Data−Driven Web−X.500−Gateway Operation

− Gateway−Switching and Dynamic Re−Configuration −

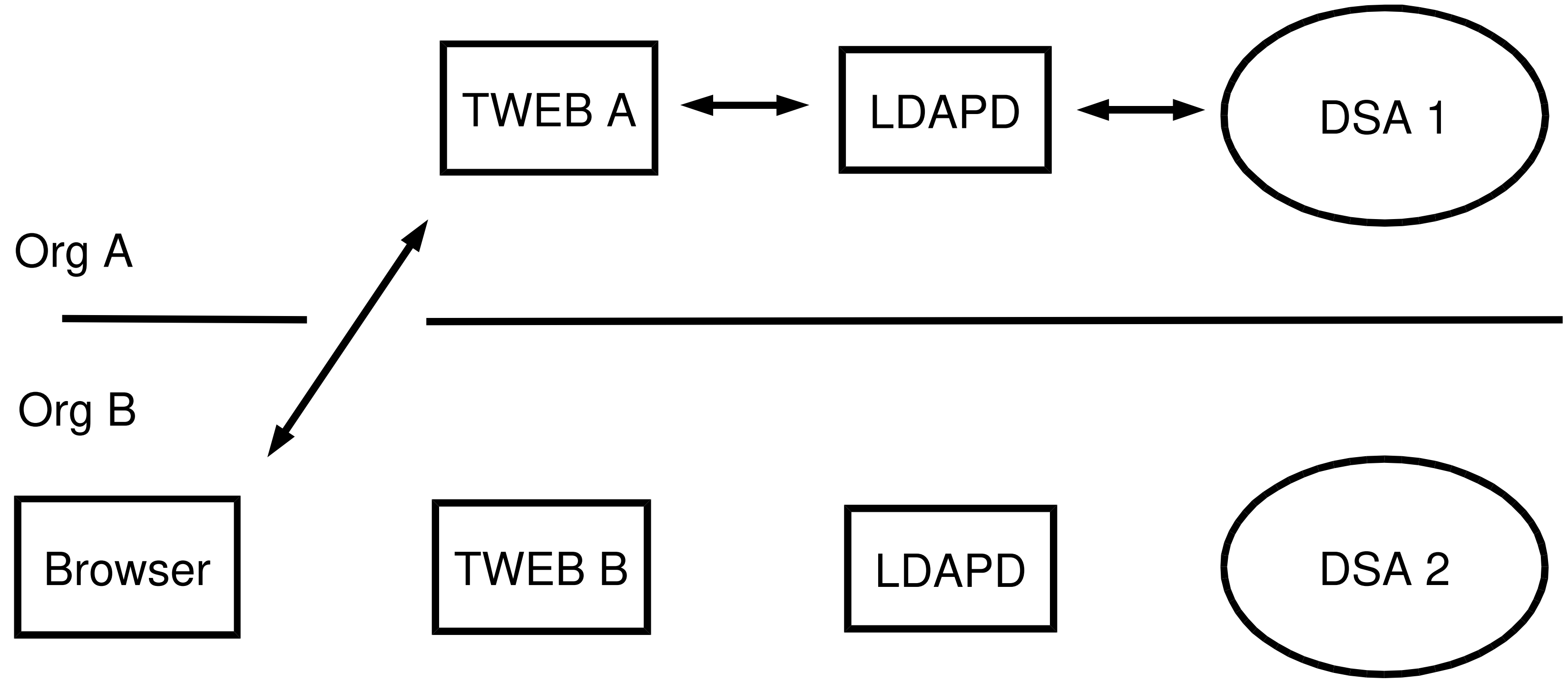
Kurt Spanier, Zentrum für Datenverarbeitung, Universität Tübingen

Kurt.spanier@zdv.uni−tuebingen.de

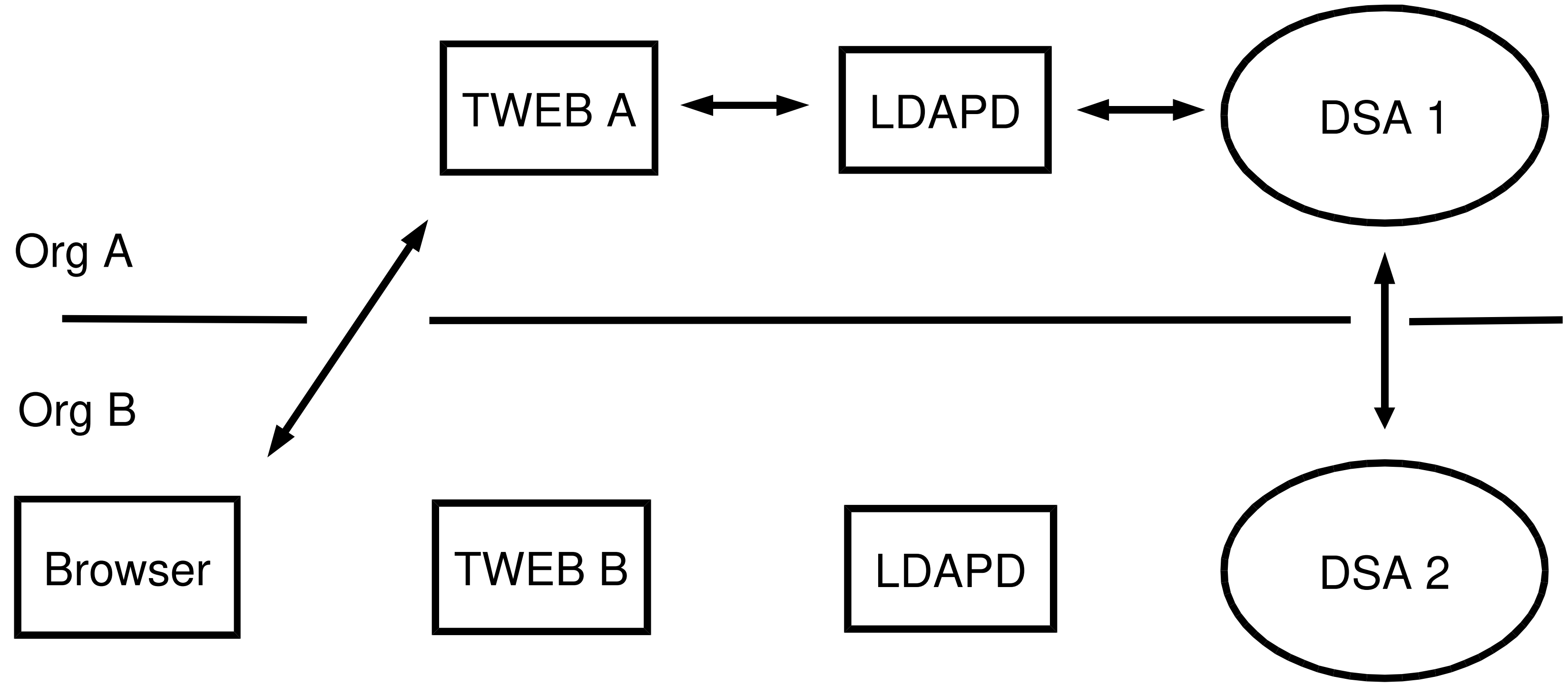
TWEB – Highlights

- Based on web500gw by Frank Richter, Chemnitz
- Extensive configuration options
- Access control and security functions
- Multiple–language support
- Corporate Identity
- Static and dynamic gateway–switching
- Dynamic re–configuration of display parameters

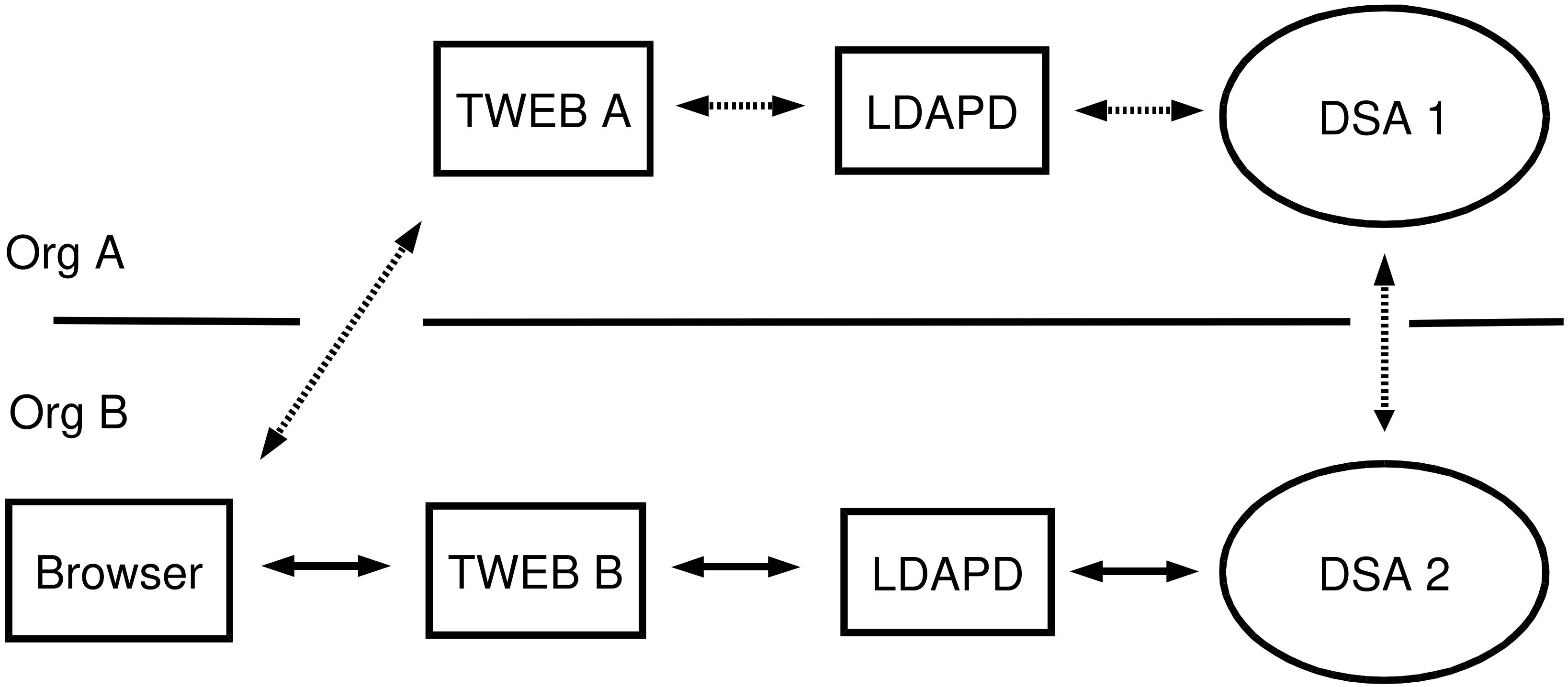
TWEB Gateway–Switching in Principle I



TWEB Gateway–Switching in Principle II



TWEB Gateway–Switching in Principle III



Static Gateway–Switching

- Static gateway–switching based on configuration files

GW–SWITCH	»ROOT«	http://x500–relay.uni–tuebingen.de:8901/ M
	»c=DE«	http://x500–relay.uni–tuebingen.de:8911/
	»l=DFN, c=DE«	http://ambix.directory.dfn.de:8889/

Dynamic Gateway–Switching

- Dynamic gateway–switching based on X.500 data

X.500 entry »l=*DFN, c=DE*«:

labeledURI= http://ambix.directory.dfn.de:8889/ AMBIX (gw–de)

labeledURI= http://ambix.directory.dfn.de:8890/ AMBIX (gw–en)

Advantages of Gateway–Switching

- Reduction of network traffic
- Faster response times
- Load balancing
- Release of ressources bound to external data lookup
- Organization–specific access policies
- Corporate Identity

Sorting and Displaying Entries

- TWEB's SORT configuration parameter defines classification of entries and display types

```
SORT  toc_faculty Faculty          5     org tat_sort
      toc_cent    »Central facility« 2 org tat_sort
      organizationalUnit  Unit 15     org
      ...
      toc_profs   Professors      29    pers
      person      Staff           30    pers
```

Dynamic Reconfiguration of Display Parameters

- SORT can be re–configured dynamically by tweb_sorting X.500 entries
- Display of entries can be re–configured dynamically by tweb_display_<TYPE> X.500 entries

TWEB Distribution

- TWEB via FTP

  ftp://ftp–x500.uni–tuebingen.de/tweb/tweb.tar.Z

  ftp://ftp–x500.uni–tuebingen.de/tweb/tweb.tgz

- Support mailing list

  tweb–support@mail500.uni–tuebingen.de