DFN–Project AMBIX

from history to future

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"History"

- *Betrieb und Betreuung der deutschen Directoryinfrastruktur* (TU Chemnitz)
  - operation of the German master DSA (Puma)
  - support for other DSA operator
- *AMBIX (Aufnahme von Mail–Benutzer in das X.500 Directory)* (Universität Tübingen)
  - maintenance of a German email directory (DFN and other research organisations)
  - white and yellow pages
  - easy to use interface, simple access control (TWEB)
  - consider legal issues

Starting position – AMBIX

- legal position unclear (1992/93)
- small amount of data (cf. earlier projects, e.g. VERDI, . . .)
- poor accuracy of data
- complexity of X.500 ⇒ limits readiness to operate a DSA

Legal issues (problems and solution)

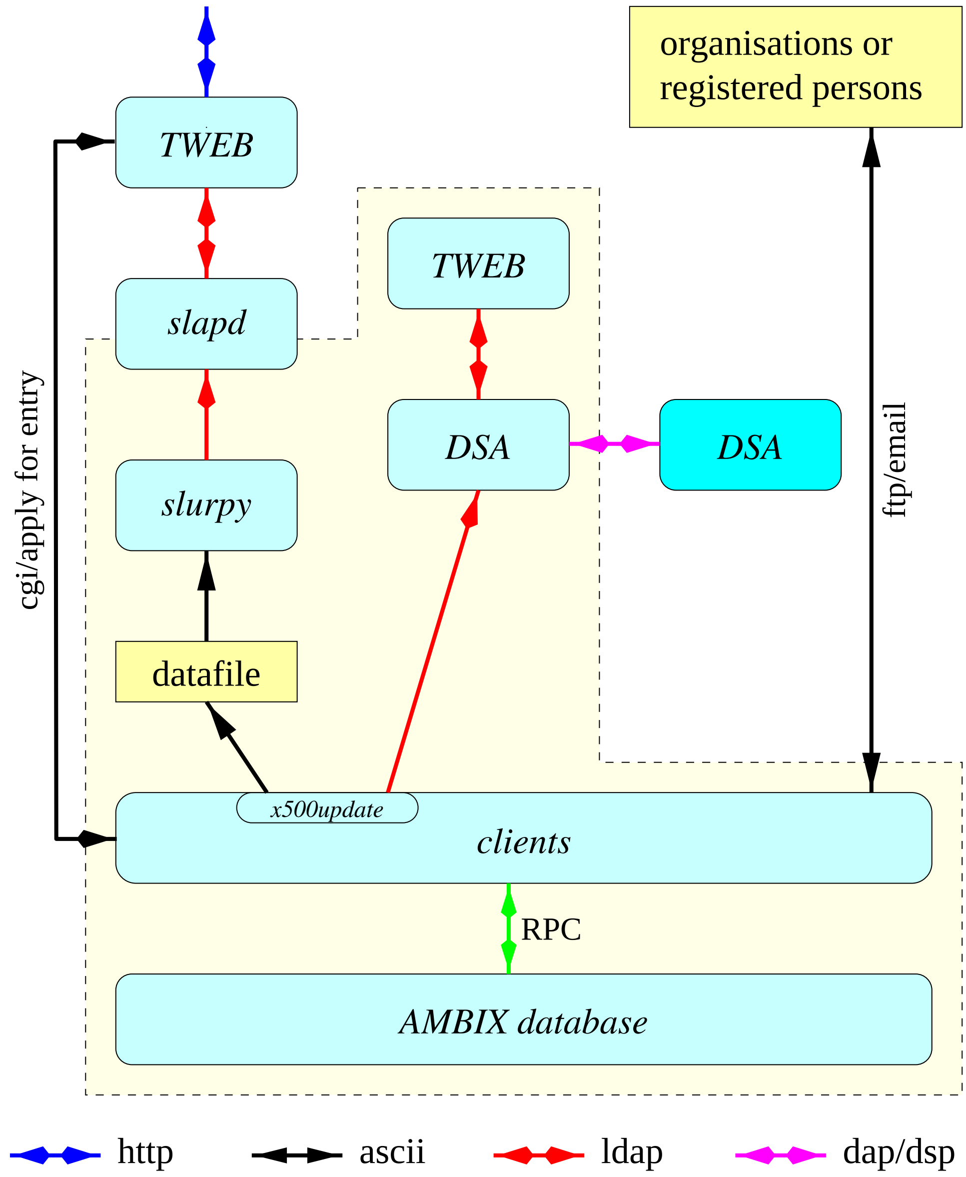
- conflict of interests: directory ⇔ protection of personal data
- storing personal data ⇒ obey laws on privacy issues
- Germany: 16 federal states ⇒ 16 + 1 privacy laws
- WHICH one to use???
- DFN society: expertise on privacy issues*

*ftp://ftp.directory.dfn.de/pub/Expertise.ps.Z

AMBIX directives

- DFN is a national society ⇒ national law on privacy issues (BDSG) will be applicable
- purpose of the directory: simplify communication
- solution based on contradiction (6 weeks)
- limit to minimal set of personal data
- initially inform people about
  - data transfer
  - Rights
- restrict data transfer to "allowed" countries (EC, USA and Canada)
- access to personal data only via TWEB

AMBIX machine



AMBIX data

source of data

- participating organisations (ftp, email)
- persons (WWW–Selbsteintrag, email)

statistics*

- 116 organisations (37 participate active)
- 4.400 organisational unit entries
- 36.600 person entries
- 30.000 to 40.000 requests per week (TWEB)

*Jan. 1999

"Present & Future"

- *Directory–Kompetenzzentrum* (Universität Tübingen)
- operate the German master DSA (Puma)
- increase the amount of data (AMBIX)
- setup a "German index system"
- setup a certificate server (PGP, PEM, SSL and S/MIME; DFN–PCA, Universität Hamburg)
- evaluate several directory products on various operating system

Addresses

- WWW–Homepage:
  `http://www.directory.dfn.de/`

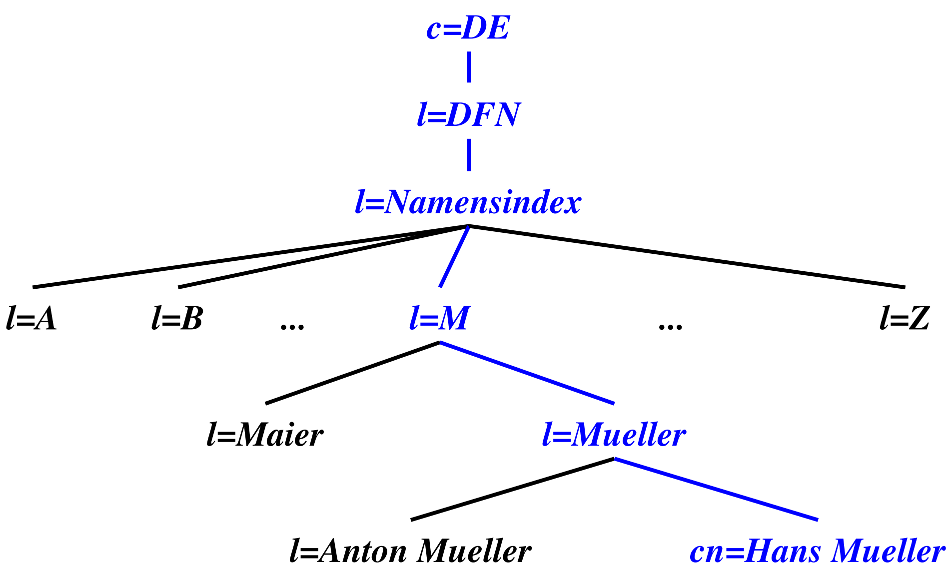
- presentation address, German master DSA (cn=Puma):
  `'0101'H/Internet=134.2.217.132+17023`‡

- address TWEB:
  c=DE : `http://puma-relay.directory.dfn.de:8901/`
  AMBIX : `http://ambix.directory.dfn.de:8889/`

- email:
  Puma : `puma-dsmanager@directory.dfn.de`
  AMBIX : `ambix-d@directory.dfn.de`

‡valid on January 25, 1999, 10:00 am

Appendix: index



format of an entry

dn: cn=Hans Mueller,l=Mueller,l=M,l=Namensindex,l=DFN,c=DE

[. . .]

```
labeledURI: http://ambix.directory.dfn.de:8889/cn=Hans␣Mueller,
             o=AMBIX,l=DFN,c=DE AMBIX
labeledURI: http://ambix.directory.dfn.de:8889/Mcn=Hans␣Mueller,
             ou=Physik,o=Univ.␣Xyz,l=DFN,c=DE Univ. Xyz
```

␣ $\mapsto$ %20