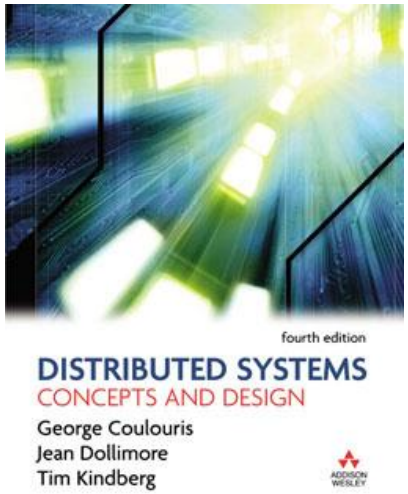
Slides for Chapter 9: Name Services



From **Coulouris, Dollimore and Kindberg**

Distributed Systems: Concepts and Design

Figure 9.1
Composed naming domains used to access a resource from a UR

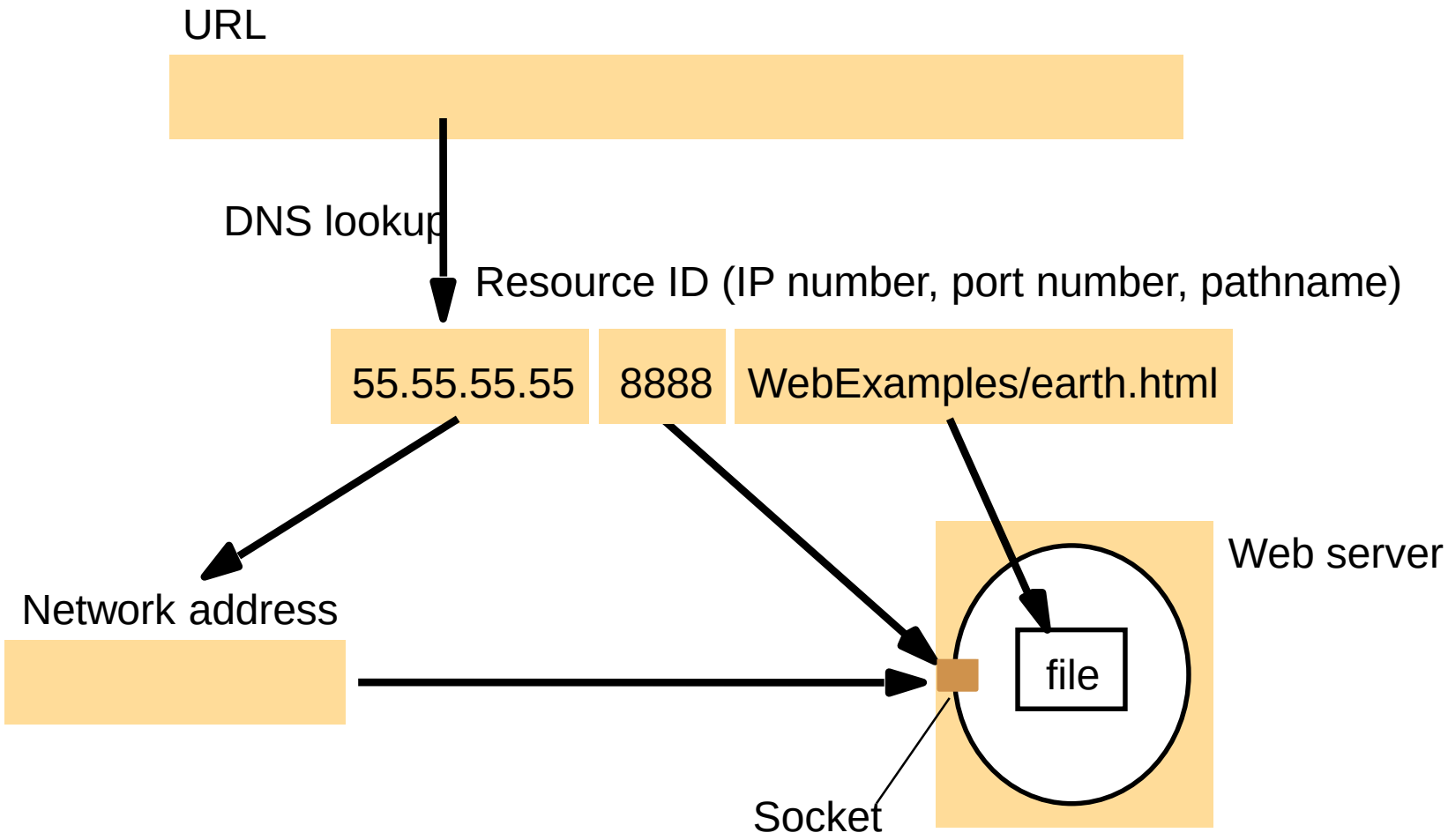
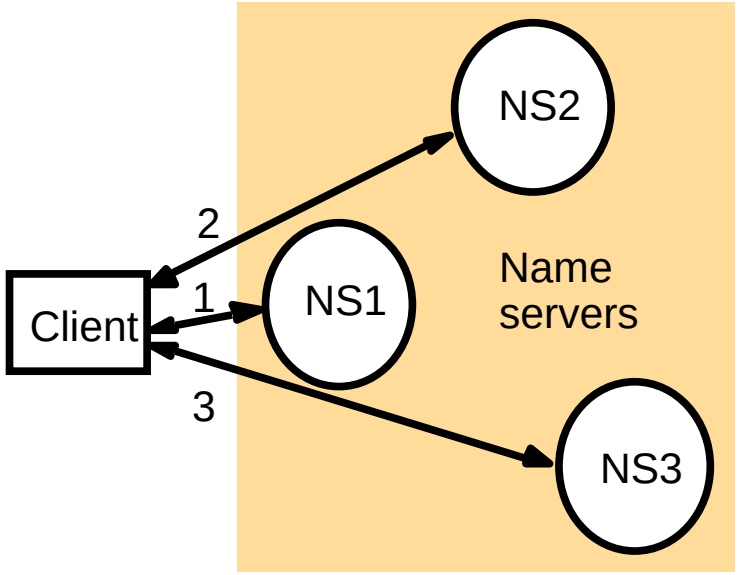
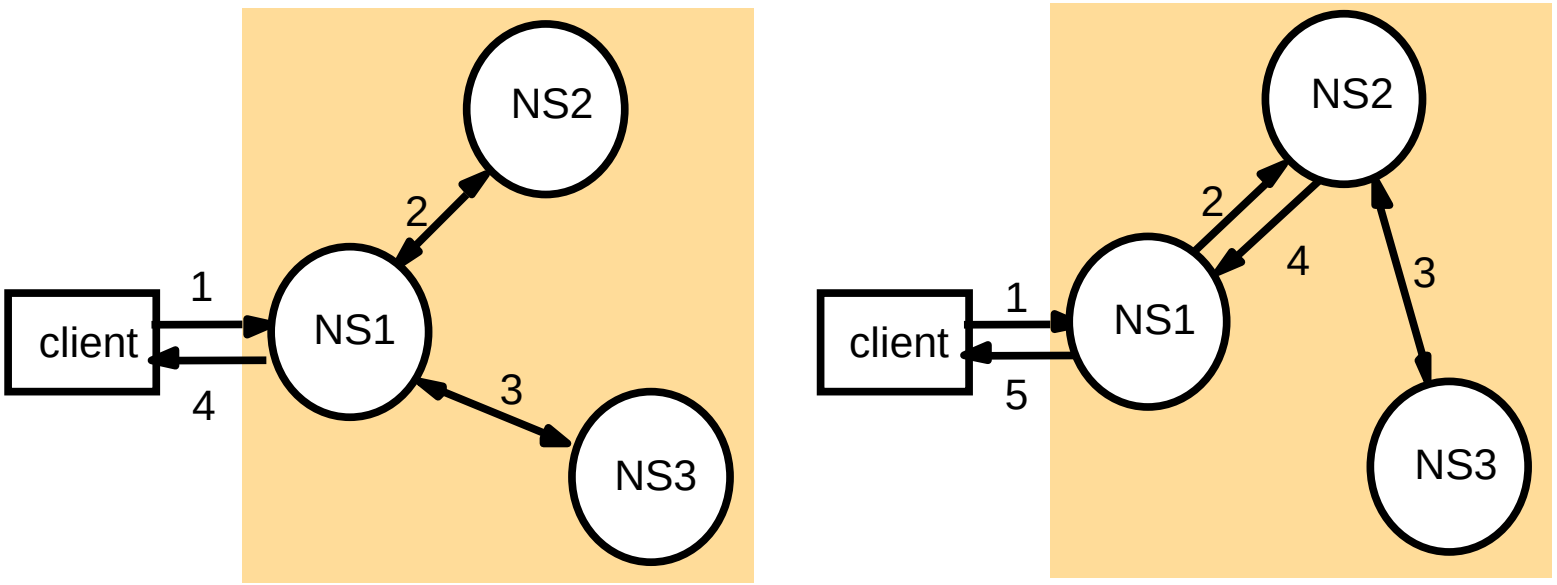


Figure 9.2
Iterative navigation



A client iteratively contacts name servers NS1–NS3 in order to resolve a name

Figure 9.3
Non-recursive and recursive server-controlled navigation



Non-recursive server-controlled

Recursive server-controlled

A name server NS1 communicates with other name servers on behalf of a client

Figure 9.4
DNS name servers

Note: Name server names are in italics, and the corresponding domains are in parentheses.

Arrows denote name server entries

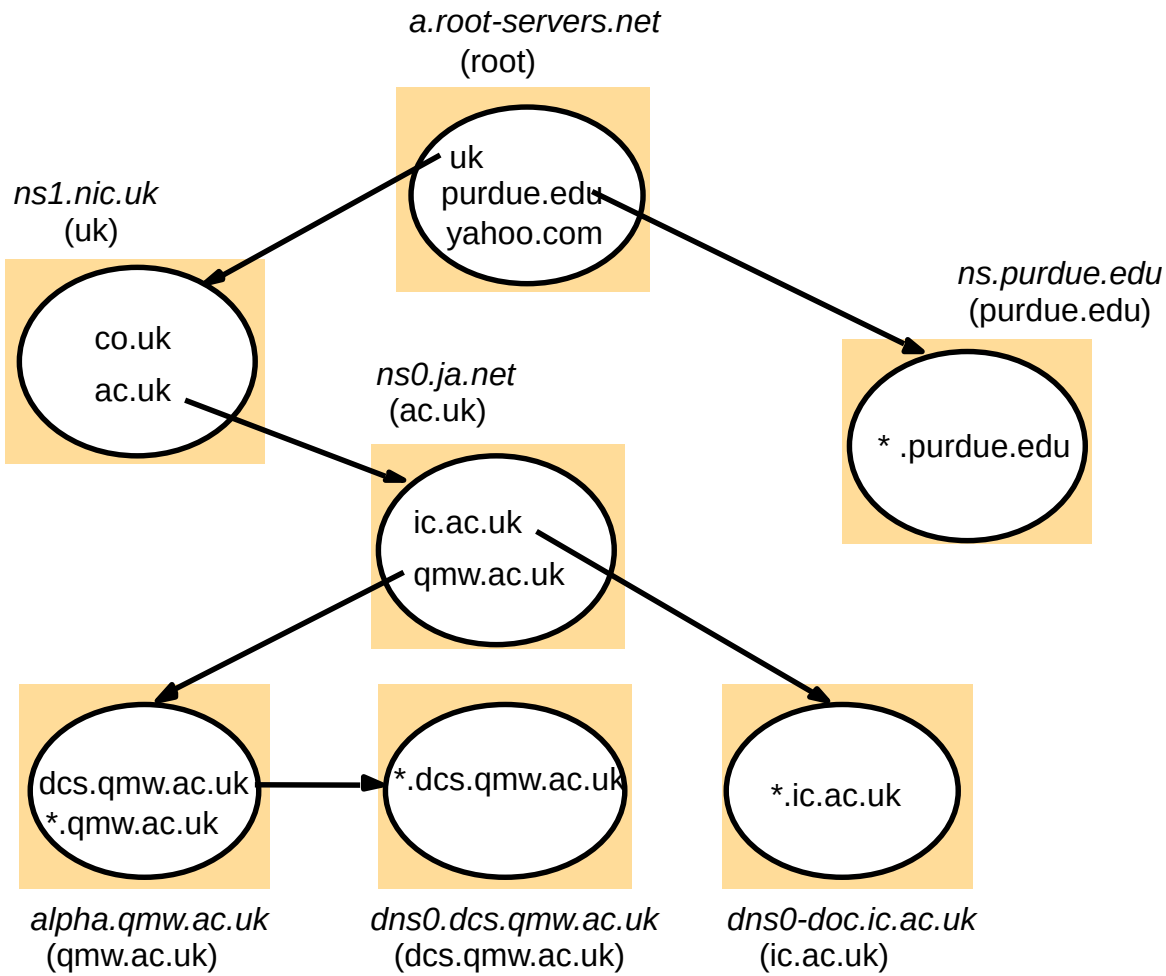


Figure 9.7
GNS directory tree and value tree for user Peter.Smith

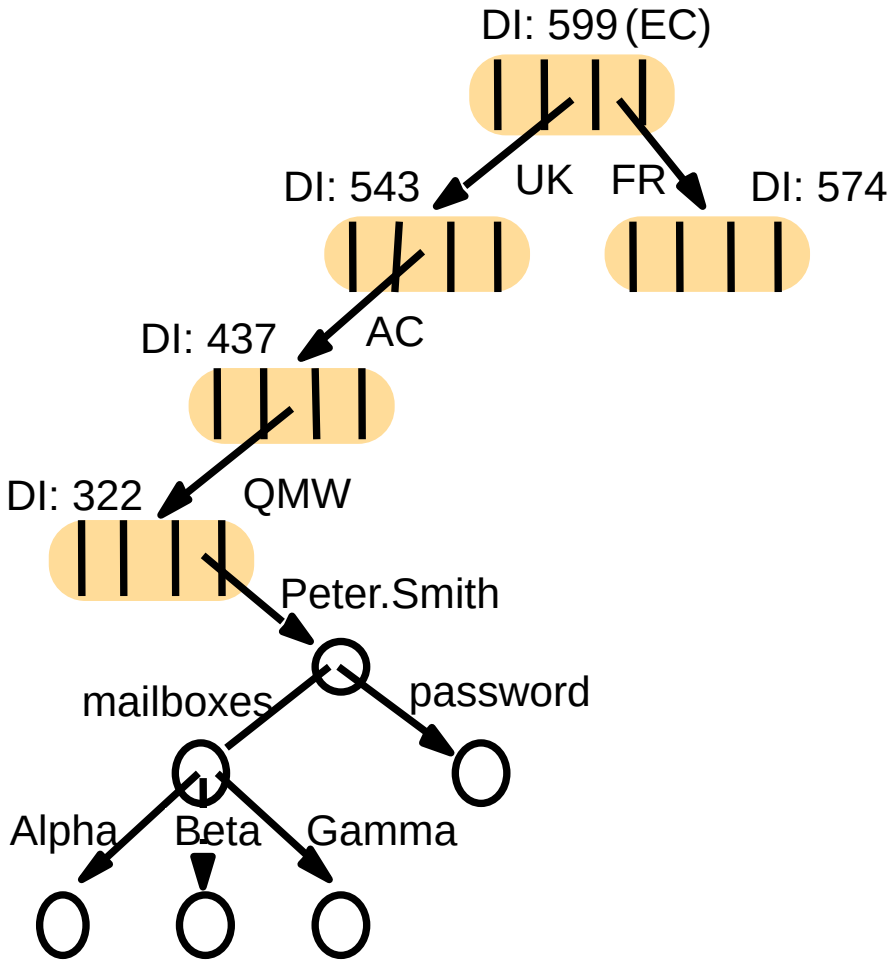


Figure 9.8
Merging trees under a new root

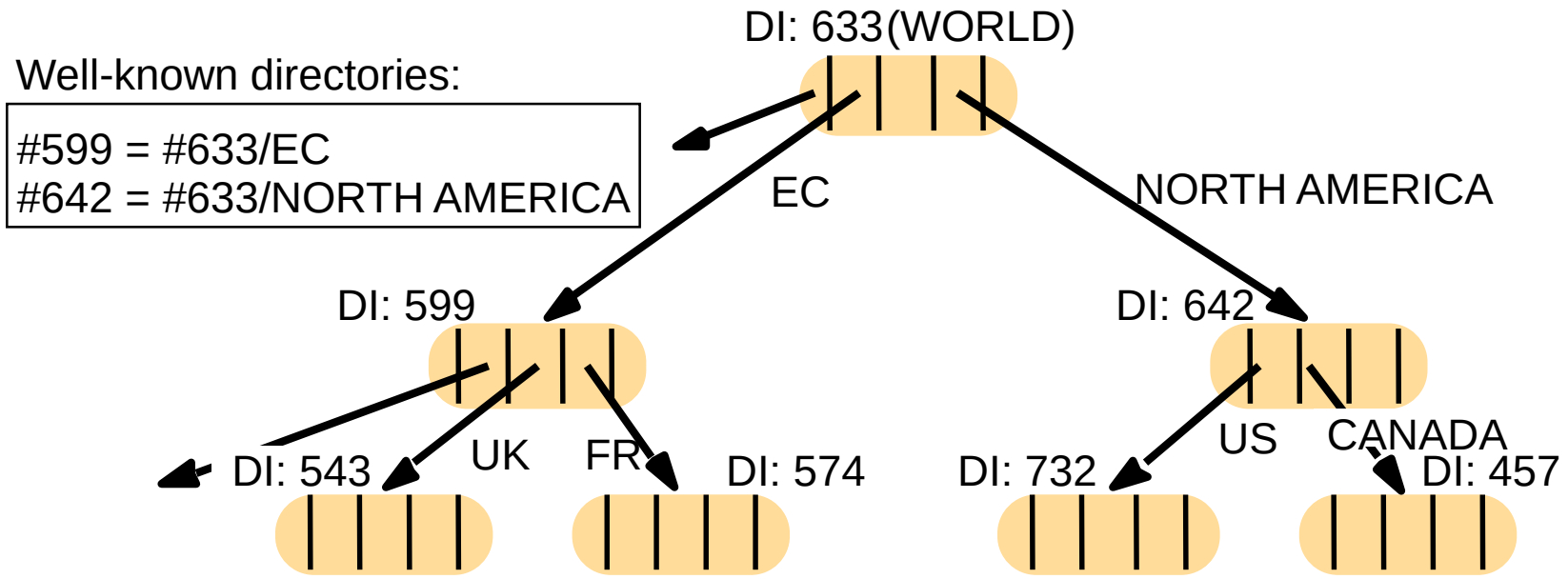


Figure 9.9
Restructuring the directory

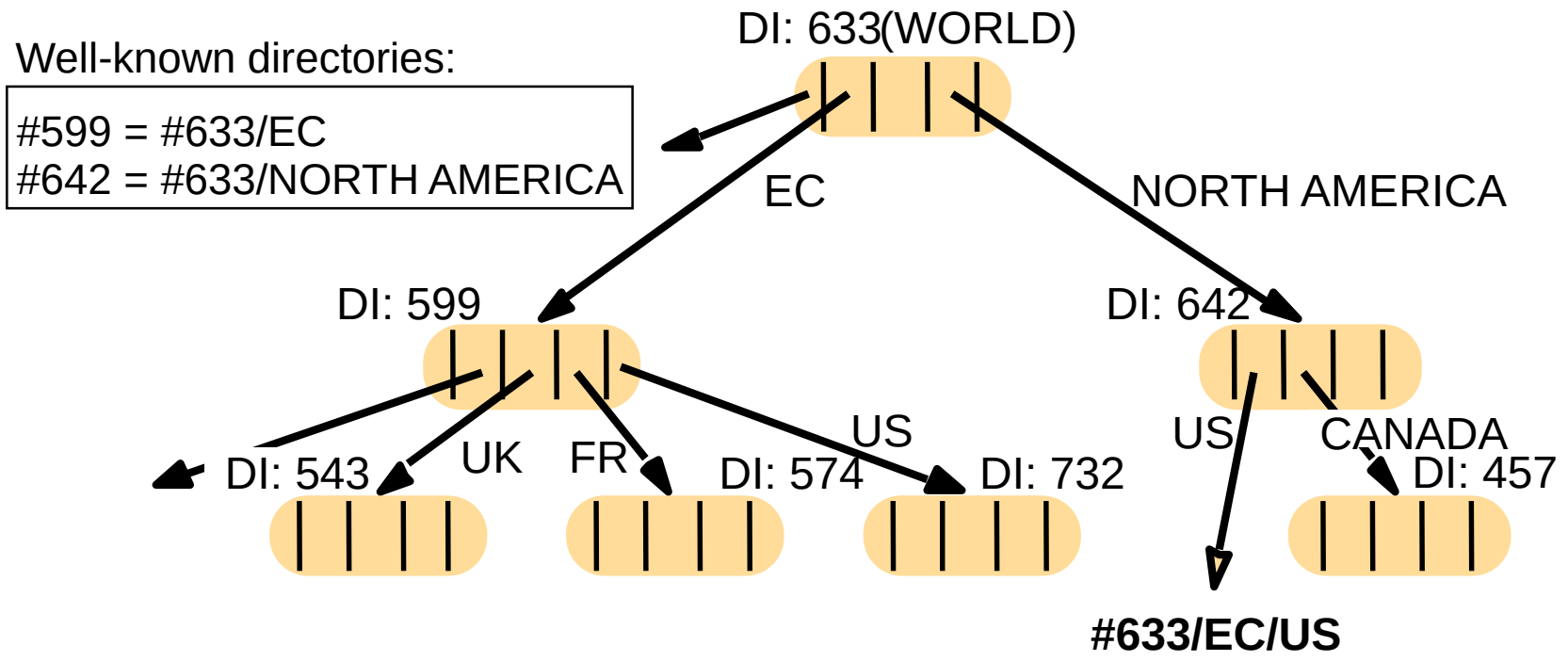


Figure 9.10
X.500 service architecture

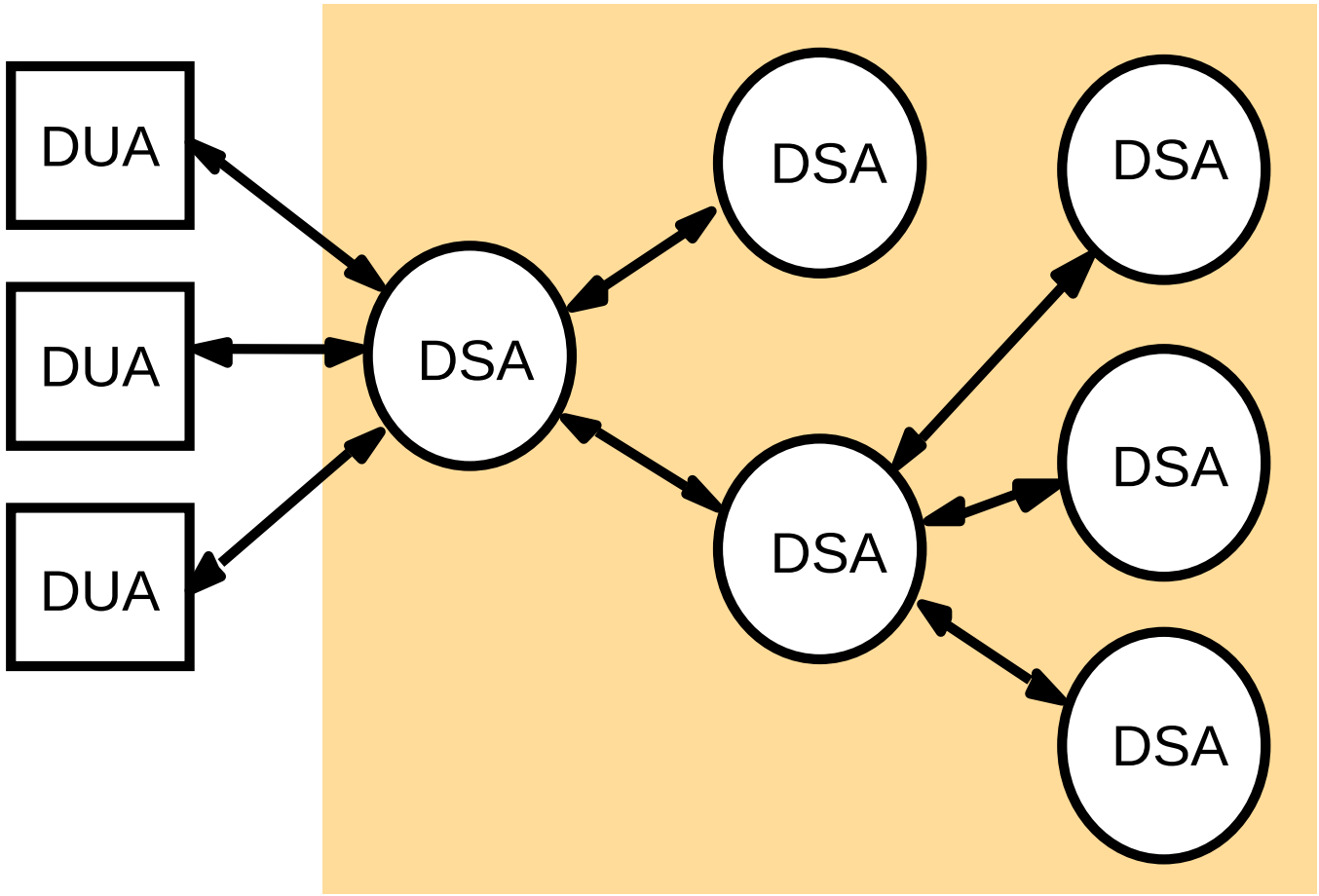


Figure 9.11
Part of the X.500 Directory Information Tree

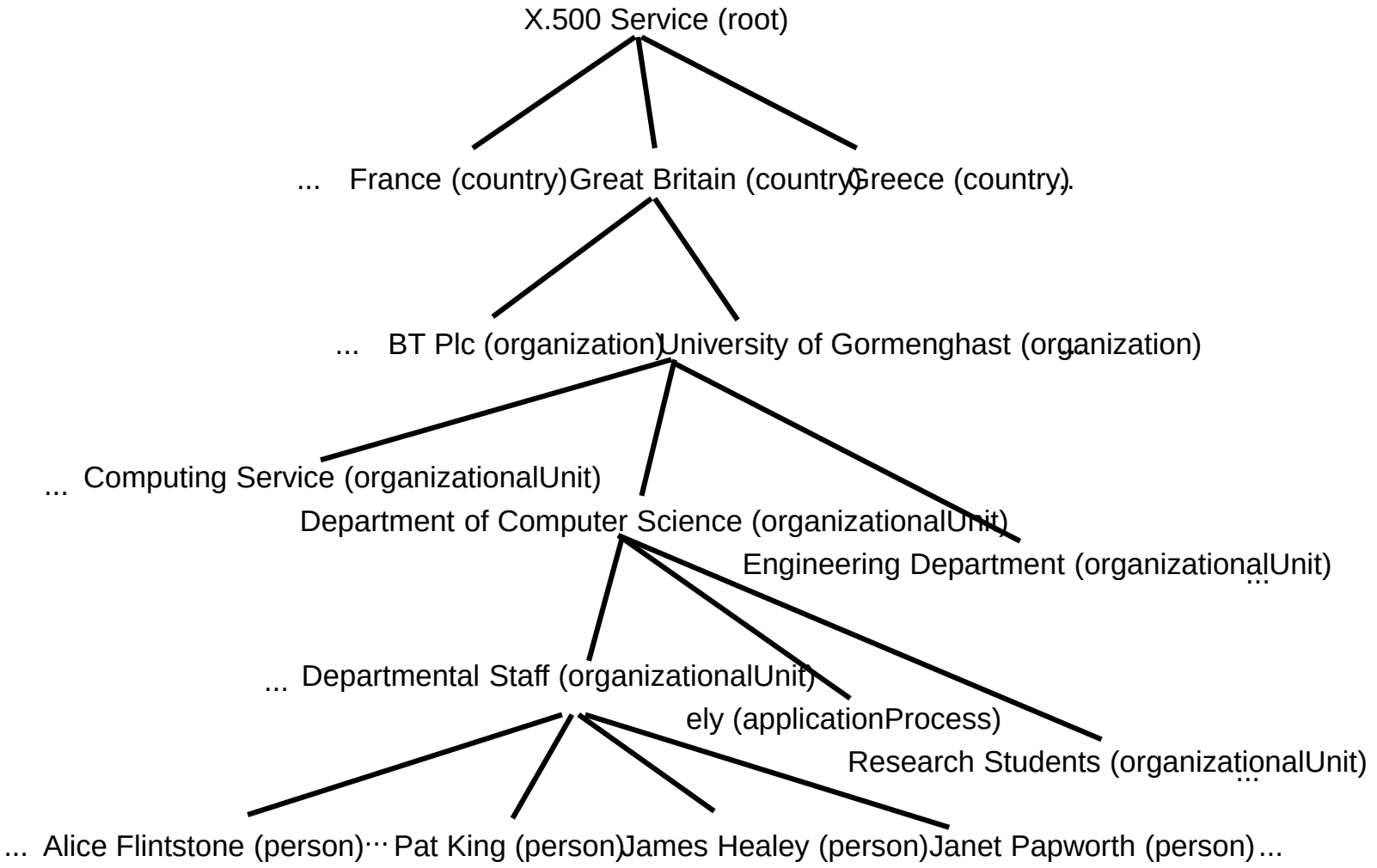


Figure 9.12
An X.500 DIB Entry

info

Alice Flintstone, Departmental Staff, Department of Computer Science, University of Gormenghast, GB

commonName

Alice.L.Flintstone
Alice.Flintstone
Alice Flintstone
A. Flintstone

surname

Flintstone

telephoneNumber

+44 986 33 4604

uid

alf

mail

alf@dcs.gormenghast.ac.uk

Alice.Flintstone@dcs.gormenghast.ac.uk

roomNumber

Z42

userClass

Research Fellow