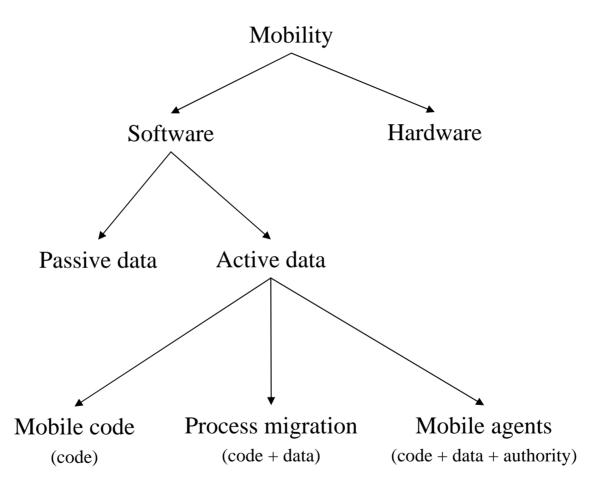
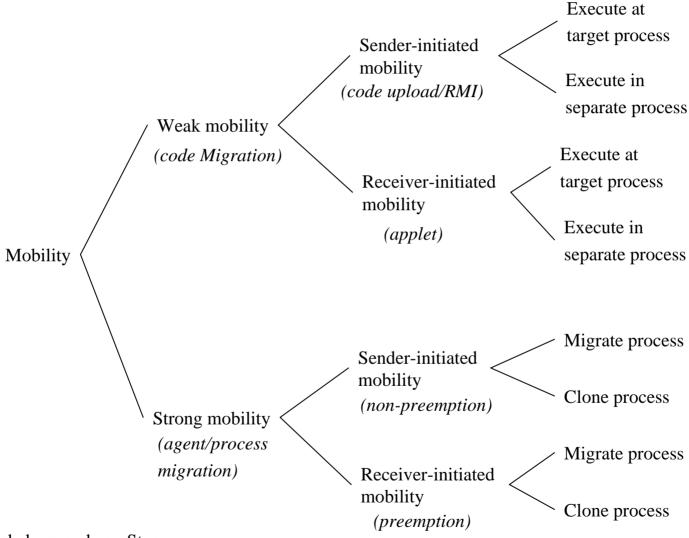
Taxonomy of Mobility



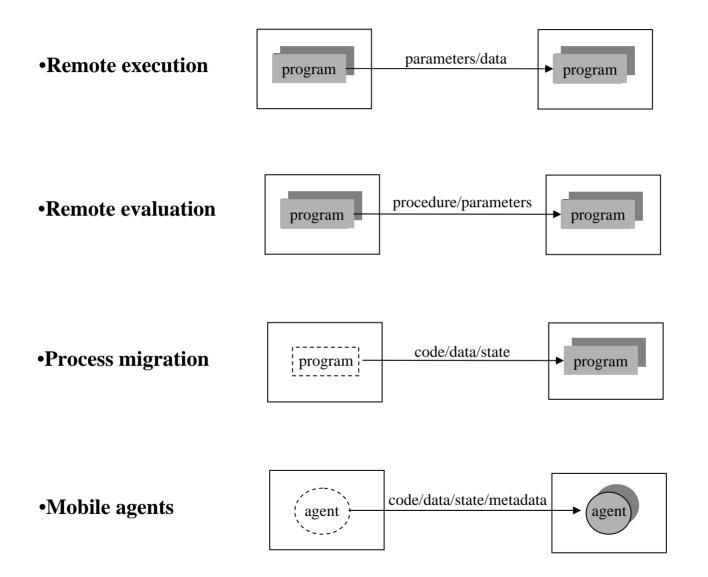
From: D.S. Milojicic et. al.

Taxonomy of Mobility



From: Tanenbabum and van Steen

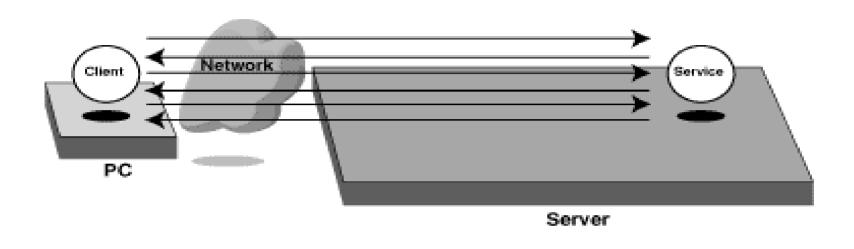
Mobility and Remote Operations

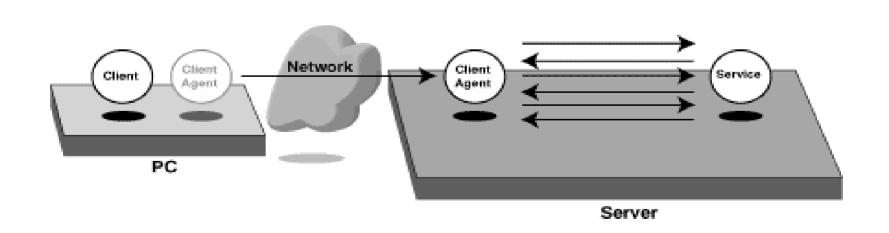


Characteristics of Mobile Agents

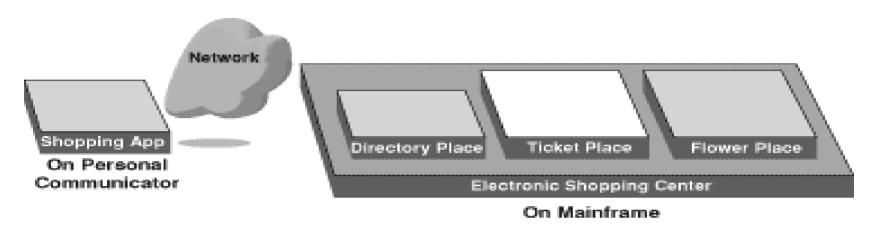
- Encapsulated: code, data, itinerary, activity, etc.
- Autonomous: decisions on what to do, where to go and when to go.
- **Asynchronous**: has its own thread of execution
- Local interaction: with other mobile agents or stationary objects locally.
- Disconnected operation: in the absence of a network connection
- Parallel execution: among agent dispatched to different sites

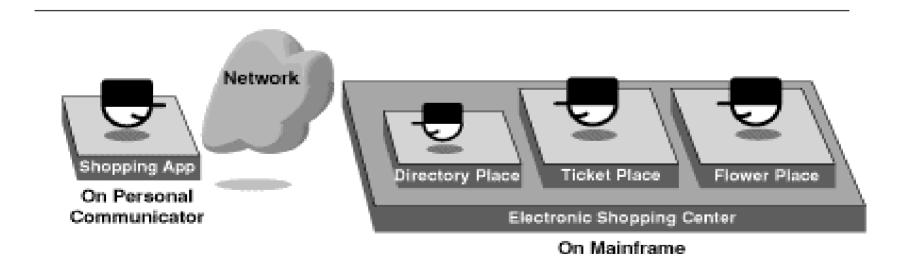
Mobile Agents



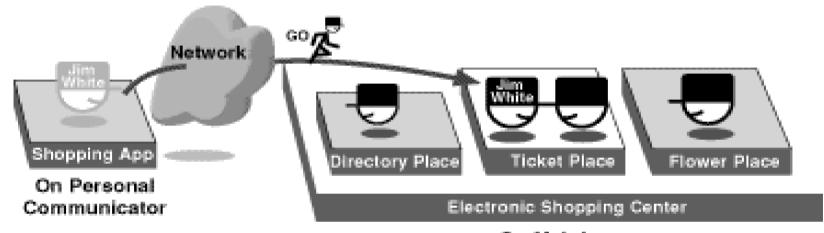


Places and Agents

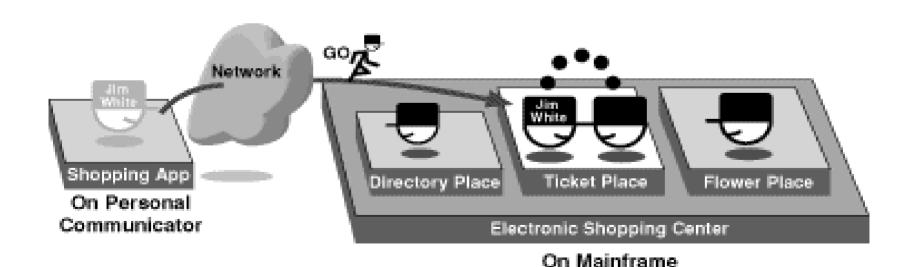




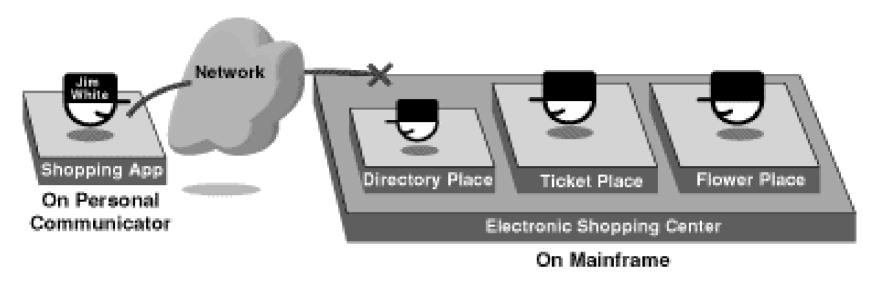
Travel and Meeting

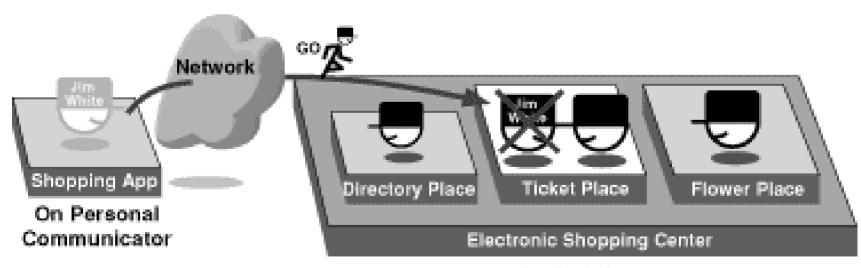


On Mainframe

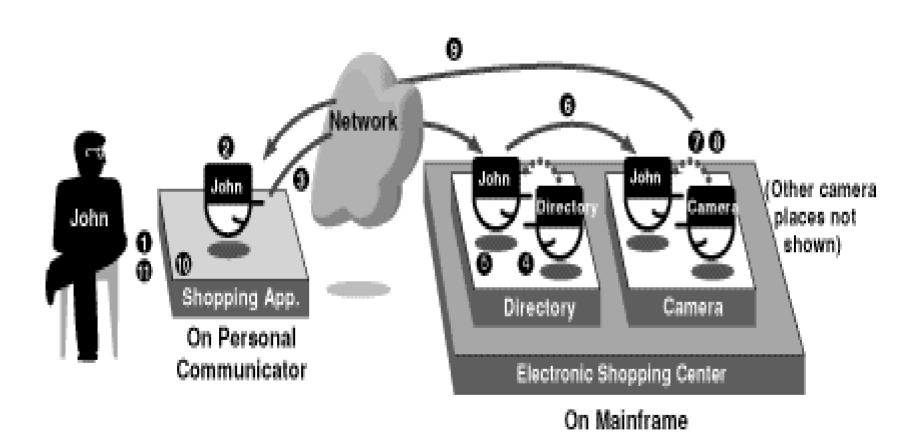


Authorization and Permission

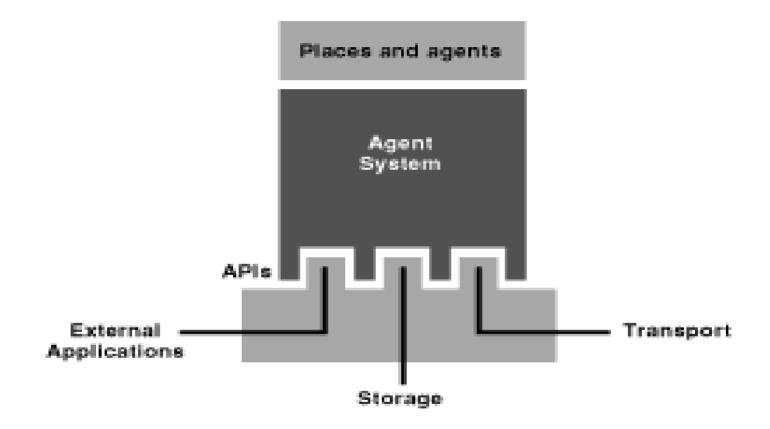




Example



Architecture



Lange's Seven Good Reasons for Using Mobile Agents

- reduce network load
- overcome network latency
- encapsulate protocols
- execute asynchronously and autonomously
- adapt dynamically
- naturally heterogeneous
- robust and fault-tolerant