

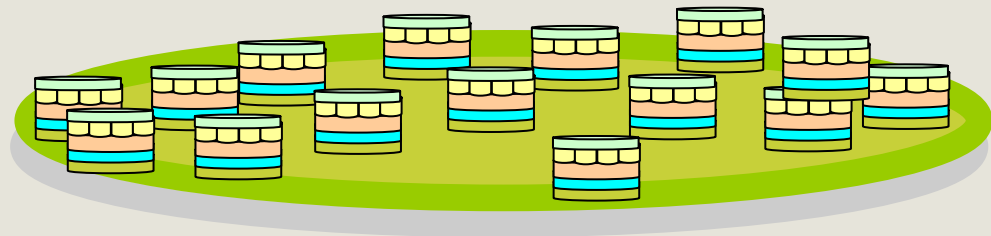
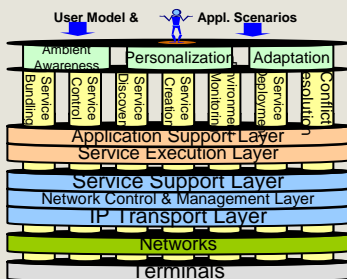
B3G Service Architecture – some considerations

What are the requirements?

- "Beyond 3G"
 - Enable new services?
 - Which services?
 - Backwards compatibility?
- How tight is the coupling to the access network?
 - Is the service architecture the same for the fixed and mobile networks?
 - How do you deliver service support parameters to networks where the corresponding notion does not exist?
 - E.g. location into the fixed network
- What services should be enabled?
 - Dynamic portals, adaptive content delivery, or something more advanced?
- How much must it scale?
 - I.e. the architecture will be different if it has 20 users, compared to 20 000 000
- What is the deployment platform?
 - Or is it deployment agnostic?

From "wedding cake" to "hors d'oeuvres plate"

- Away from the strictly layered model
- Away from the centralized logic model
 - Logic is distributed in nodes, not executed in central server
 - New requirements on provisioning, security and trust
- Event-driven from the bottom, as opposed to event-driven from the top

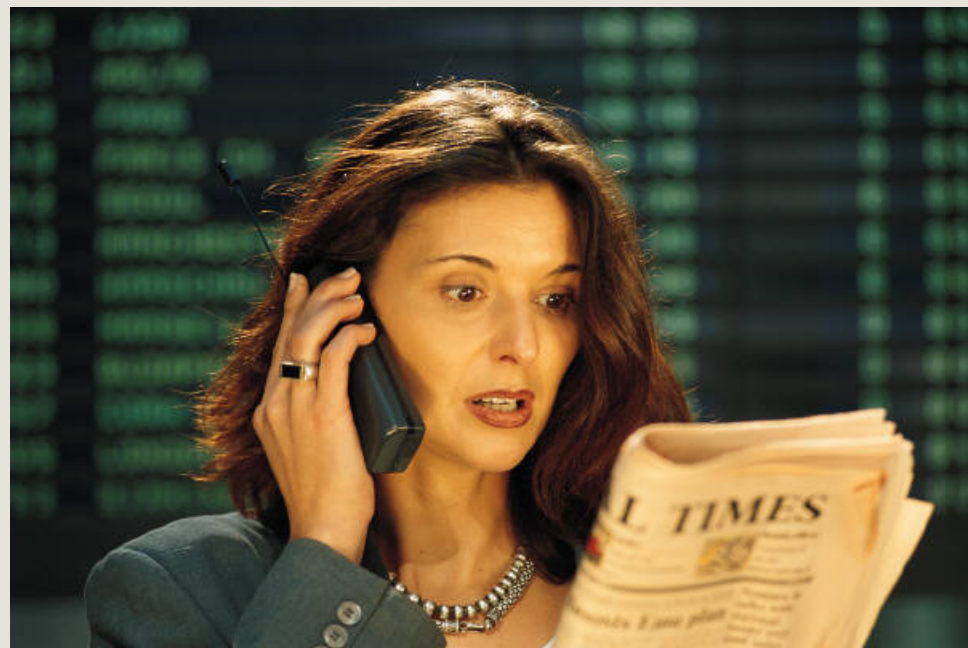


Backwards compatibility, forwards movement

- How do we connect to the "legacy systems" that are now being deployed?
 - IMS & MMS
- How do we connect to Internet resources?
 - World Wide Web
 - File sharing / P2P
 - VoIP
- What other resources may be connected?
- What are future resources we should consider?
 - Robots
 - Sensor networks

”Convenience is the killer app”

- How does it look from the users perspective?
 - Invisible network administration
 - Invisible server setup
 - “Just switch it on and it works”
- How do we get there?
 - Self-learning / self-healing network management
 - Minimum user disturbance
 - Adaptive / context-sensitive services
 - Lots of nice words – we need to fill them



Whom should it relate to?

- Standards
 - OMA
 - W3C
 - OASIS
- Research
 - There must be hundreds of middleware projects out there

But the main questions...

- Which problems are solved by this architecture?
- Who is the receiver?
 - Developers?
 - Researchers?
 - General population?
- What does it consist of? (i.e. what are the deliverables?)
 - Software (Tools, Clients, Servers)?
 - APIs?
 - Reports and Documents?
 - UML descriptions?
 - Powerpoint slides?