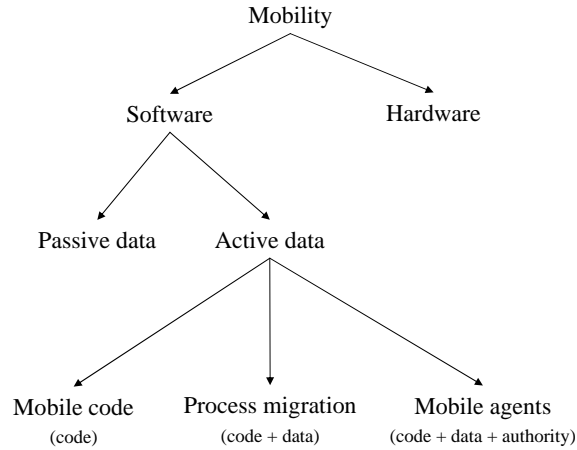


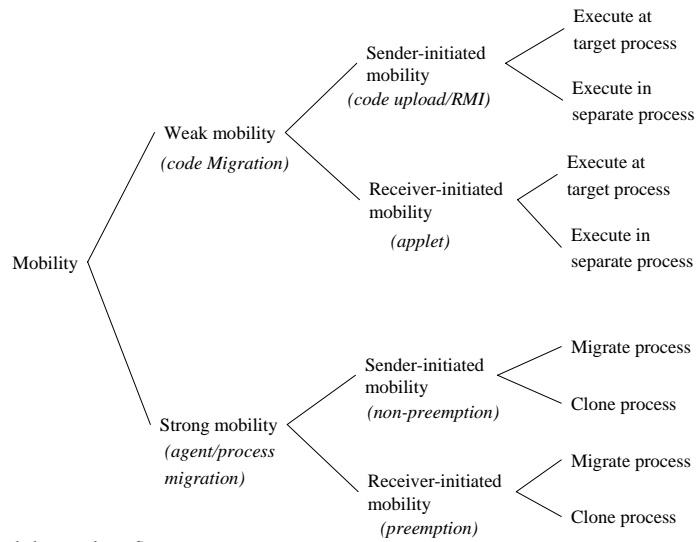
Taxonomy of Mobility



From: D.S. Milojkic et. al.

1

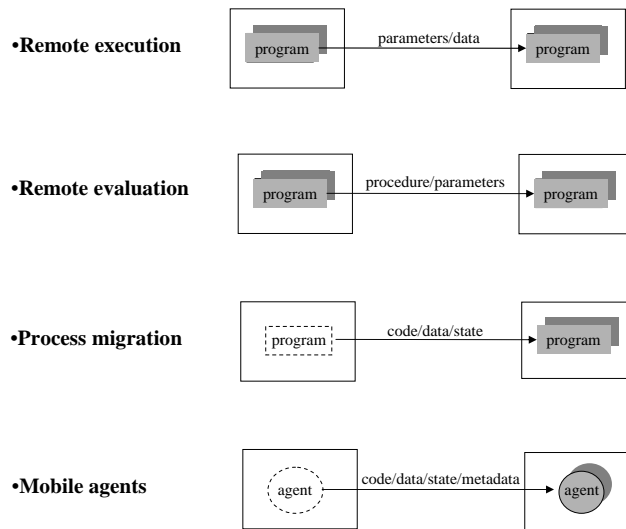
Taxonomy of Mobility



From: Tanenbabum and van Steen

2

Mobility and Remote Operations



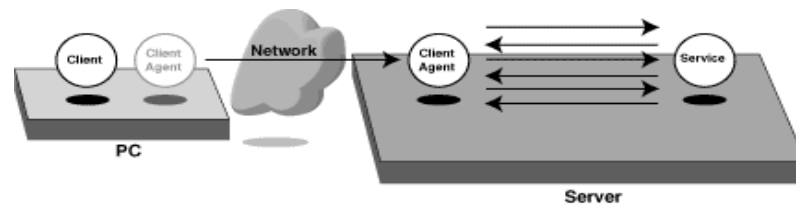
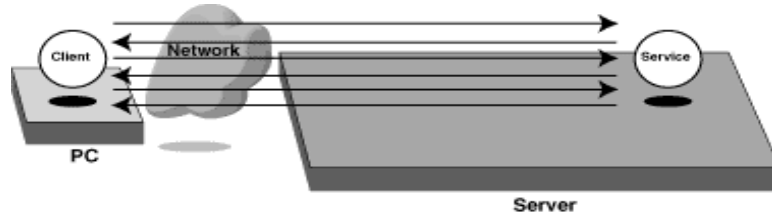
3

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

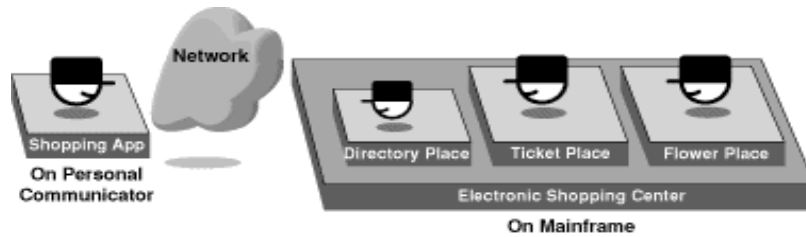
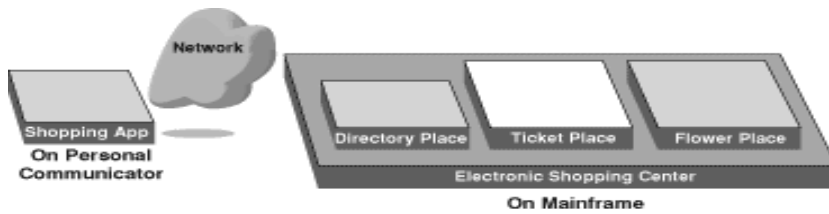
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Mobile Agents



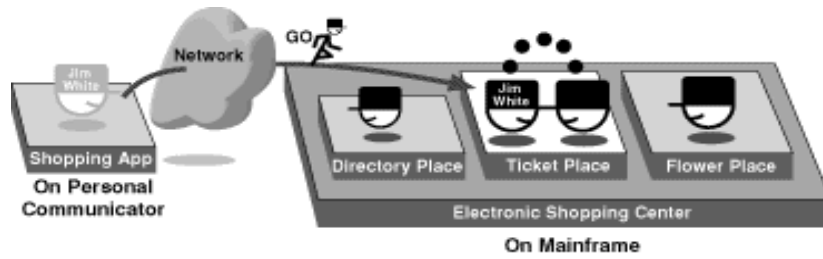
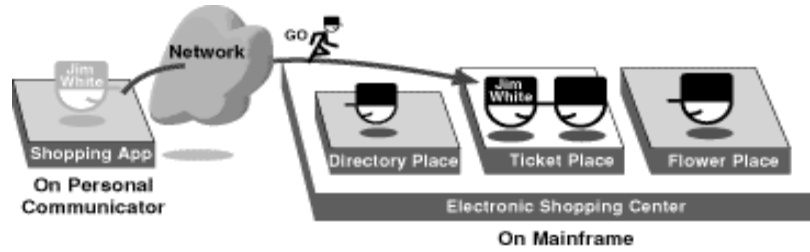
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Places and Agents



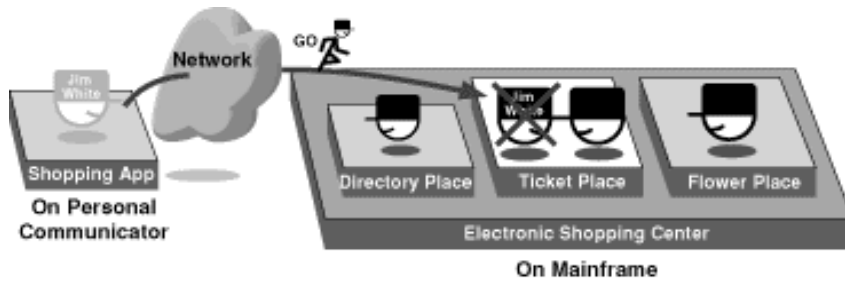
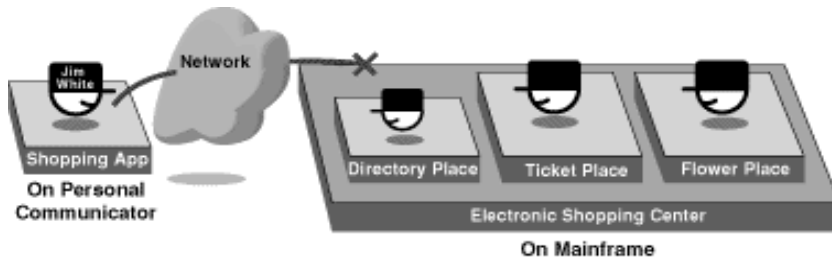
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Travel and Meeting



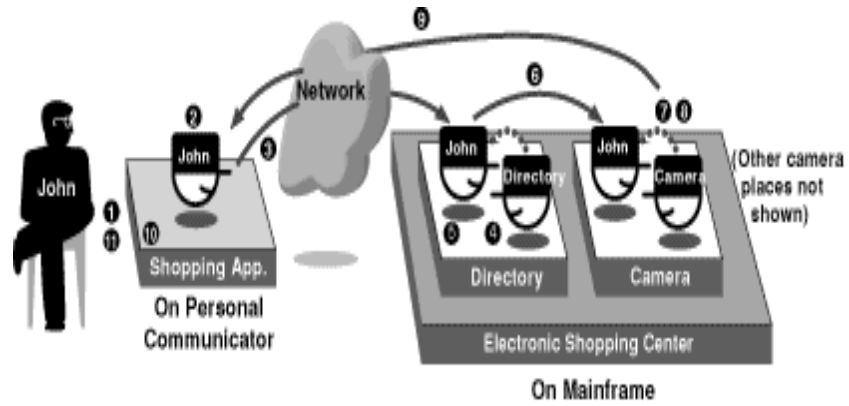
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Authorization and Permission



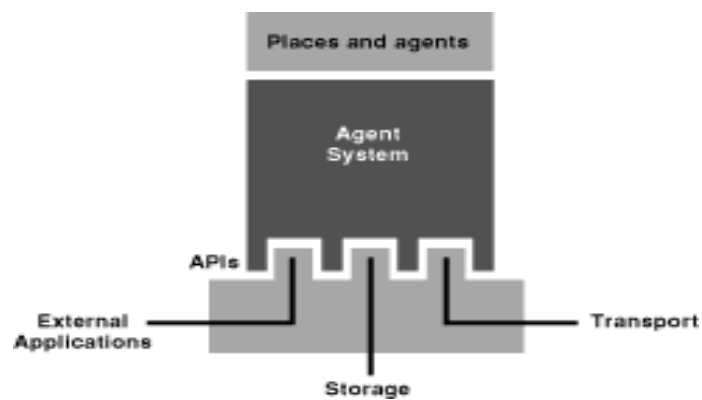
8

Example



9

Architecture



10

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