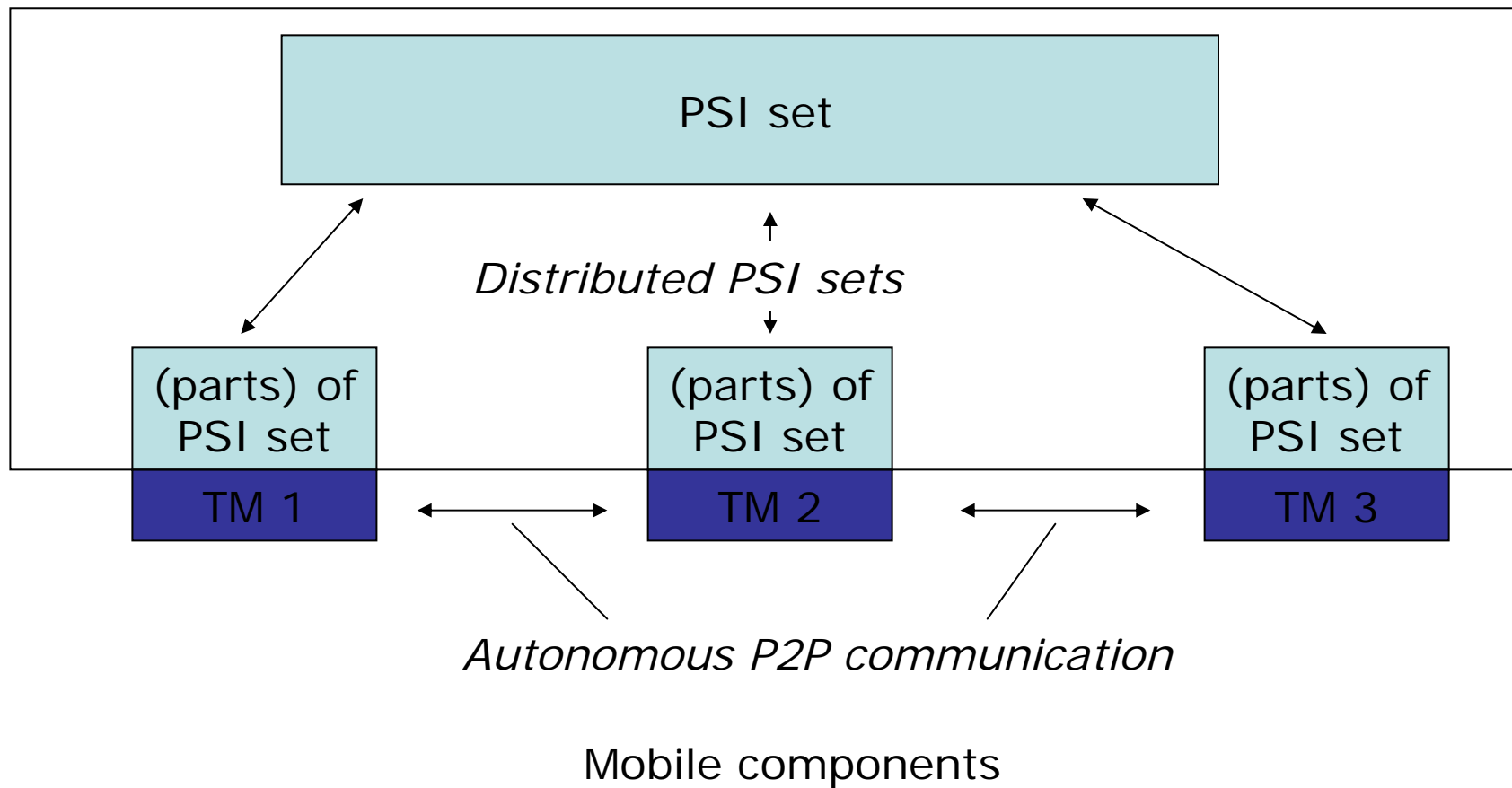


status: centralised PSI set





Wish: Distributed PSI sets





Thesaurus

- controlled shared vocabulary
- not distributed per se
- several thesauri available



LDAP

- hierarchical directory service
- New schemas can be defined
- Replication and decentralised administration possible

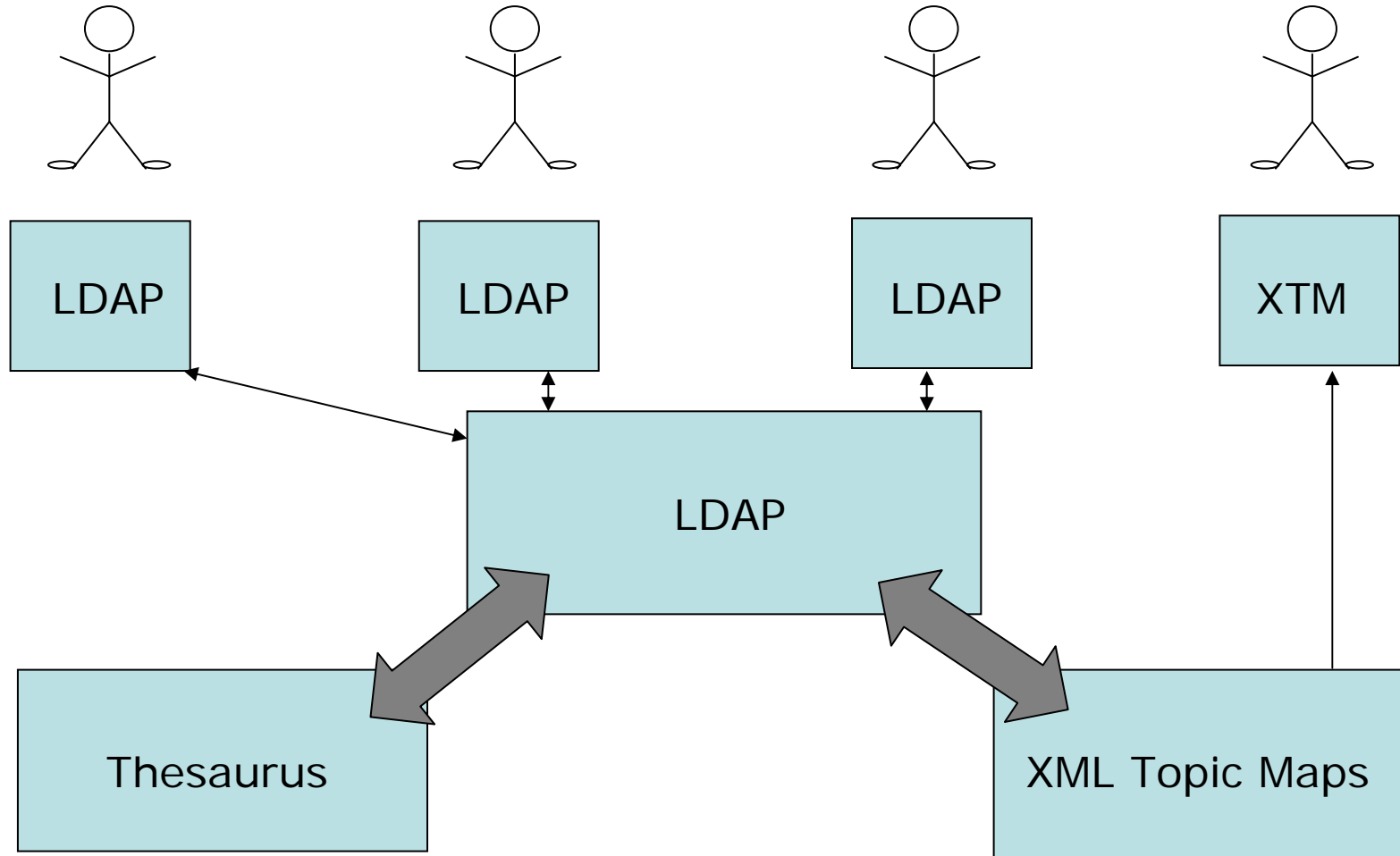


The idea

- Use LDAP as distribution platform for thesauri
- Make LDAP entries available as PSIs
- Allow export and import of PSI set from and into this system



Three system for distributed PSIs





What had to be done

- LDAP schema compatible with thesaurus
- Import thesaurus into LDAP
- Export tools LDAP -> XTM
- Import tools XTM -> LDAP
 - Only works with constraints on the “XTM-thesaurus”



Demonstration

- OpenLDAP
- Jxplorer (LDAP browser)
- Our application via WWW front-end
- TMNav to browse PSI set



Thank you for listening!
Questions?