

B345 Internet Science and Technology

Week 9 lecture 2

Today's Lecture Learning Objective

- Understand the basic architecture of wireless Java solutions.

Wireless Solutions

- Some example stakeholder concerns which prompts wireless and mobile solutions:
 - Availability
 - Productivity
 - Cost
 - Information Relevance
 - Revenues
 - Customer Satisfaction
 - Competitiveness

Wireless Solutions

- Improving processes
- Are there "new" capabilities?

Anatomy of Java 2 Micro Edition

<< See Diagram A and B >>

Architecting J2ME Applications

- Implementation concerns
 - Network traffic
 - Local caching
 - Separating business, presentation and persistence logic
- Model-View-Controller architecture patterns

<< See Diagram C >>

Deployment Models

- For developers:
 - Standalone.
 - N-tier client server.

<< See Diagram D >>

- Fat/Thin Clients

<< See Diagram E >>

Deployment

- Considerations for service providers:
 - Access gateways
 - Firewalls
 - Caching
 - Middlewares

<< See Diagrams F, G and H >>

Java Architectural Solutions

<< See Diagram I >>

Carrier Technology

- Impact on Java apps?
 - GSM
 - GPRS
 - 3G services

Local/Personal Networking

- Impact on Java apps?
 - Bluetooth
 - 802.11 set of WLANs
 - Infrared