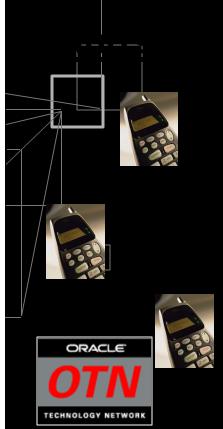


Understanding Mobile Complexity

Mel Beans
Principal Mobile Architect
Oracle Corporation
Mel.Beans@oracle.com
650-506-4968



Mobile Telecom Today



Networks

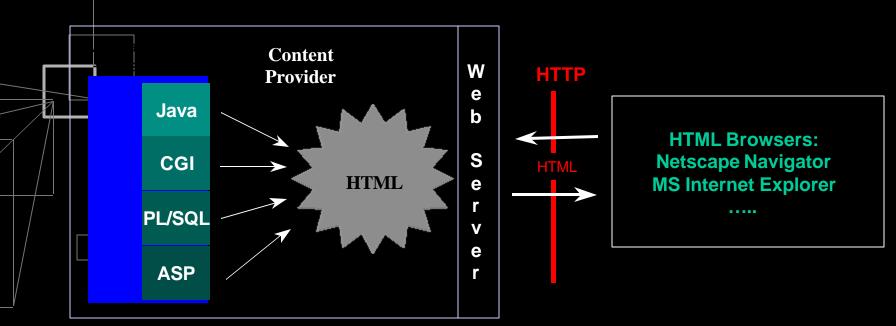
Services:

- voice
- voicemail
- call waiting
- SMS

Content:

none

Standard Web - HTML

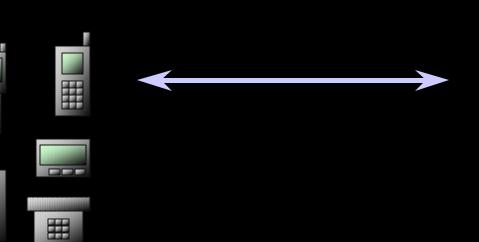


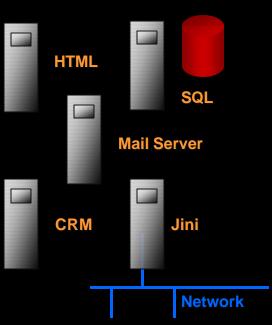




- Leverage existing content
- Support variety of devices
- Enable mobile e-Business

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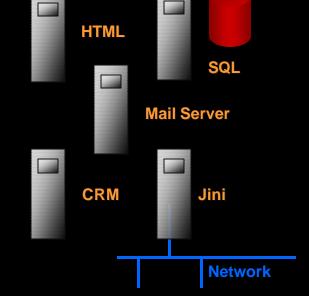








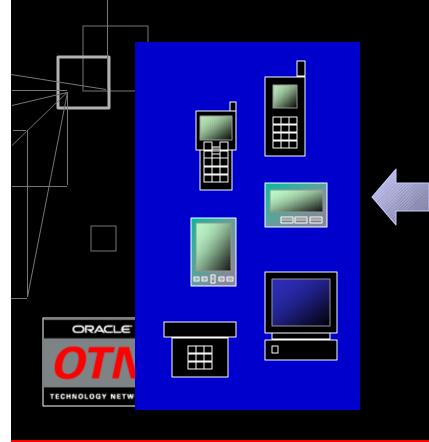
- Existing Web Sites
 - HTML
 - WML
 - HDML...
- Databases
- Mails Servers
- ERPs, CRMs, SCMs
- Home Appliances







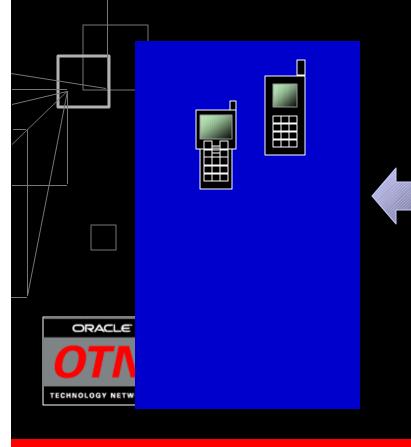
What are devices?



Many languages

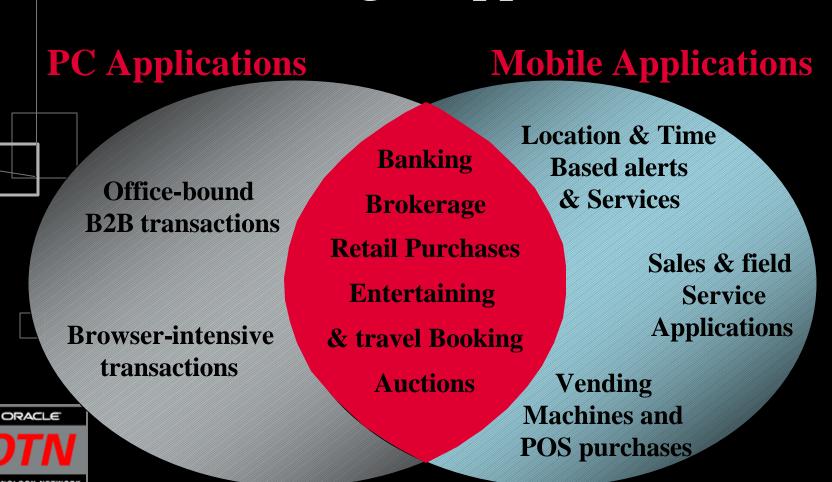
- Smartphones
 - WML
 - HDML
- Pagers
- Palms
- PC / HTML
- Regular phones

What are networks?

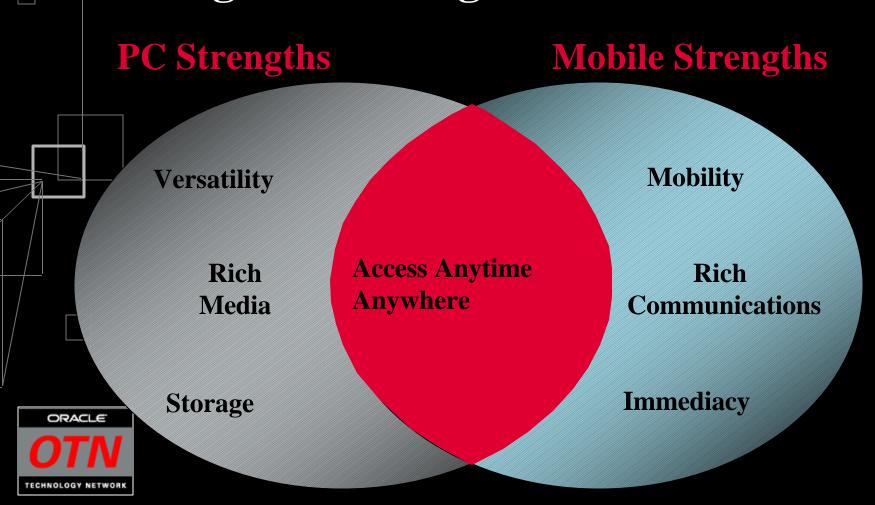


- Differences in the networks
 - GSM
 - CDMA
 - CDPD
 - TDMA
 - Etc...

to Deliver the Right Applications

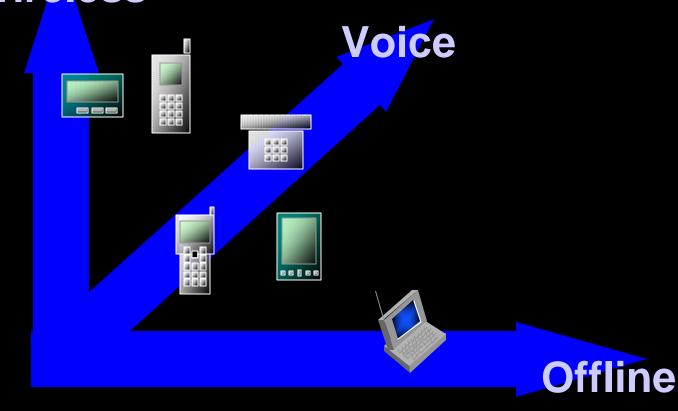


Leverage the Strengths of Each Medium



Sources: Analysis 2000

The Mobile Continuum Wireless



ORACLE

TECHNOLOGY NETWORK

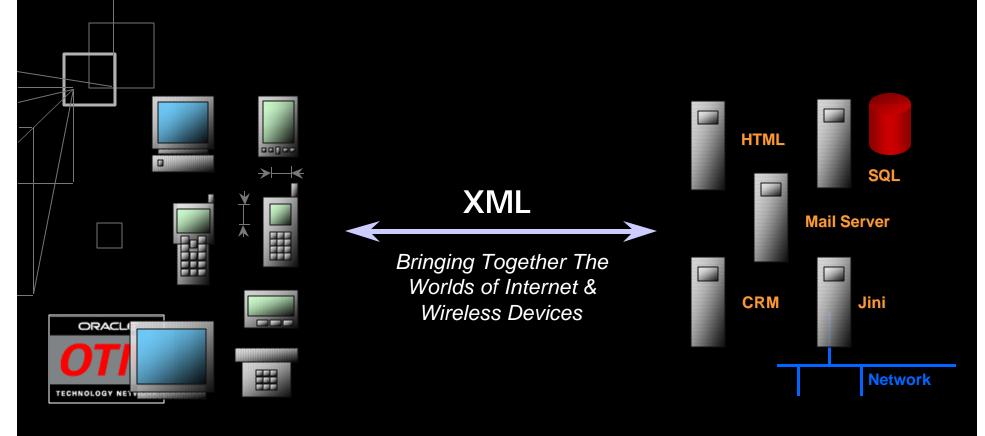


One Mobile Platform

- Develop once, deploy to any mobile device
- Flexibility of deployment: in-house or hosted
- Support for advanced mobile features such as location, personalization and messaging
- Multi-modal support: wireless, voice, offline
- Integrated with industry-leading Oracle9i



Tool Kits

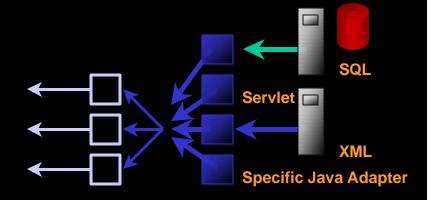






Content adaptation, Device transformation, Logs, Personalization

- Develop
 - SQL, PL/SQL
 - Servlet Adapter
 - URL Adapter
 - XML stream
 - Specific
 - Java Dev.



Device transformation

Content adaptation

9i



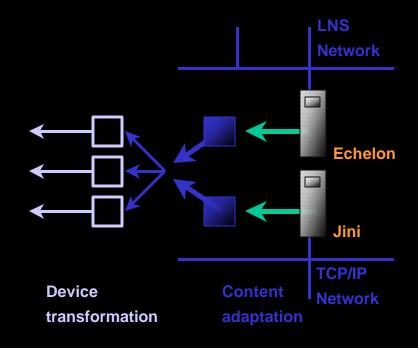






Content adaptation, Device transformation, Logs, Personalization

- Home appliances
 Echelon Adapter
 and Jini Adapter
 - Appliances
 - Alarms
 - Switchs
 - Sensors





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Content adaptation, <u>Device transformation</u>, Logs, Personalization

- Transforms XML to any specific ML
 - Smart-Phones
 - WML / WTP
 - cHTML / iMode
 - Palms
 - Pocket PCs
 - IVR systems

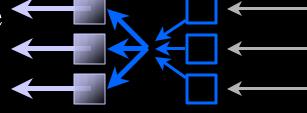
• VoxML, VoiceXML transformation

Device

Content

adaptation







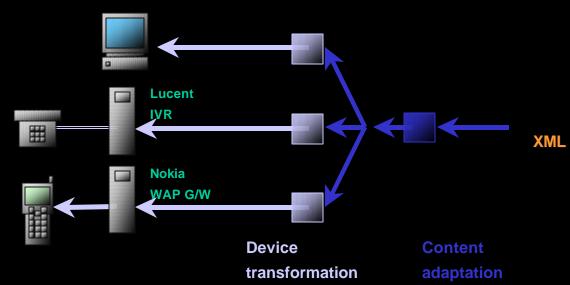
Device transformation

• Advanced XSL Processing

<TEXT>Welcome</TEXT>
<IMAGE>iASWE.gif</IMAGE>
<SOUND>Welcome.wav</SOUND>
<IMG_W>iASWE.wbmp</IMG_W>



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Oracle9iAS Wireless Edition

- Any Device
 Any Gateway
 Any Markup Any Application
- Nokia

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- Motorola
- Ericsson
- Palm
- RIM Pagers
- Blackberry
- Any Network
- Any Browser

- Nokia

- Phone.com
- CMG
- Tantau
- Infinity

- Motorola
- Ericsson

- HTML
- XML
- HDML
- WML
- TinyHTML
- TTML
- CHTML
- STKML
- VoXML
- VoiceXML

- Device independent
- Personalizable
- Location-based
- Event driven
- Secure

- Any Content
- Any Web Site
- Any HTML Page
- Any XML Page
- Any Database
- Any servlet
- Any JSP
- Any XSP
- Any e-mail





