

SMART CLIENT, DATA STORE, APPLICATION AND ENTERPRISE SERVER BASED ARCHITECTURE

Lesson 12

Mobile Devices Support Infrastructure And Management

DEVICES

- Many types of devices in a mobile network
- Devices are managed by the enterprise server or mobile service provider
- Device information saves at the device manager

DEVICE MANAGEMENT

- Configuring at initialization (bootstrapping)
- Monitoring current configuration
- Processing maintenance requests
- Taking care of location and handover of each device

WHY DEVICE MANAGEMENT?

- A device may, for example, subscribe to specific gaming applications for a month. The account and authentication of each device is managed

DEVICE MANAGEMENT

- Managed invisibly without the system administrator
- Self-administered
- Boots up, starts the operating system, initiates accesses, establishes and terminates the connections, and makes secure connections on its own

DEVICE

- Without using the network administration software when connecting to a network
- Runs through a set-up phase and exchanges packages to get the allocated network and system access addresses

DEVICE MANAGER

- At the device management server assigns a unique ID to a device and a local ID
- Supported by the support infrastructure

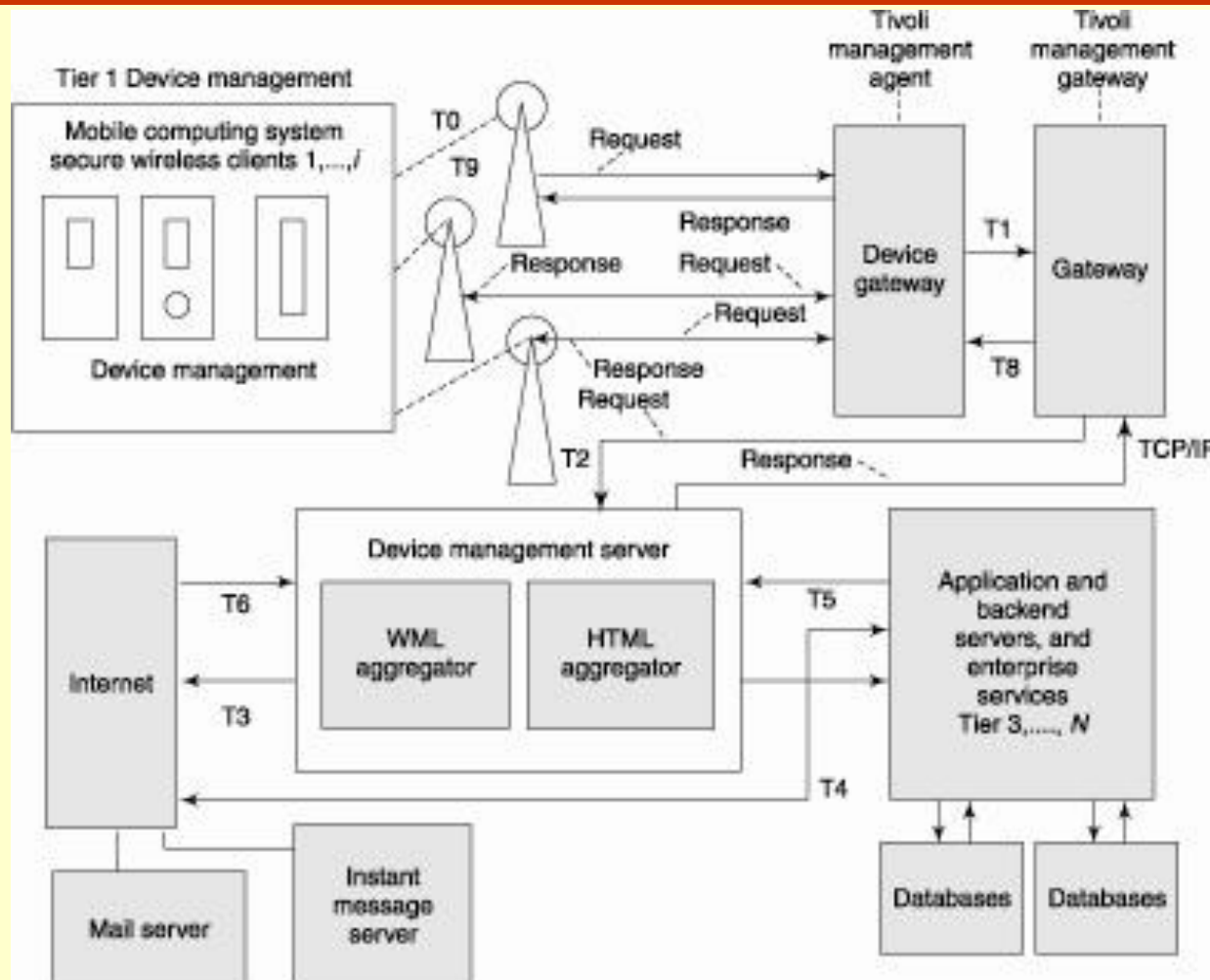
DEVICE IDs

- The unique ID of the device remains fixed and is assigned once
- The local ID can be reassigned when the device moves from one personal area network to another.

DEVICE OBJECTS MANAGEMENT

- Synchronization using **Standard Specifications**
- Open mobile alliance device management (OMA DM) standard in mobile device computing system
- DM defines a description framework and has a hierarchical structure in which there is a management object tree

IBM TIVOLI DEVICE SUPPORT INFRASTRUCTURE ARCHITECTURE



SUMMARY

- Device Manager
- Device Management Synchronization using Standard Specifications
- IBM Tivoli device support infrastructure architecture

End of Lesson 12

Mobile Devices Support Infrastructure And Management