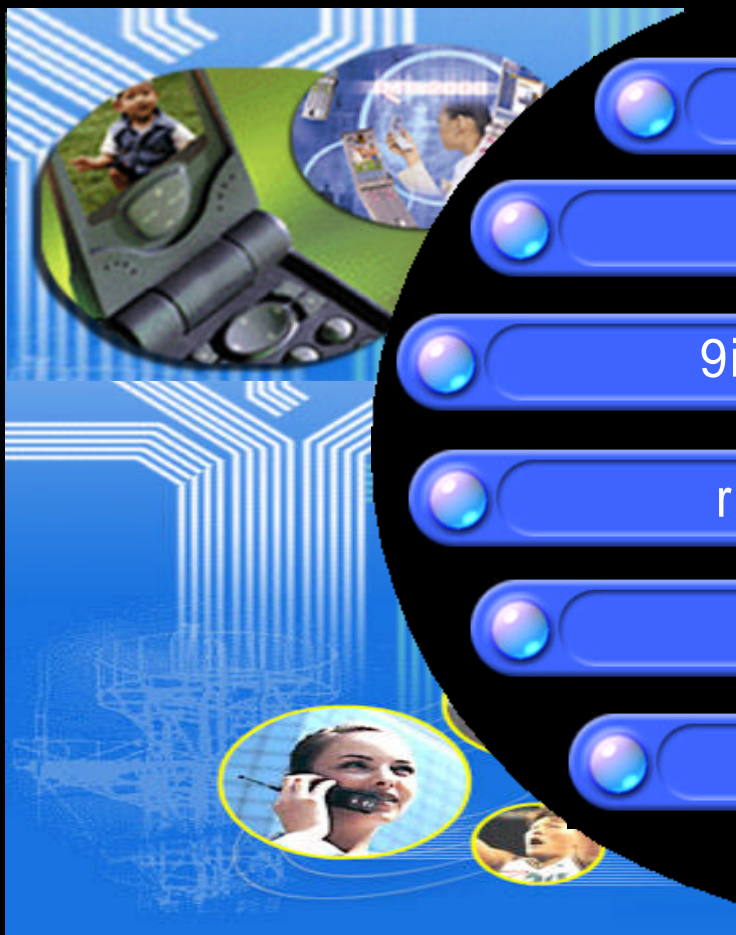


Oracle Wireless Internet Mobile Solution

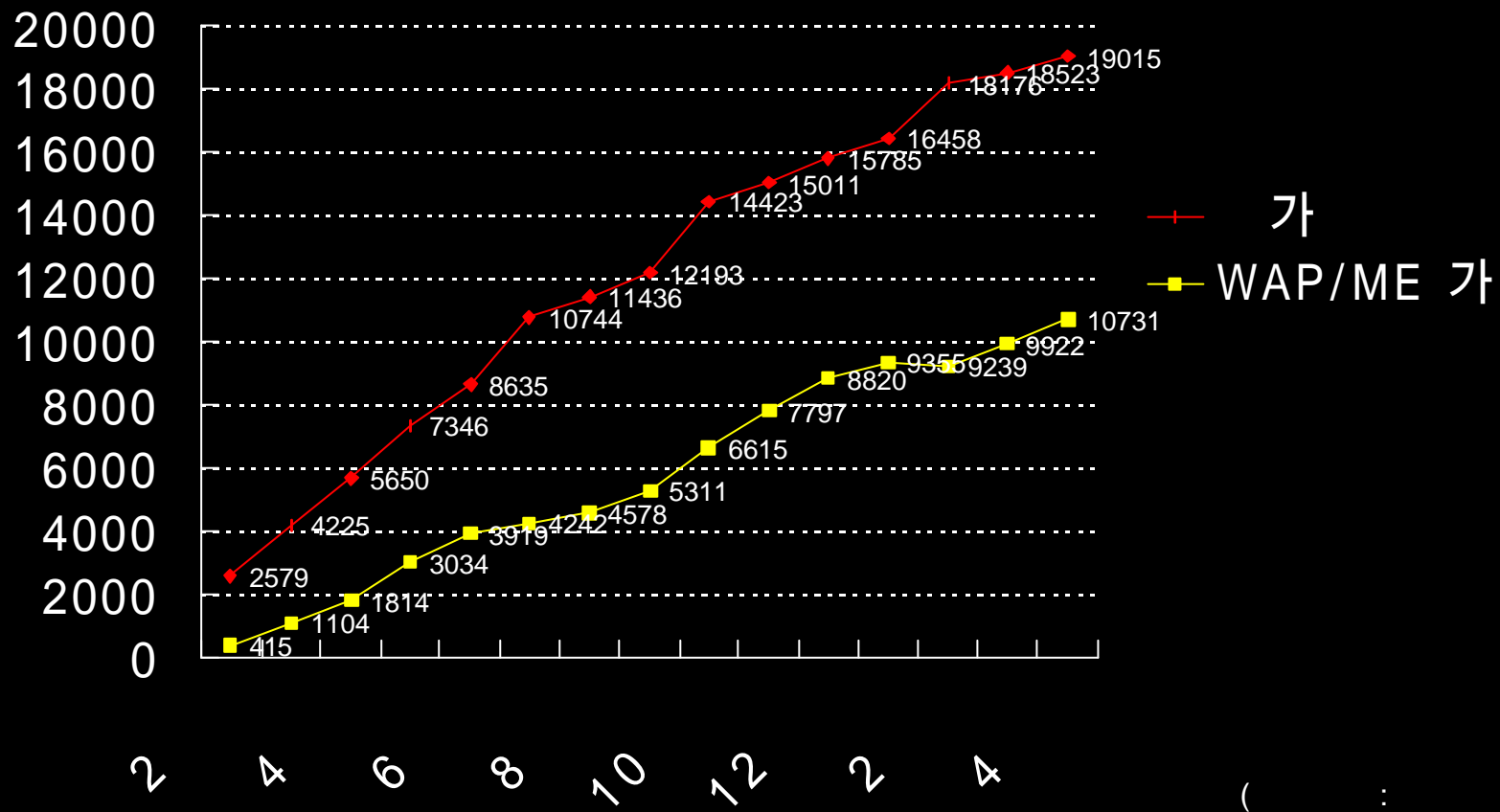
Mobile Lab.

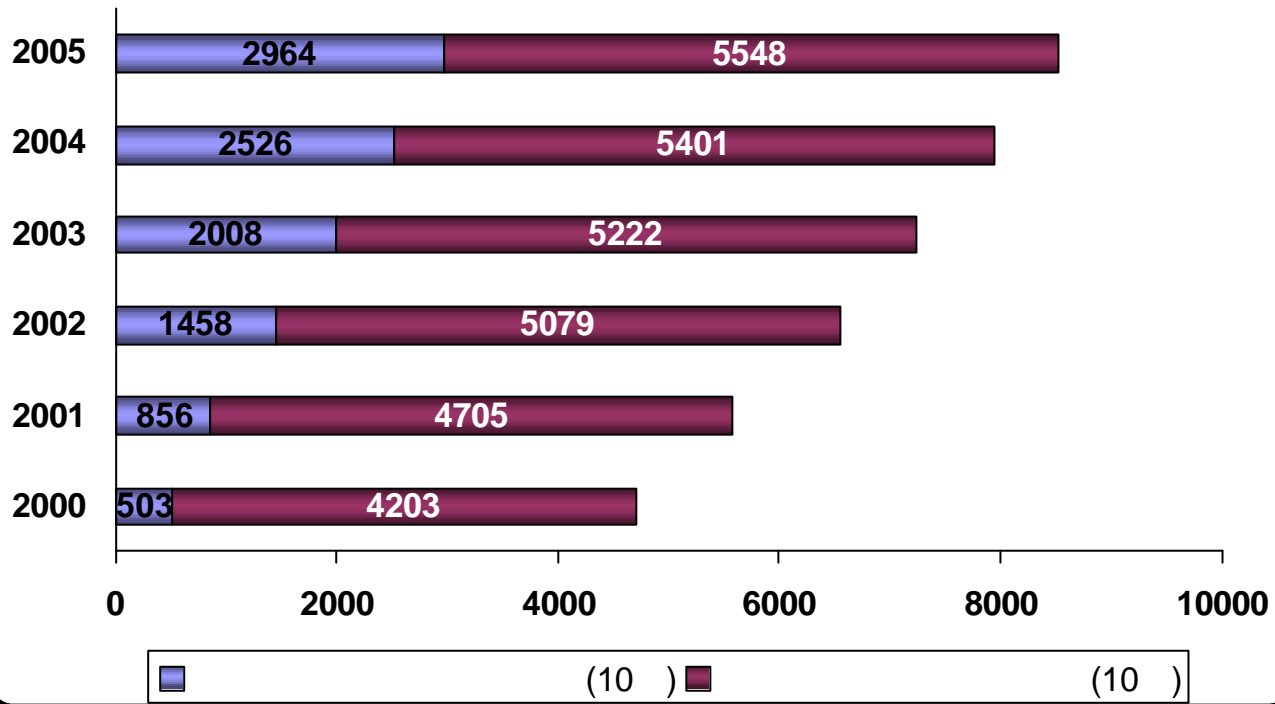


9iAS Wireless Edition

reference

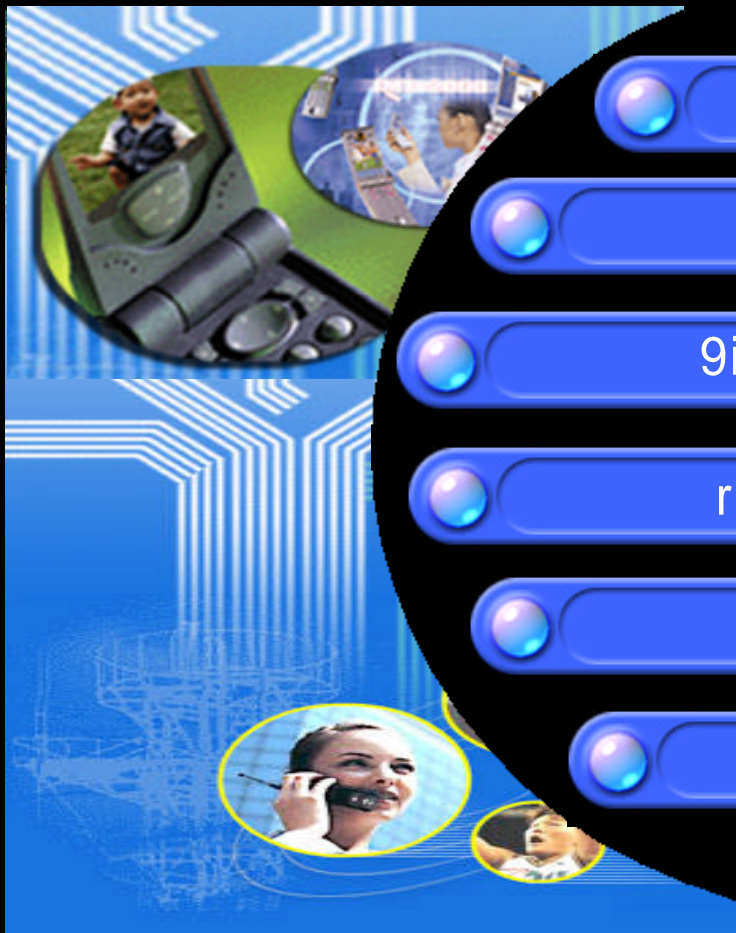
2000 2 ~ 2001 4 가





	44.3	5.8	12.7
(%)			

(: ETRI)



9iAS Wireless Edition

reference

OracleMobile.com



Oracle e - business
suite
Oracle salesonline.com

Tool Server

ORACLE

OracleMobile.com Architecture

3rd Party Content Modules (Optional)



OracleMobile Modules (Optional)

PIM



Speech
Recognition



Standard Platform Features

Personalization
Engine

Links to Other
Services

Location
Awareness

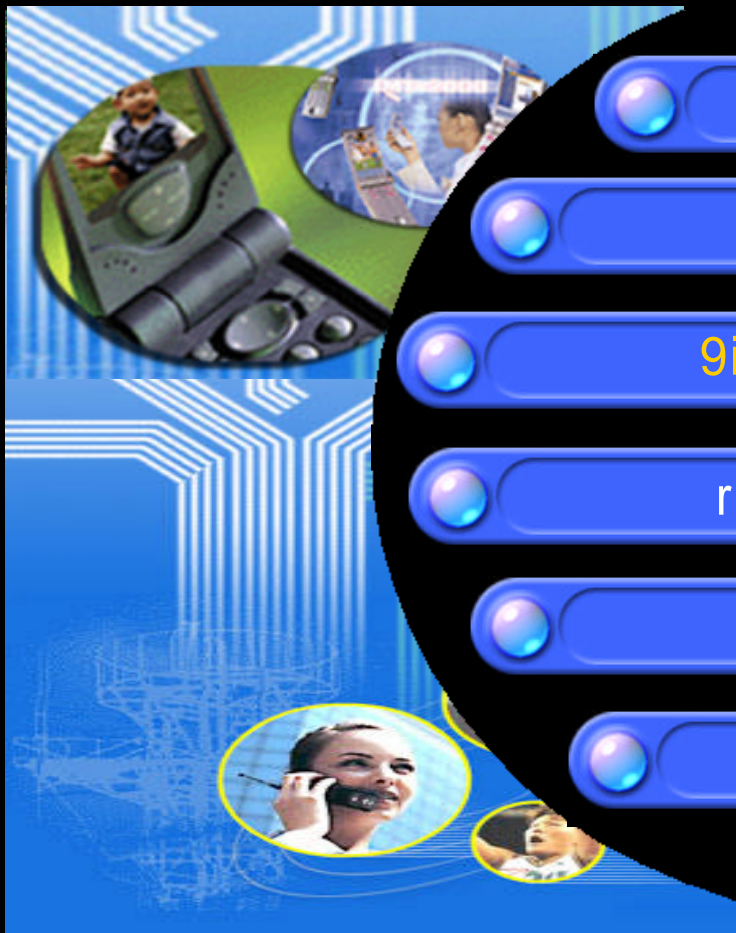
OLAP/Data
Warehouse Tools

Oracle8i

OracleMobile Framework

iAS Wireless

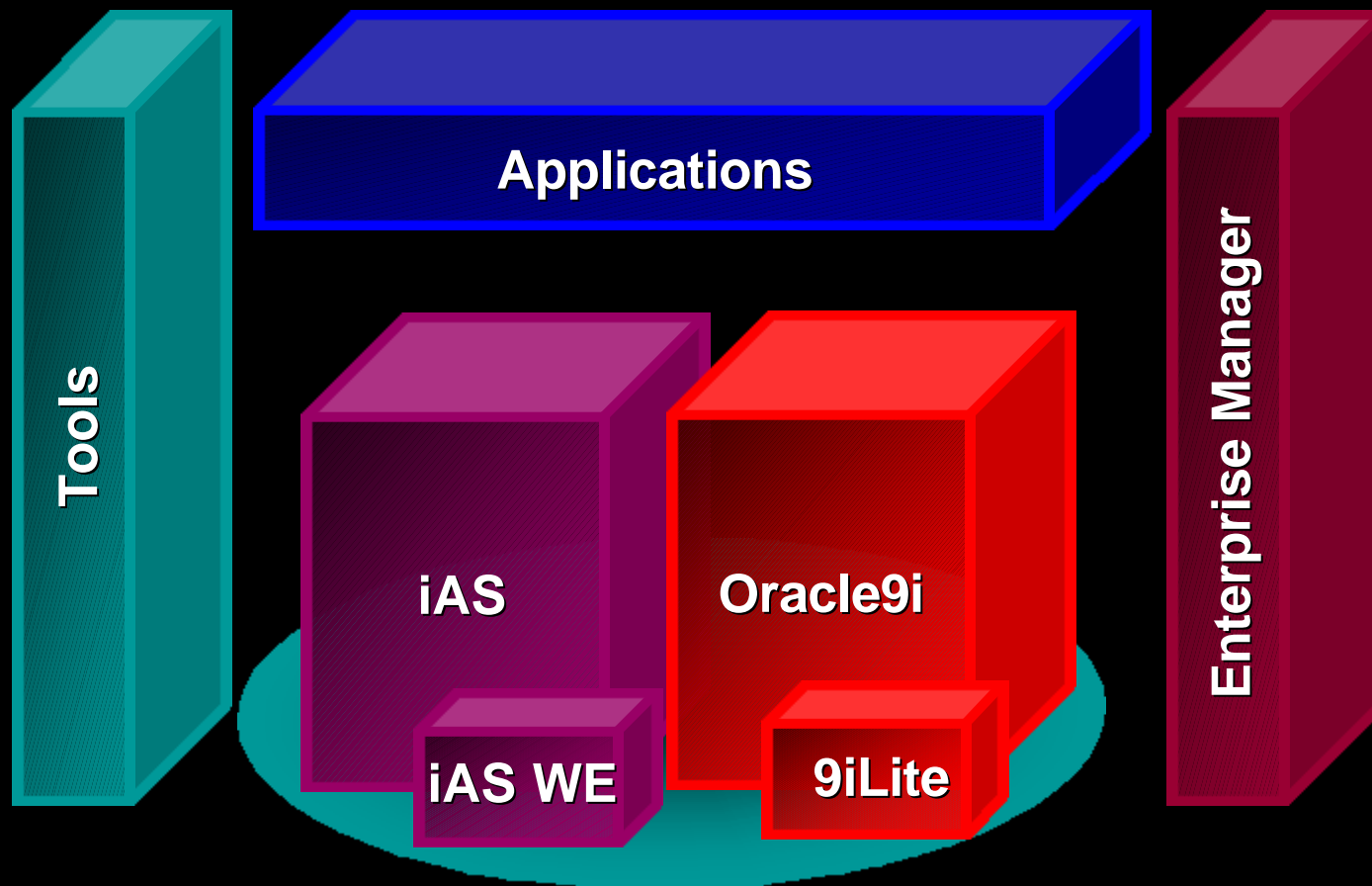
ORACLE



9iAS Wireless Edition

reference

Oracle Internet Platform



Oracle Products

- **Off-line Mobility – Oracle9i Lite**

- Oracle Lite 5.0: Win95/98/NT/2000, WinCE, PalmOS, EPOC
- iConnect
 - Net8
 - http
 - Consolidator
- Web-to-Go:

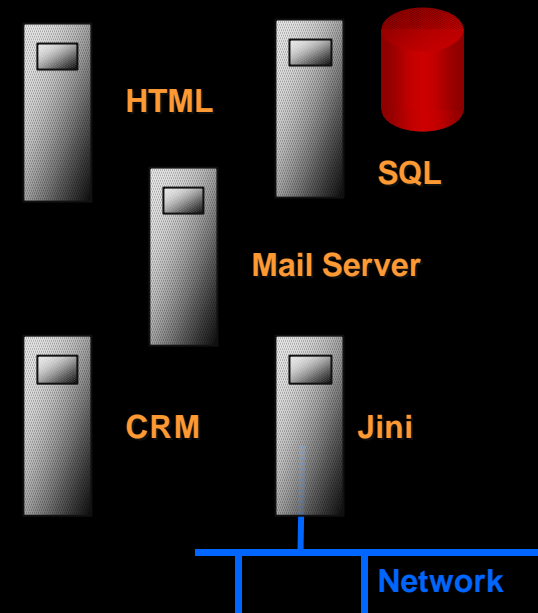
가
가
가

- **On-line Mobility – 9iAS WE**

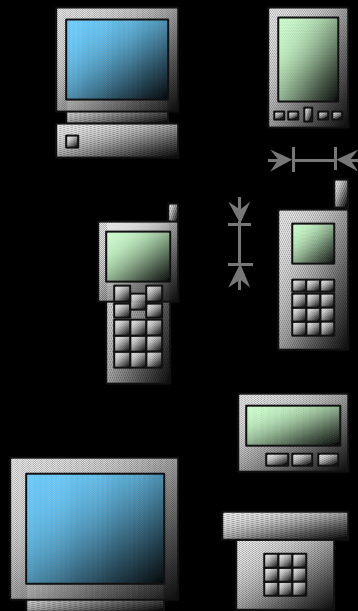
- 가 DB 가 PDA, 가

Many Information Sources

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

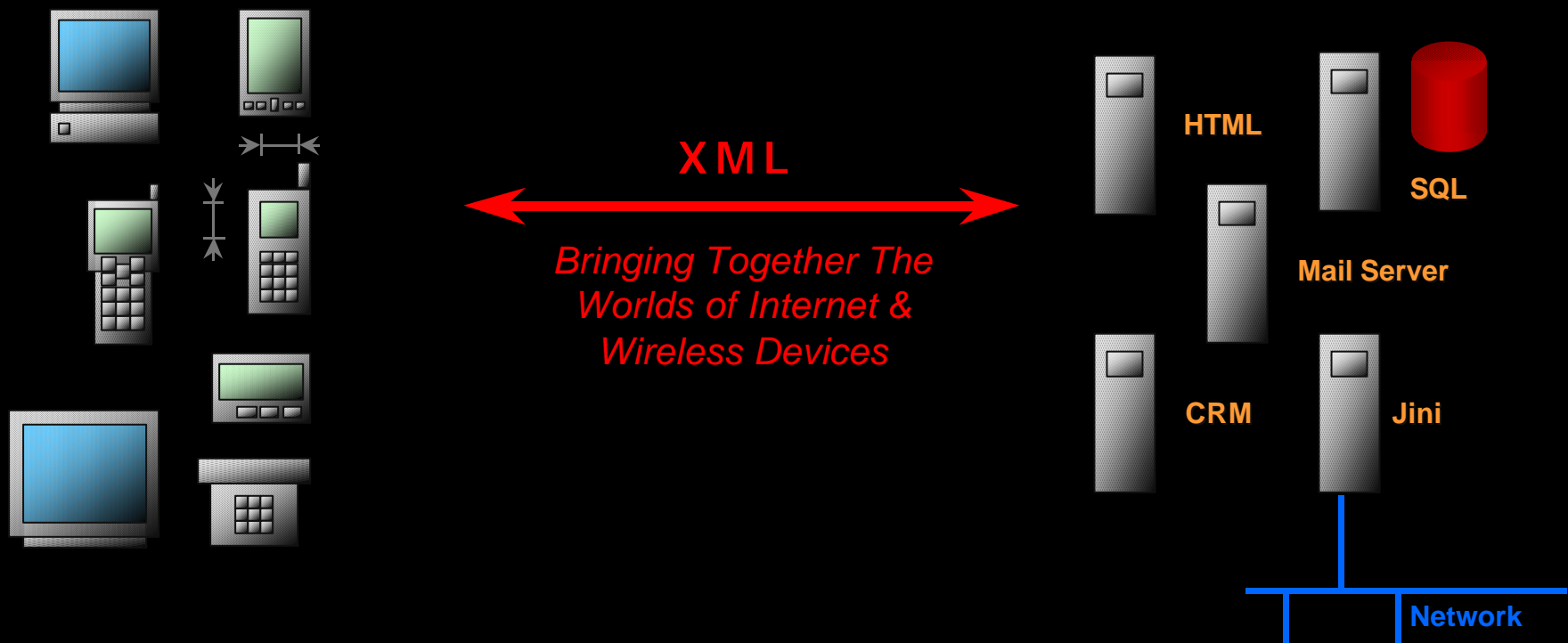


Many Devices

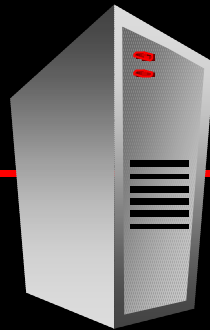


- Smartphones
 - HDML
 - WMLs...
 - Nokia 7110
 - Motorola P7389
 - CHTML
- Pagers
- Palms
- PC / HTML
- Regular phones

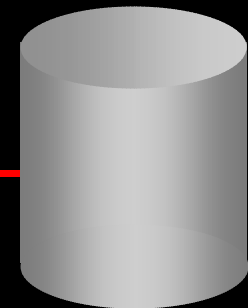
Wireless Edition Oracle9i APPLICATION SERVER



Oracle9iAS Wireless Edition



**Oracle9i AS
Wireless
Edition**



Any Device

- Nokia
- Motorola
- Ericsson
- Palm
- RIM Pagers
- Any Network
-

Any Browser

Any Gateway

- Nokia
- Motorola
- Ericsson
- Phone.com
- CMG
- Tantau
- Infinity
- ...

Any Markup

- HTML
- XML
- HDML
- WML
- TinyHTML
- TTML
- cHTML
- sHTML
- VoXML
- VoiceXML
- ...

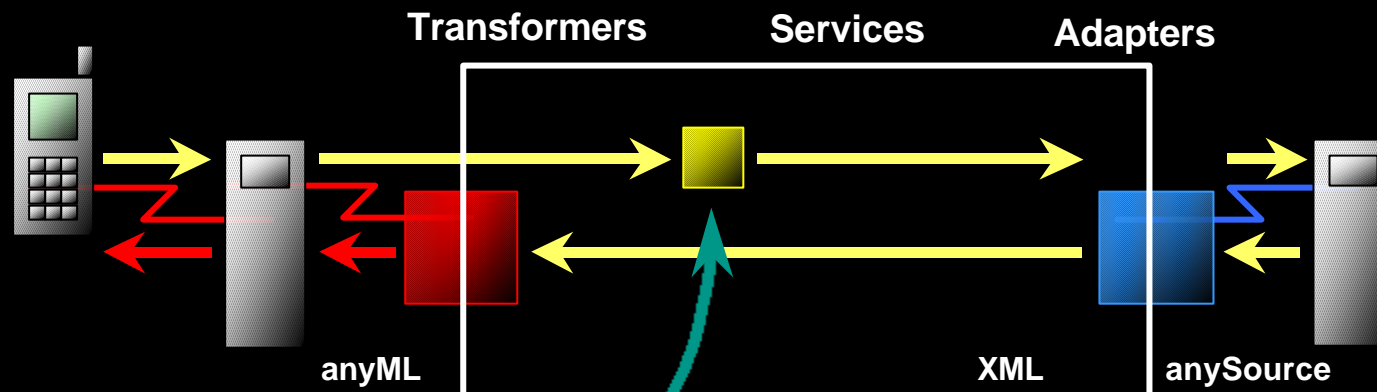
Personalized

- By User
- By Group
- By Device
- By Location
- By Language
- ...

Any Content

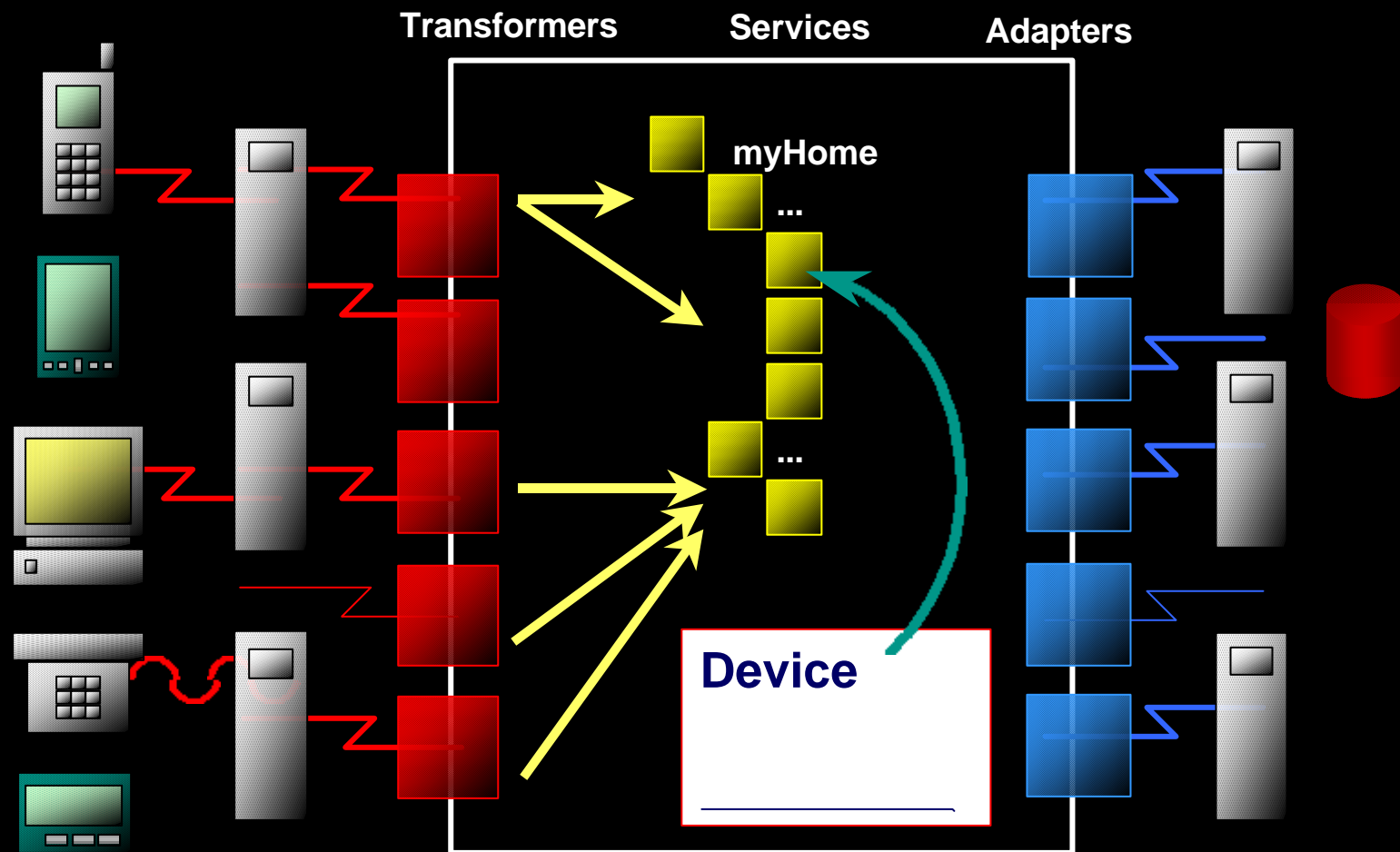
- Any Web Site
- Any HTML Page
- Any XML Page
- Any Database
- Any servlet
- Any JSP
- Any XSP
- Any e-mail
- ...

iAS WE

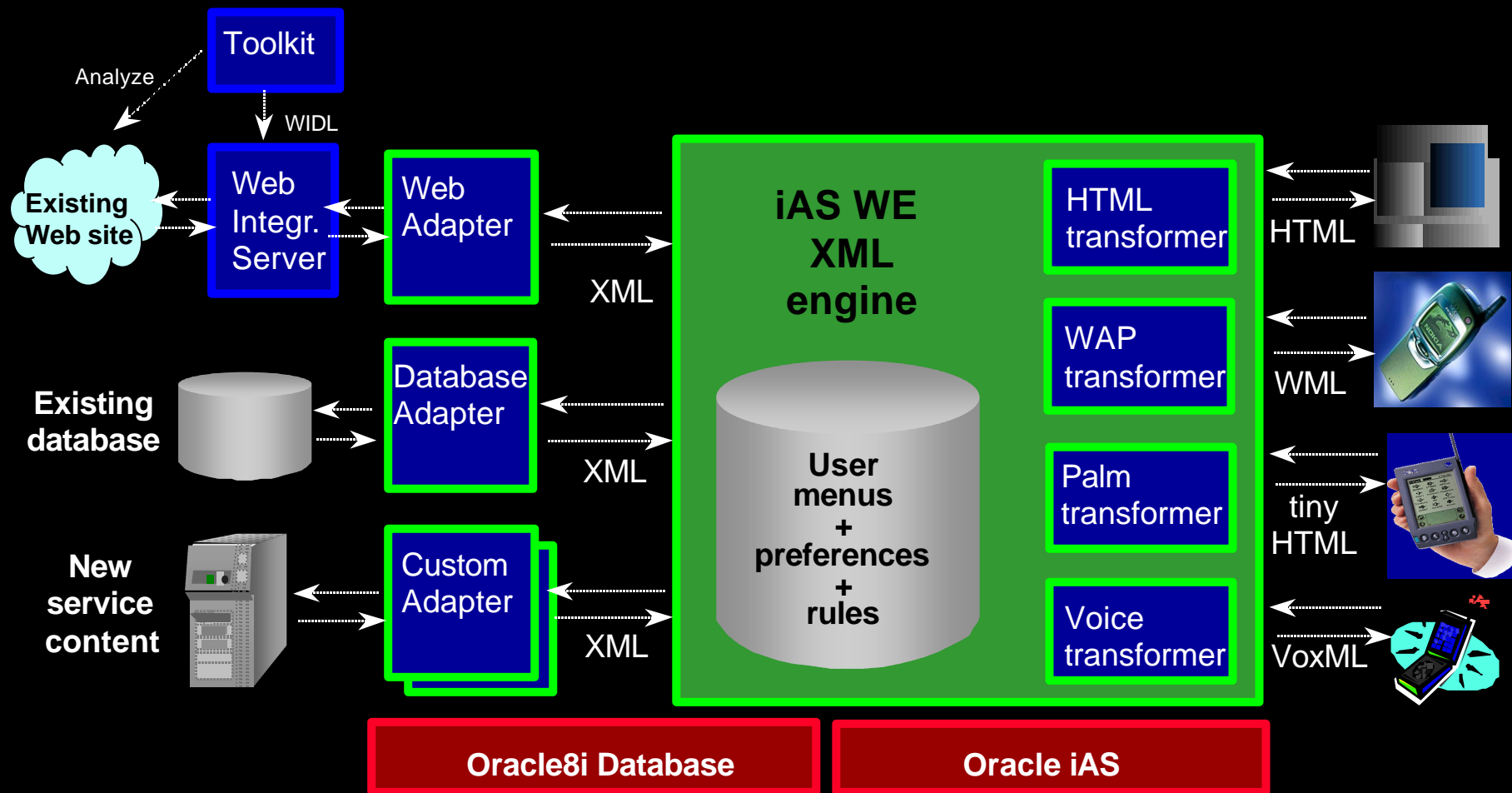


“Services”

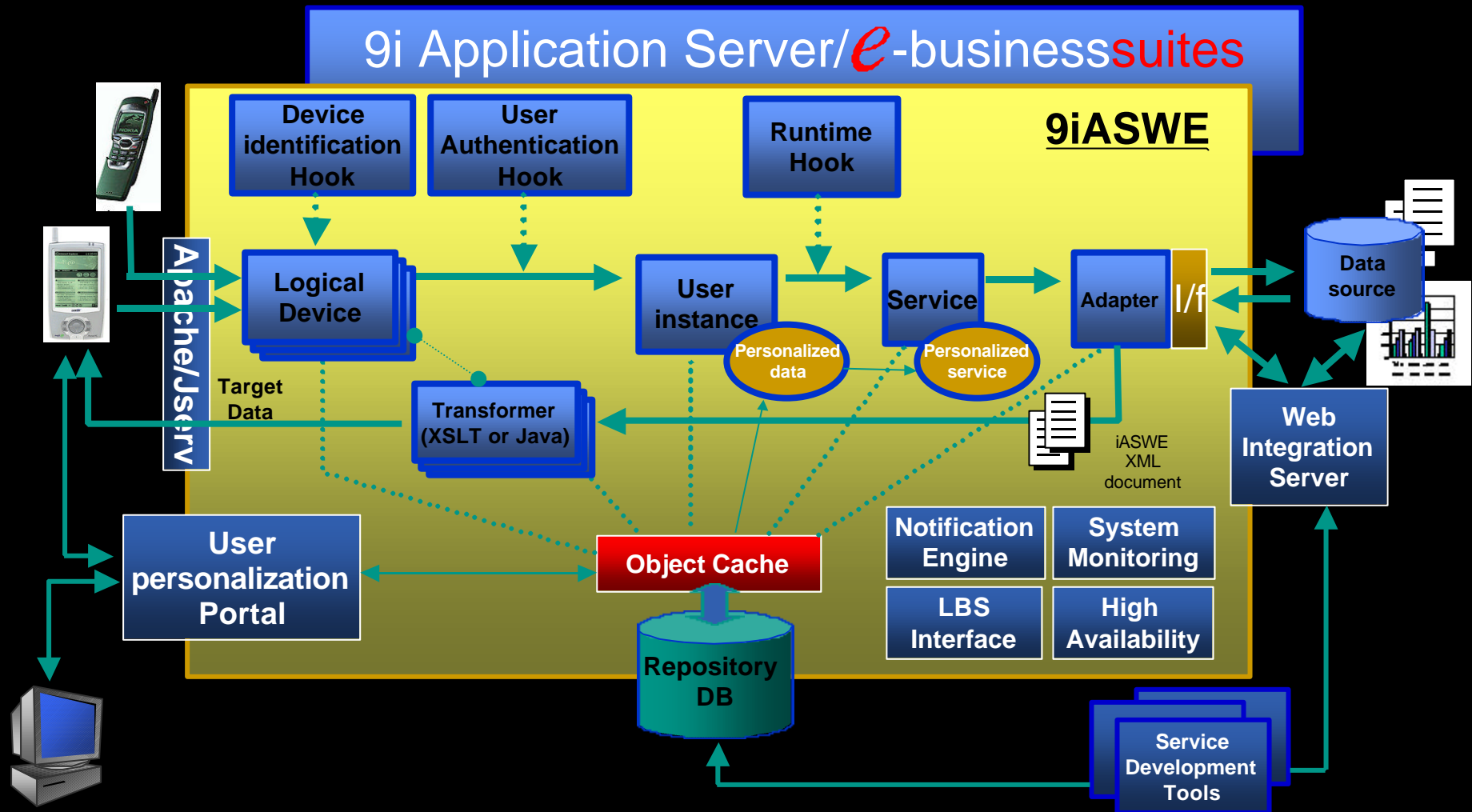
iAS WE



iAS WE Architecture



Overall architecture of 9iASWE



From SQL to XML

```
SELECT empno, ename FROM emp
```



```
<SimpleResult>
  <SimpleTable>
    <SimpleTableHeader>
      <SimpleCol>EMPNO</SimpleCol>
      <SimpleCol>ENAME</SimpleCol>
    </SimpleTableHeader>
    <SimpleTableBody>
      <SimpleRow>
        <SimpleCol>7369</SimpleCol>
        <SimpleCol>SMITH</SimpleCol>
      </SimpleRow>
    </SimpleTableBody>
  </SimpleTable>
</SimpleResult>
```

HTML stylesheet: XSL_{HTML}

```
<xsl:template match="SimpleTable">
  <table border="1" bgcolor="#FFFFFF"
        cellpadding="1" width="100%">
    <xsl:apply-templates/>
  </table>
</xsl:template>
<xsl:template match="SimpleTableHeader">
  <tr>
    <xsl:for-each select="./SimpleCol">
      <td><strong><xsl:value-of
        select="."/></strong></td>
    </xsl:for-each>
  </tr>
  ...

```

XSL processing:

$\text{XSL}_{\text{HTML}} + \text{XML} > \text{HTML}$

```
<xsl:template match="SimpleTable">
  <table border="1" bgcolor="#FFFFFF"
    cellspacing="1" width="100%">
    <xsl:apply-templates/>
  </table>
</xsl:template>
<xsl:template match="SimpleTableHeader">
  <tr>
    <xsl:for-each select="...">
      <td><strong><xsl:apply-templates/></strong>
    </xsl:for-each>
  </tr>
  ...

```

```
<SimpleResult>
  <SimpleTable>
    <SimpleTableHeader>
      <SimpleCol>EMPNO</SimpleCol>
      <SimpleCol>ENAME</SimpleCol>
    </SimpleTableHeader>
    <SimpleTableBody>

```

```
<table border="1" bgcolor="#FFFFFF"
  cellspacing="1" width="100%">
  <tr>
    <td><strong>EMPNO</strong></td>
    <td><strong>ENAME</strong></td>
  </tr>
  <tr>
    <td valign="top">7369</td>
    <td valign="top">SMITH</td>
  </tr>

```

```
7369</SimpleCol>
SMITH</SimpleCol>

```

HTML result

EMPNO	ENAME
7369	SMITH
7499	ALLEN
7521	WARD

```
<table border="1" bgcolor="#FFFFFF"
      cellpadding="1" width="100%">
  <tr>
    <td><strong>EMPNO</strong></td>
    <td><strong>ENAME</strong></td>
  </tr>
  <tr>
    <td valign="top">7369</td>
    <td valign="top">SMITH</td>
  </tr>
```

XSL processing: $\text{XSL}_{\text{WML}} + \text{XML} > \text{WML}$

```
...  
<xsl:template match="SimpleTable">  
  <table columns="2">  
    <xsl:apply-templates/>  
  </table>  
</xsl:template>  
<xsl:template  
  match="SimpleTableHeader">  
  <tr>  
    <xsl:for-each>  
      <td><xsl:value-of/>  
    </xsl:for-each>  
  </tr>  
</xsl:template>  
...
```

```
<template><do type="prev"  
  label="Back"><prev/></do></template>  
<card title=""><p>  
  <table columns="2">  
    <tr><td>EMPNO</td><td>ENAME</td></tr>  
    <tr><td>7369</td><td>SMITH</td></tr>  
  </table>  
</card>  
...
```

```
<SimpleResult>  
  <SimpleTable>  
    <SimpleTableHeader>  
      <SimpleCol>EMPNO</SimpleCol>  
      <SimpleCol>ENAME</SimpleCol>  
    </SimpleTableHeader>  
    <SimpleTableBody>  
      <SimpleRow>  
        <SimpleCol>7369</SimpleCol>  
        <SimpleCol>SMITH</SimpleCol>  
      </SimpleRow>  
    </SimpleTableBody>  
  </SimpleTable>  
</SimpleResult>
```

WML result

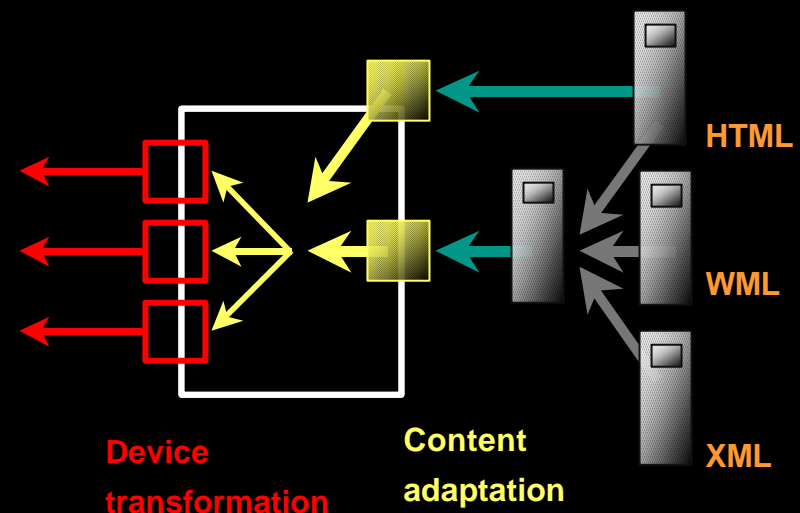
EMPNO	ENAME
7369	SMITH
7499	ALLEN
7521	WARD

OK

```
<template><do type="prev"
  label="Back"><prev/></do></template>
<card title=""><p>
  <table columns="2">
    <tr><td>EMPNO</td><td>ENAME</td></tr>
    <tr><td>7369</td><td>SMITH</td></tr>
    ...
  </table>
</card>
...
```

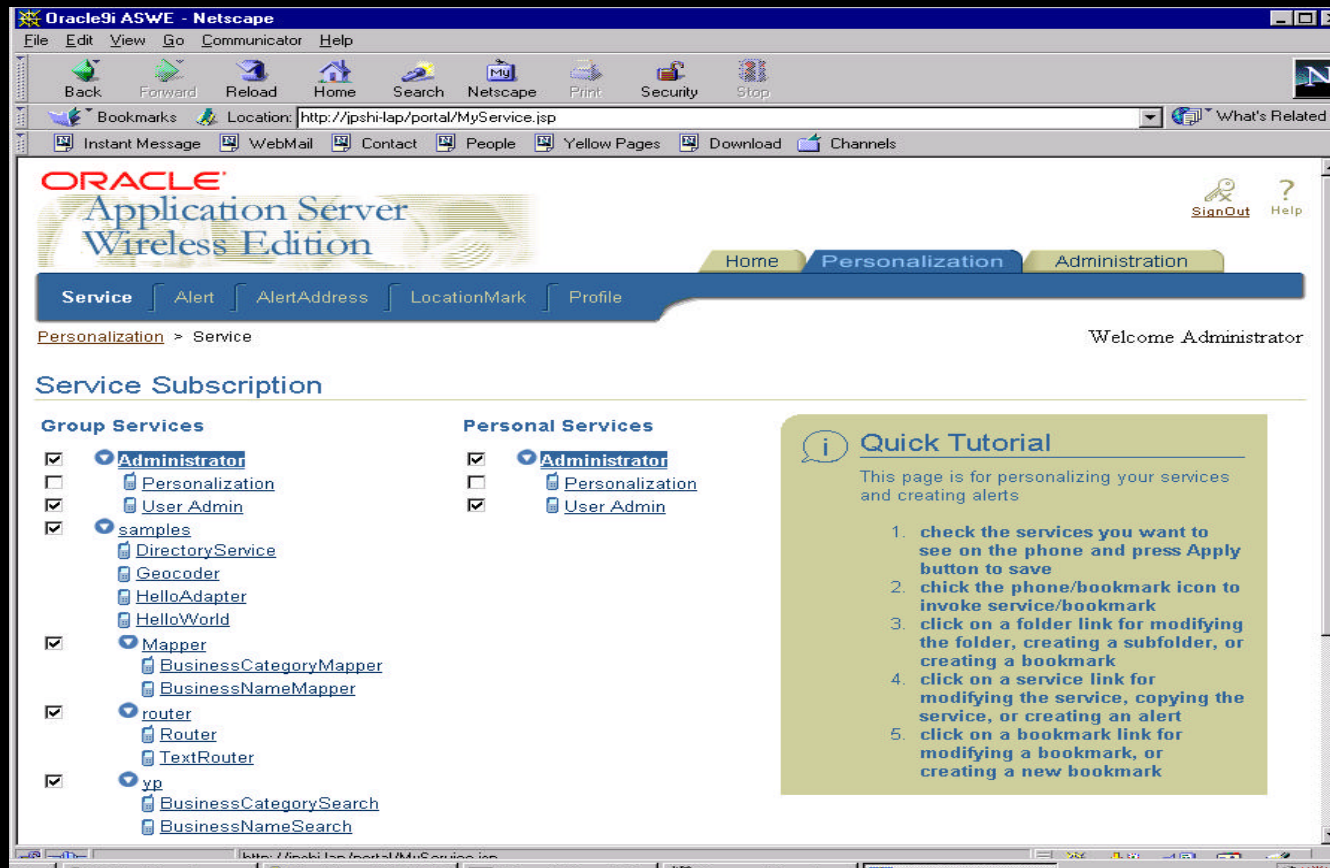

iAS Wireless Edition Adapters

- SQL Adapter
 - SQL, PL/SQL
- LDAP Adapter
 - Directory services
 - JNDI
- Mail Adapter
 - POP3 / IMAP4
 - read/send/delete/forward/reply
- URL Adapter
 - Supports parameterization, cookies
 - Integrate with Java, JSP, XML
- Servlet Adapter
 - Integrate servlets
 - Runs locally on 9iAS WE
- Spatial Adapters
- Custom Adapter
 - custom adapter APIs - Java, XML
- Provisioning Adapter

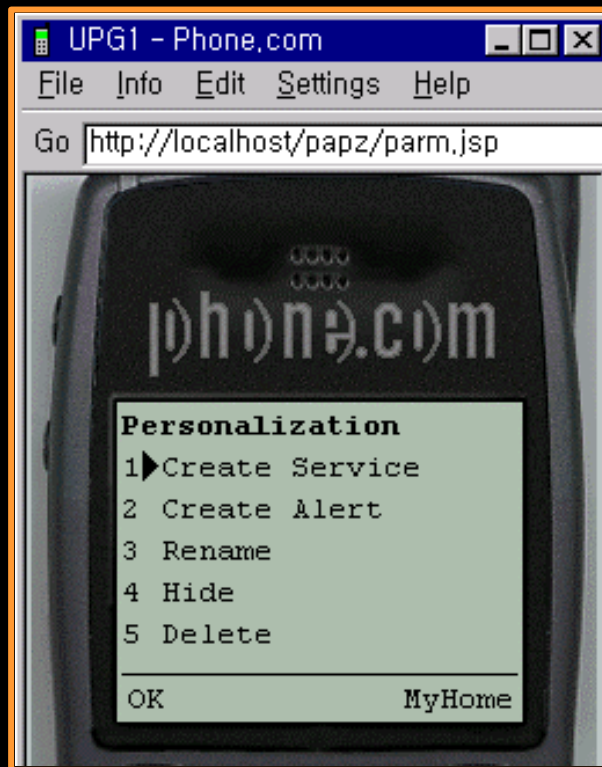


9i AS Wireless Edition

Personalization Portal



Personalization



Papz Lite



- / / /

- **Show / Hide**



- / / / /

- **Show / Hide**



Alert / Alert Address



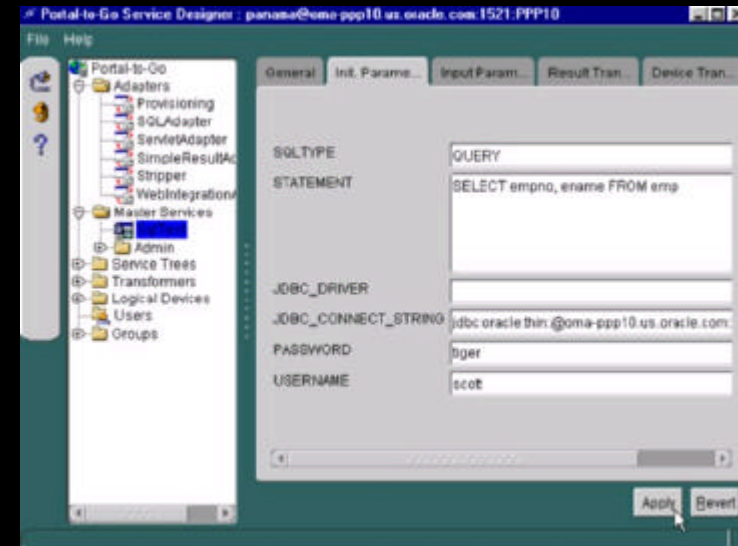
Location Mark



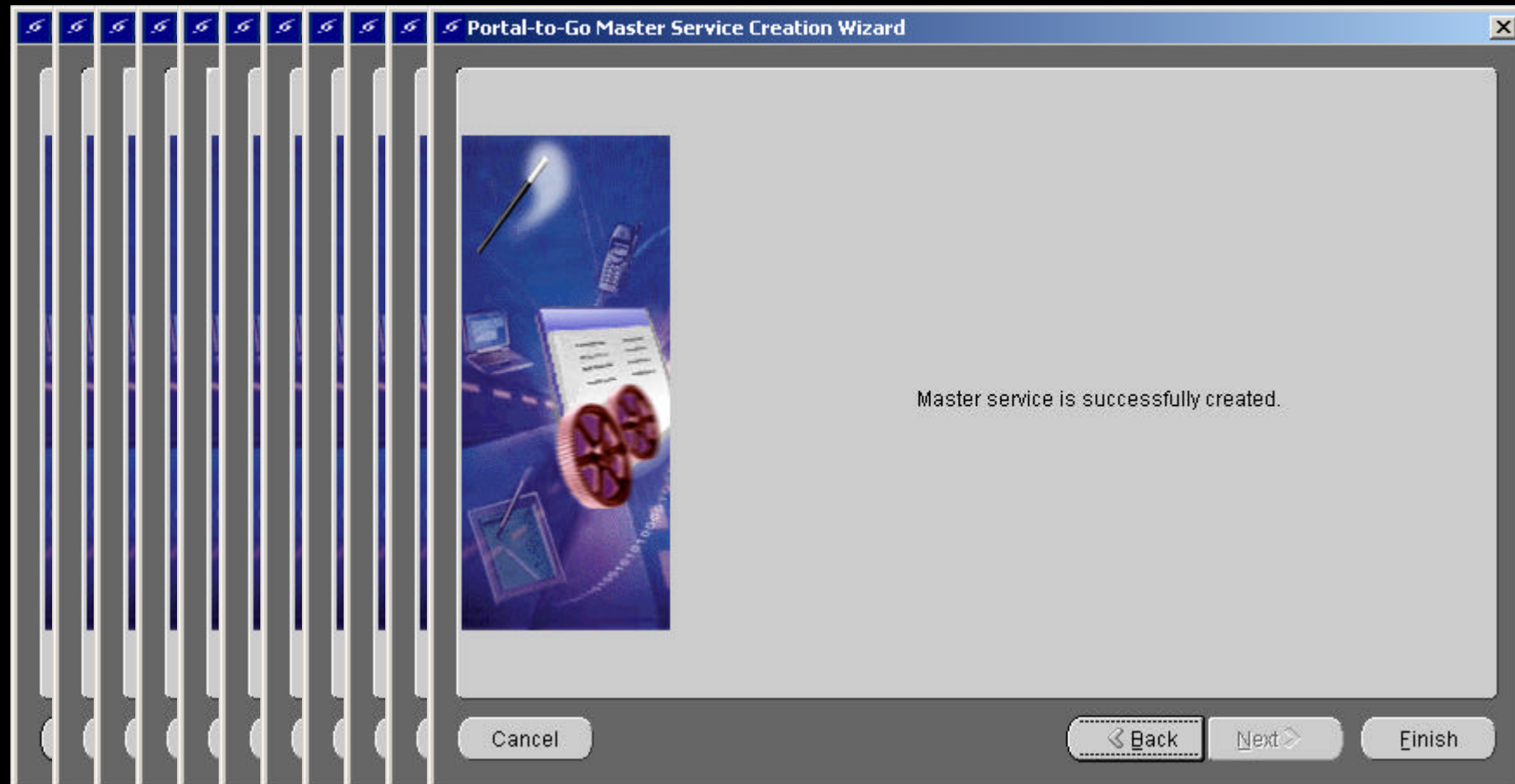
Profile

Service Designer

- PASD



Master Service Creation Wizard



Transformer Tester Tool

service

Logical Device

User Agent

!

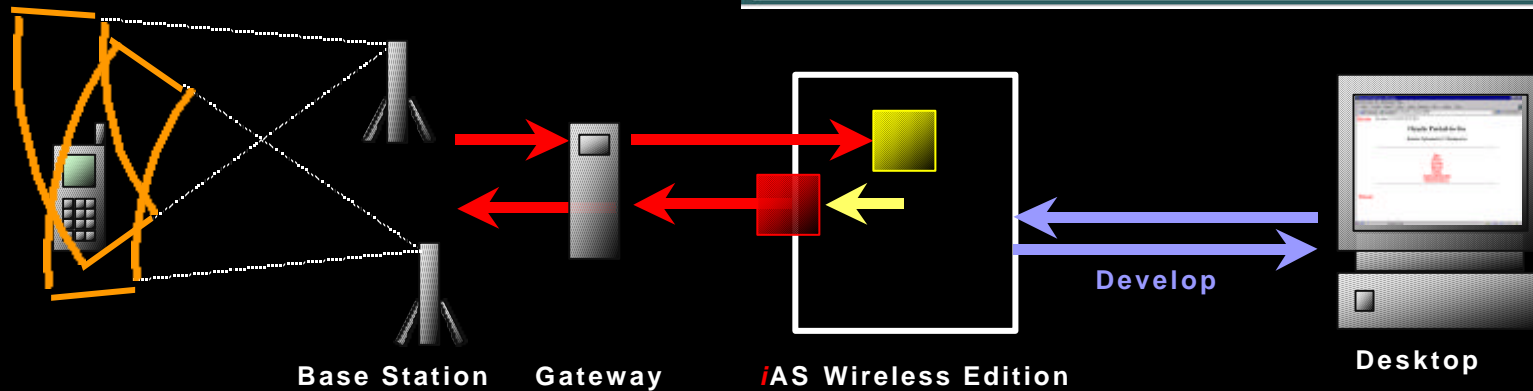
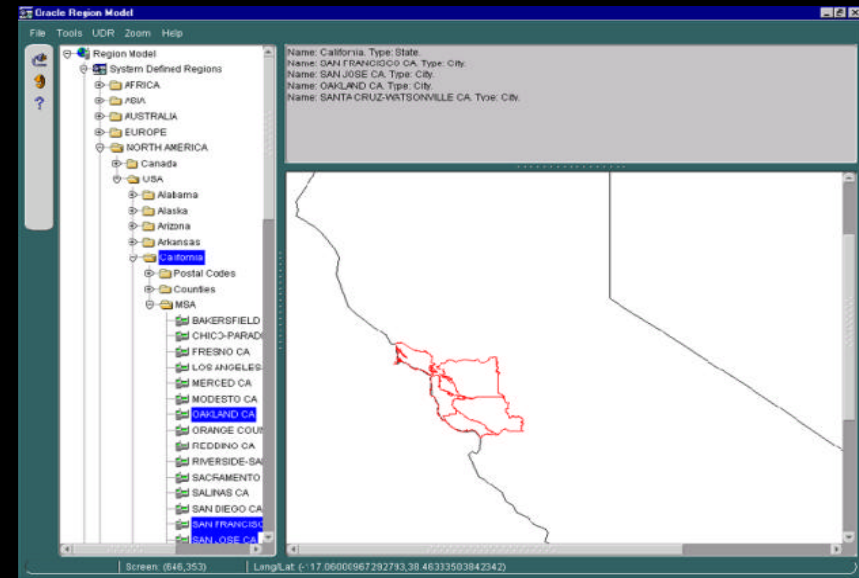
The screenshot shows the 'Transformer Testing Tool' window. On the left, there are input fields for 'Service' (set to 'Personalization'), 'Logical Device' (set to 'Ericsson'), and 'User Agent' (set to 'R380'). A yellow callout bubble labeled 'service' points to the 'Service' field. Another yellow callout bubble labeled 'Logical Device' points to the 'Logical Device' field. A third yellow callout bubble labeled 'User Agent' points to the 'User Agent' field. A fourth yellow callout bubble labeled '!' points to the 'Run' button. To the right of these fields is a 'Run' button. Below the input fields is a tabbed interface with tabs for 'Adapter', 'ResultTransformer', 'SimpleResult', 'DeviceTransformer', and 'TargetResult'. The 'SimpleResult' tab is selected, showing an XML output. The XML content is as follows:

```
<?xml version = '1.0' encoding = 'UTF-8'?>
<SimpleResult>
  <SimpleContainer name="papzm">
    <SimpleText>
      <SimpleTextItem name="">Edit</SimpleTextItem>
    </SimpleText>
    <SimpleMenu name="" title="">
      <SimpleMenuItem
target="/ptg/rm?PAid=EvXxc&#38;PAkey=0!&#38;JServSessionIdroot=1dd7jcosv4">[. ]Home</SimpleMenuItem>
      <SimpleMenuItem
target="/ptg/rm?PAid=EvXxc&#38;PAkey=1!&#38;JServSessionIdroot=1dd7jcosv4">Personalization</SimpleMenuI
tem>
      <SimpleMenuItem
target="/ptg/rm?PAid=EvXxc&#38;PAkey=2!&#38;JServSessionIdroot=1dd7jcosv4">[SQL
Services]</SimpleMenuItem>
      <SimpleMenuItem
```

On the right side of the window, there is a table with columns 'Name', 'Caption', 'Comment', and 'User Customi'. The table contains the text 'Input Parameters ?' in red. Below the table are buttons for 'Add', 'Delete', and 'Reset'.

LBS / Service Designer

가
Region Modeling
Tool



ORACLE®

LBS

- Oracle Spatial database
- Region Modeling Tool
- Geo-coding Adapter
- Routing Adapter
- Yellow Page Adapter

Oracle Spatial Database

-

- function procedure

-

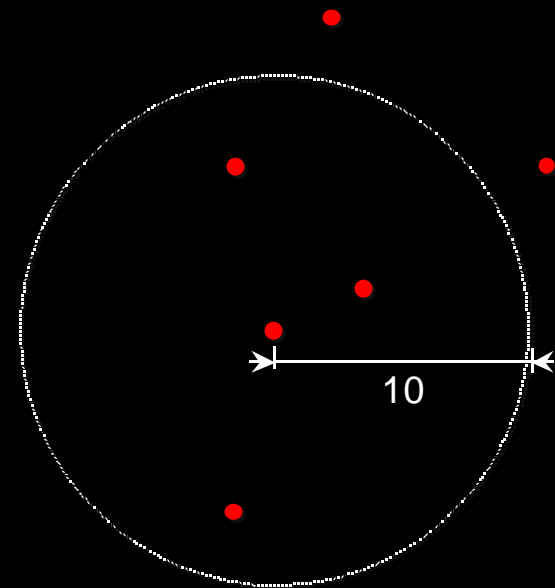
가

- / /
 - / / / /

-

:

- “ ... ”



```
SELECT A.GID FROM POLYGONS A
WHERE SDO_WITHIN_DISTANCE
(A.Geometry,:aGeom,' distance=10')='TRUE' ;
```

LocationMark

The screenshot shows a Netscape browser window titled "Oracle9i ASWE - Netscape". The address bar displays "http://jpshi-lap/portal/MyLandmark.jsp?". The page content includes the Oracle Application Server Wireless Edition logo, navigation tabs for Home, Personalization, and Administration, and a sub-navigation bar with Service, Alert, AlertAddress, LocationMark, and Profile. The LocationMark tab is active, showing a "LocationMark List" page. The page includes a table with two rows: "MyHome" (Default: true) and "MyOffice" (Default: false). Buttons for "Delete", "SetDefault", and "Edit" are available for the selected location mark. A "Create" button is also present. A "Quick Tutorial" box on the right provides instructions for creating, updating, deleting, and setting default location marks.

ORACLE[®] Application Server Wireless Edition

SignOut Help

Home Personalization Administration

Service Alert AlertAddress LocationMark Profile

Personalization > LocationMark Welcome jpshi

LocationMark List

For Selected LocationMark Delete SetDefault Edit

Select	LocationMark Name	LocationMark Description	Default
<input checked="" type="radio"/>	MyHome		true
<input type="radio"/>	MyOffice		false

Create

Quick Tutorial

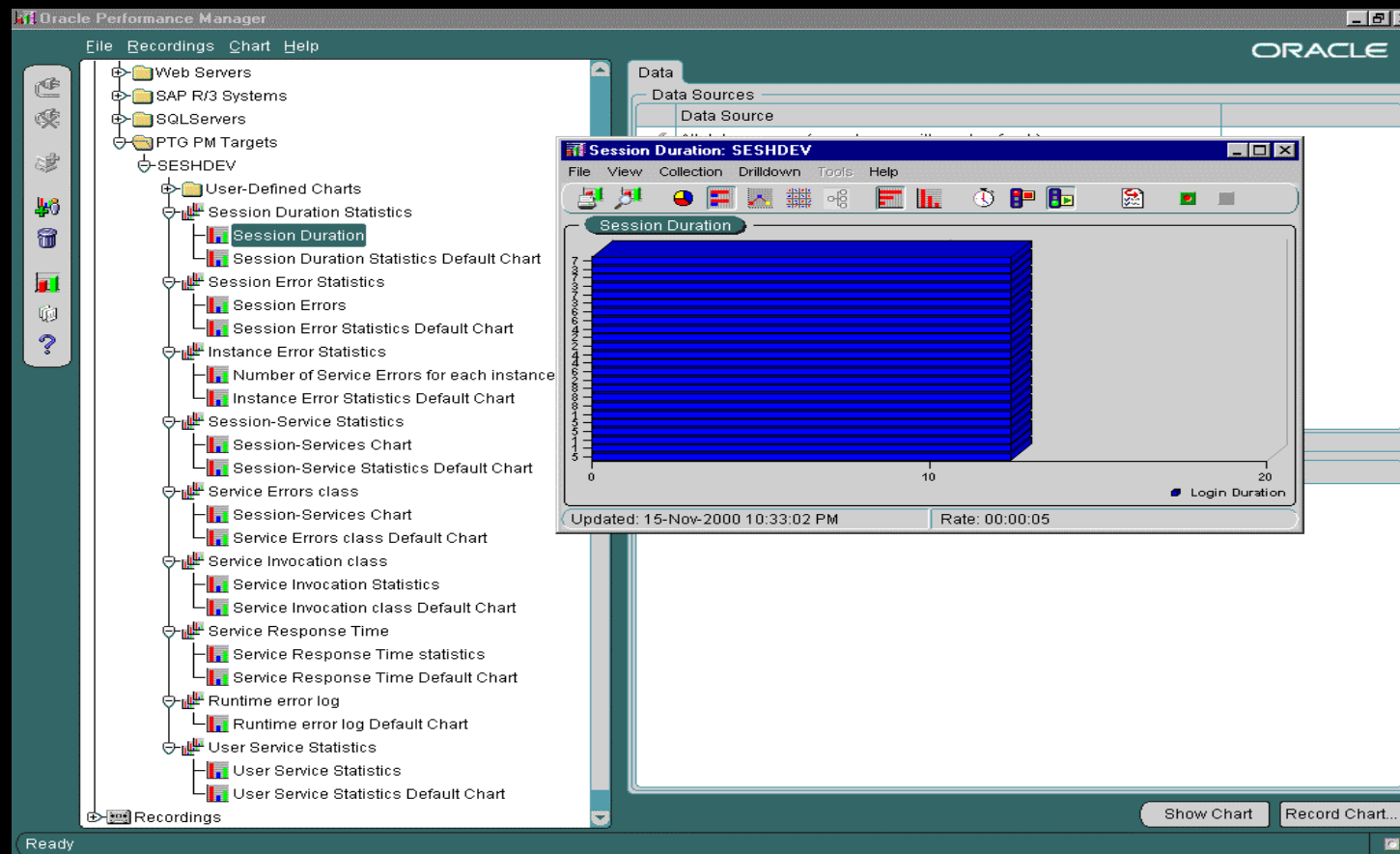
This page is for personalizing your location marks

1. click on Create button to create a location mark
2. select an location mark and press Edit button to update the information
3. select an location mark and press Delete button to remove the location mark
4. select an location mark and press SetDefault button to set the default location mark

Oracle Enterprise Manager

- Performance Monitoring
 - session duration, session error, instance error, service, service error, service invocation, service response, runtime error, user 가
- Fault Management
 - PTG Server Error
 - Performance
- Configuration Management
 - connection pool , debug on/off
- OEM 2.2 가

Performance Monitoring



Fault Management

The screenshot displays the Oracle Enterprise Manager Console Administrator interface. The title bar indicates the connection to 'SYSMAN Management Server:sevenkat-sun.us.oracle.com'. The interface is divided into several sections:

- Navigator:** A tree view on the left showing the hierarchy of components. Under 'Network', the following items are listed: Databases, Groups, Listeners, Nodes, Portal-to-go, PTG1, Connection Pool, Dispatcher Pool, Requestor Pool, Runtime Trace, PTG2, Web Servers, and Developer Servers.
- Group:** A dropdown menu set to 'SYSDBA'.
- Jobs:** A section with 'Active' and 'History' tabs. The 'Active' tab is currently selected, showing a table with columns 'Name' and 'Destination'.
- Events:** A section with 'Alerts', 'Registered', and 'History' tabs. The 'Registered' tab is selected, displaying a table of events.

The 'Events' table contains the following data:

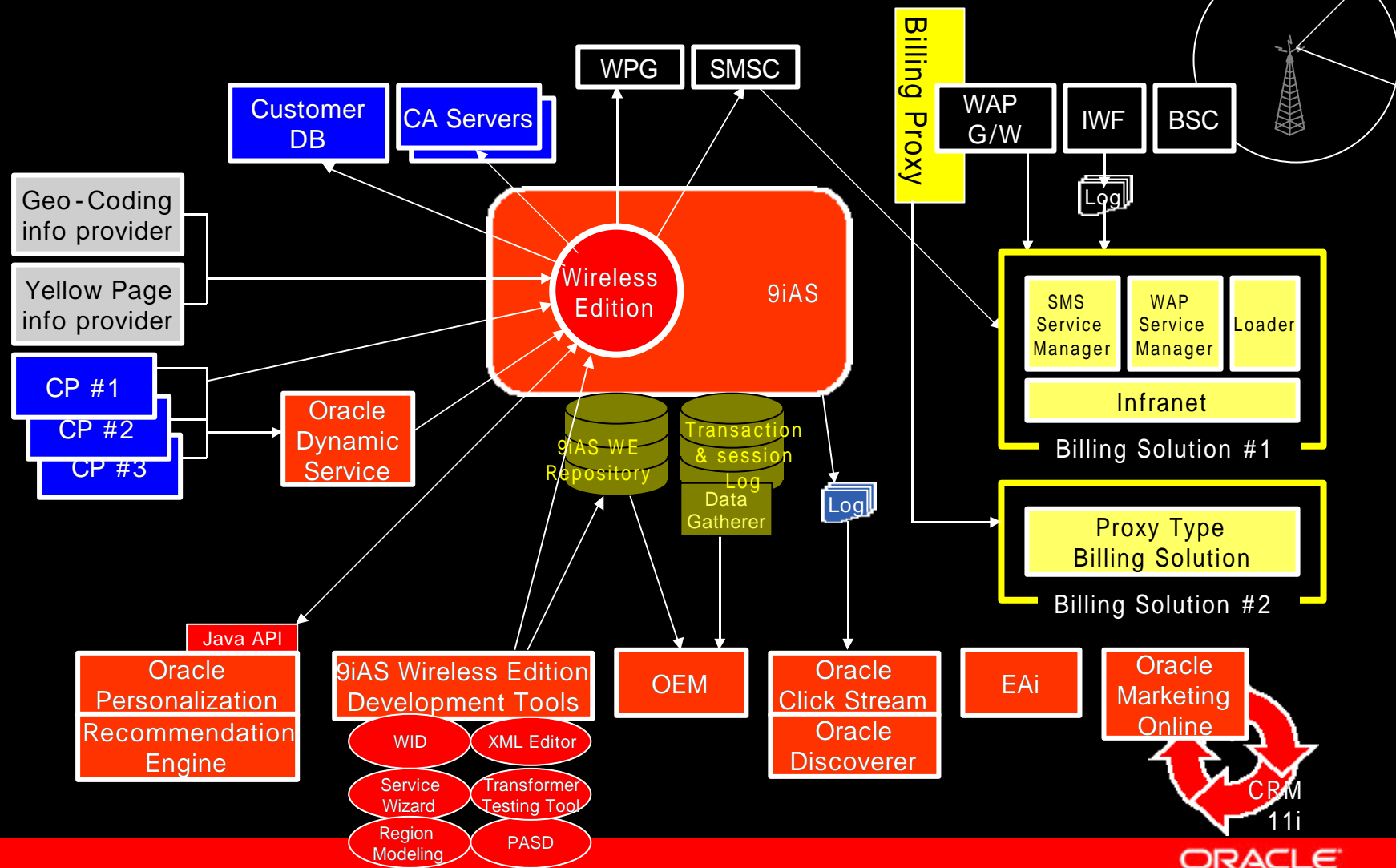
Severity	Event	Target	Target Type	Date/
	unsol_evt1	agenttest	Database	30-O
	unsol_evt3	agenttest	Database	30-O
	newNodeEvent	dlsun1795.us.oracle.com	Node	07-N
	mynodeevent	sevenkat-sun	Node	08-N
	newNodeEvent	sevenkat-sun	Node	08-N
	Nov10Event	sevenkat-pc.us.oracle.com	Node	10-N
	try threshold	sevenkat-pc.us.oracle.com	Node	15-N

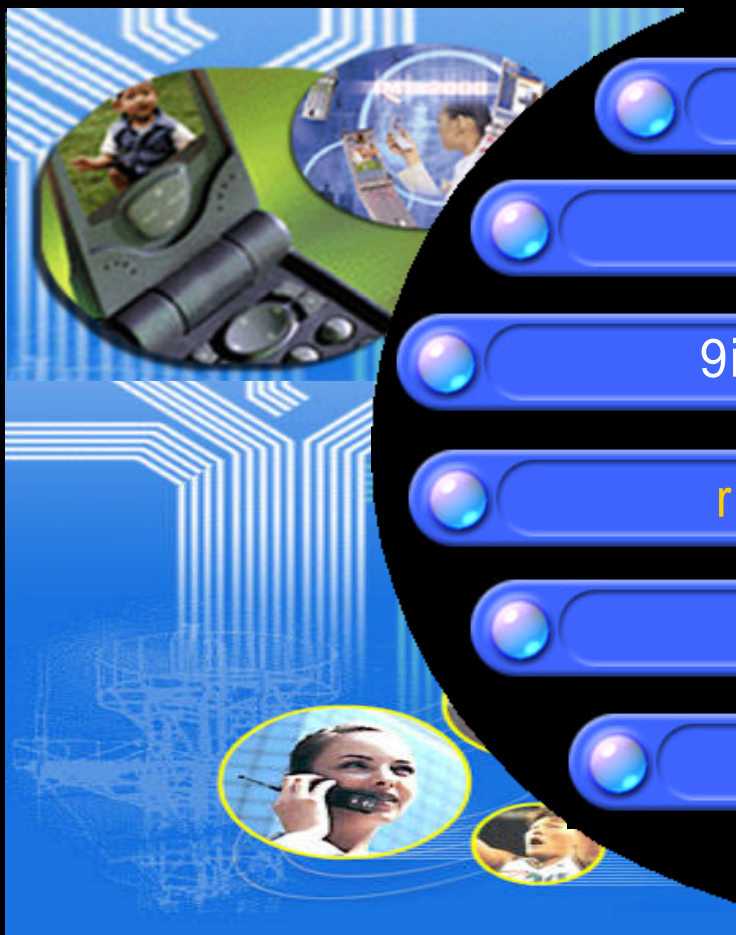
Configuration Management

The screenshot displays the Oracle Enterprise Manager Console interface. The title bar indicates the user is Administrator:SYSMAN Management Server:sevenkat-sun.us.oracle.com. The main window is divided into several panes. On the left, the 'Navigator' pane shows a tree structure with 'Network' expanded, leading to 'PTG1', then 'Connection Pool', and finally 'Dispatcher Pool'. A small dialog box titled 'Increment Pool Size' is open over the 'Dispatcher Pool' node, showing 'Increment By: 5' and a 'Submit' button. The 'Jobs' pane at the bottom left is empty. The 'Events' pane at the bottom right shows a table of events.

Severity	Event	Target
Warning	unsol_evt1	agenttest
Warning	unsol_evt3	agenttest
Warning	newNodeEvent	disun1795.us.or
Warning	mynodeevent	sevenkat-sun
Warning	newNodeEvent	sevenkat-sun
Warning	Nov10Event	sevenkat-pc.us.c
Warning	try threshold	sevenkat-sun

System Architecture using iASWE





9iAS Wireless Edition

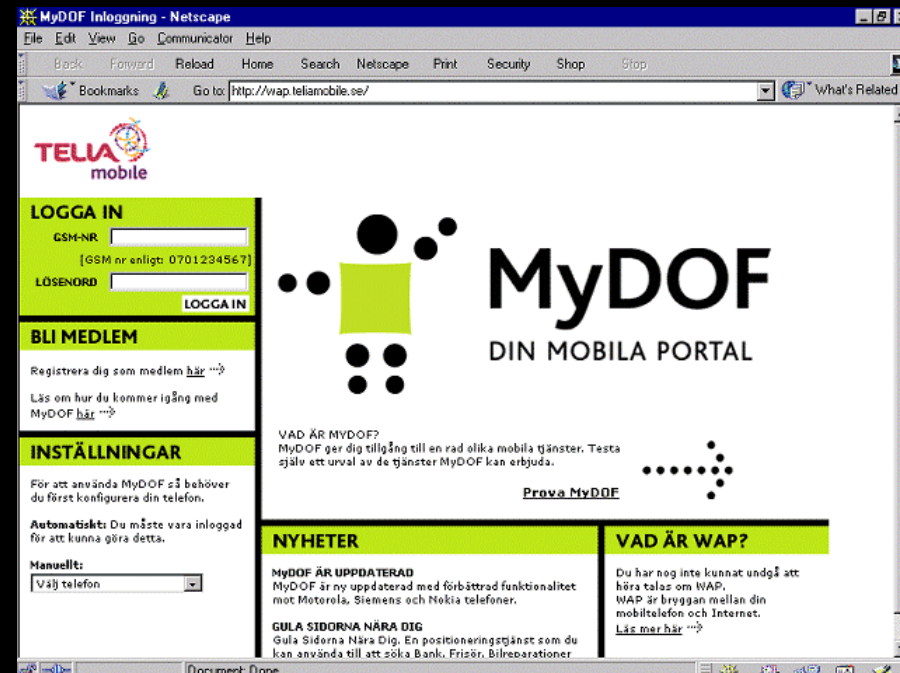
reference

References: Telcos

- TELIA MOBILE

- SWEDEN
- Telecom company

- www.telia.se



References: Telcos

- VIZZAVI

- FRANCE
- Telecom company
- Vodafone / Vivendi
- Started June, 2000
- 1 Million users by the end of the year
- 200 services

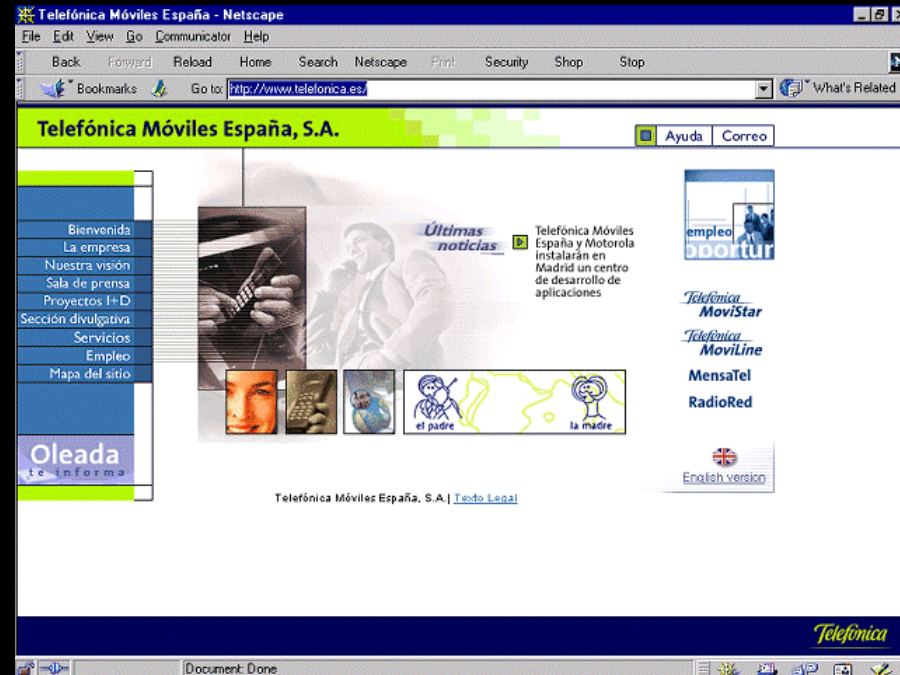
- www.vizzavi.fr



References: Telcos

- TELEFÓNICA MÓVILES
 - SPAIN
 - Telecom company

- www.telefonica.es

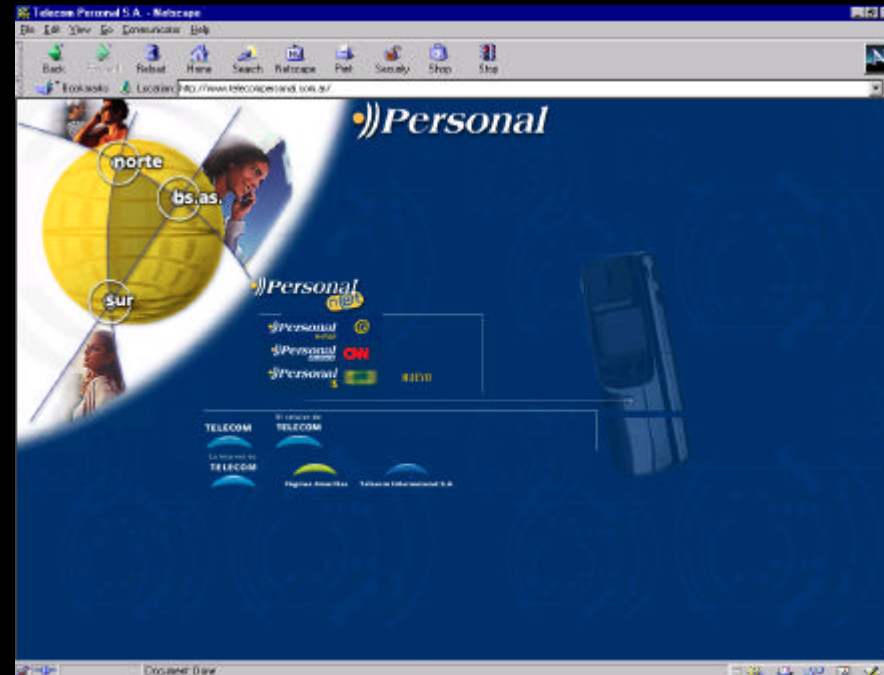


References: Telcos

- TELECOM PERSONAL

- Argentina
- Telecom company

- www.telecompersonal.com.ar



References: Services

- GO AMERICA
 - USA
 - Online services

- www.goamerica.net



References: Services

- iBAZAR

- FRANCE
- On-line auctions

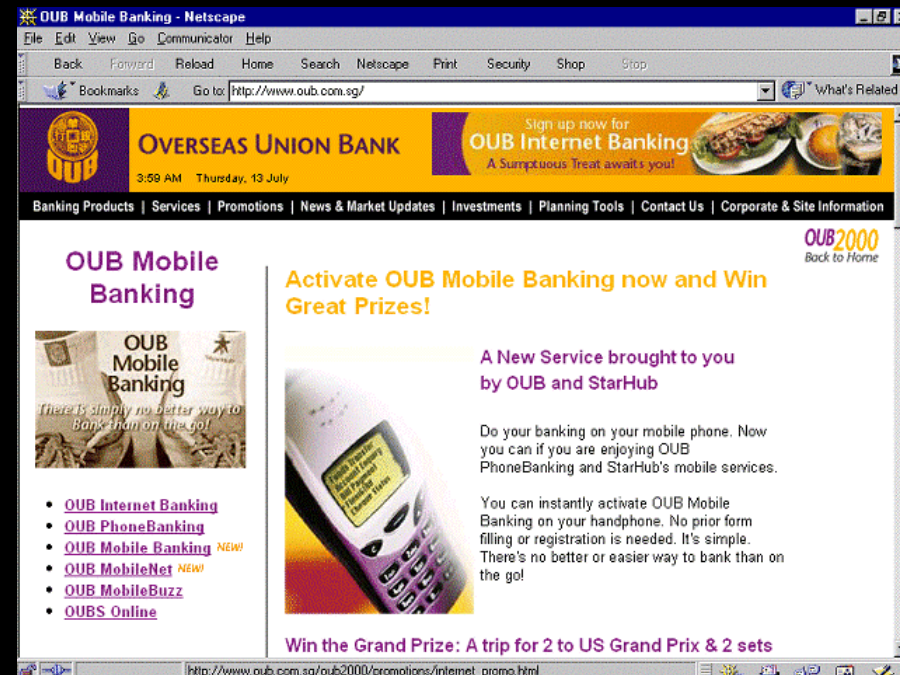
- www.ibazar.fr



References: Banks

- OVERSEAS
UNION BANK
– SINGAPORE
www.oub.com.sg

- www.oub.com.sg



References: Dot coms

- DRUG EMPORIUM

- USA
- Dot Com company

- www.drugemporium.com



References: Portals

- LYCOS ASIA

- SINGAPORE
- Web portal
- First major portal in Asia to bring the Internet on mobile phones.

- www.lycosasia.com.sg



References: Public portals

- HALEBOP

- SWEDEN
- Public Portal

- www.halebop.com



References: Public portals

- ORACLEMOBILE.COM
 - USA
 - Public portal
- www.oramobile.com

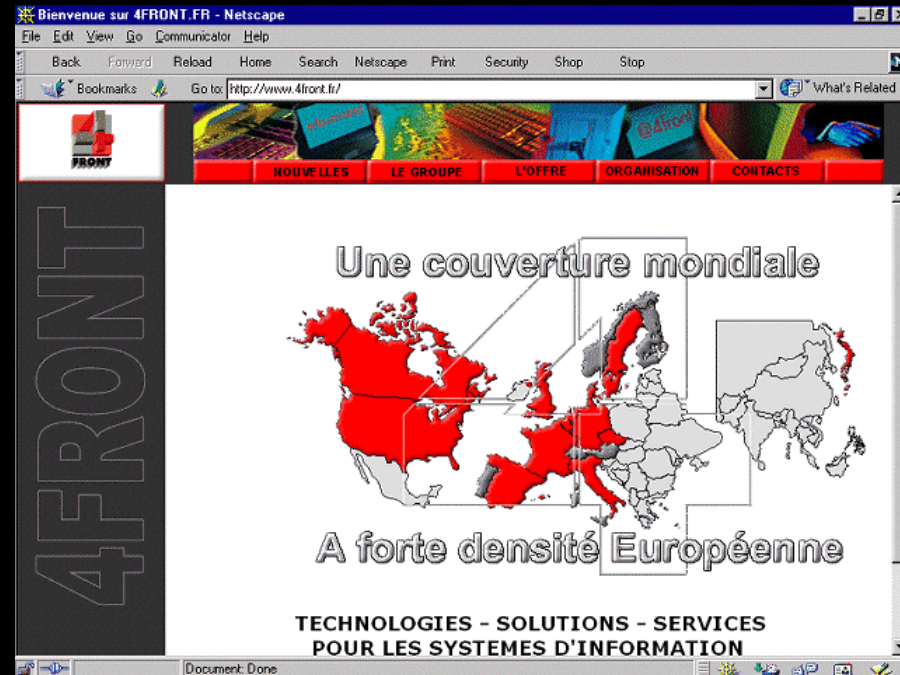


References: Corporate

- 4FRONT

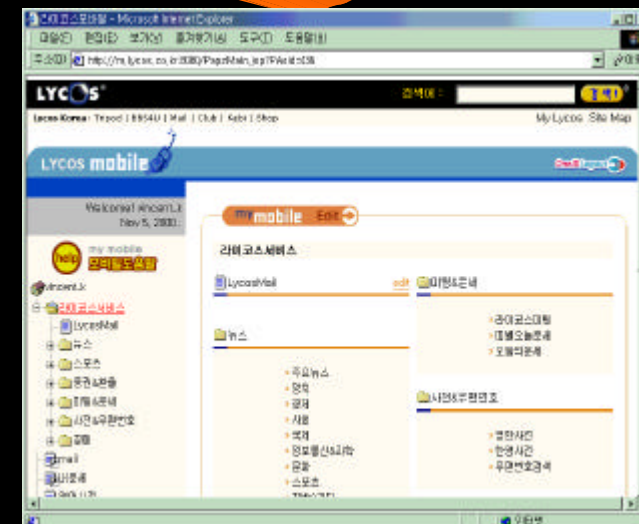
- FRANCE
- Field Services Apps.
CLARIFY CRM
- 200 mobile users
- Nokia, Micropole

- www.4front.fr



Reference : LYCOS KOREA

- Project
 - 2000 7 ~ 9
 - : 2
- Software
 - Oracle 8.1.6 DB
 - 9iAS (ver. 1.0.2.0)
 - 9iAS Wireless Edition (ver. 1.0.2.1)
 - Sun Solaris 2.7
- - Lycos One ID
 - , , , , ,
 - Personalization Portal
 -



Reference : U2U4

- Project

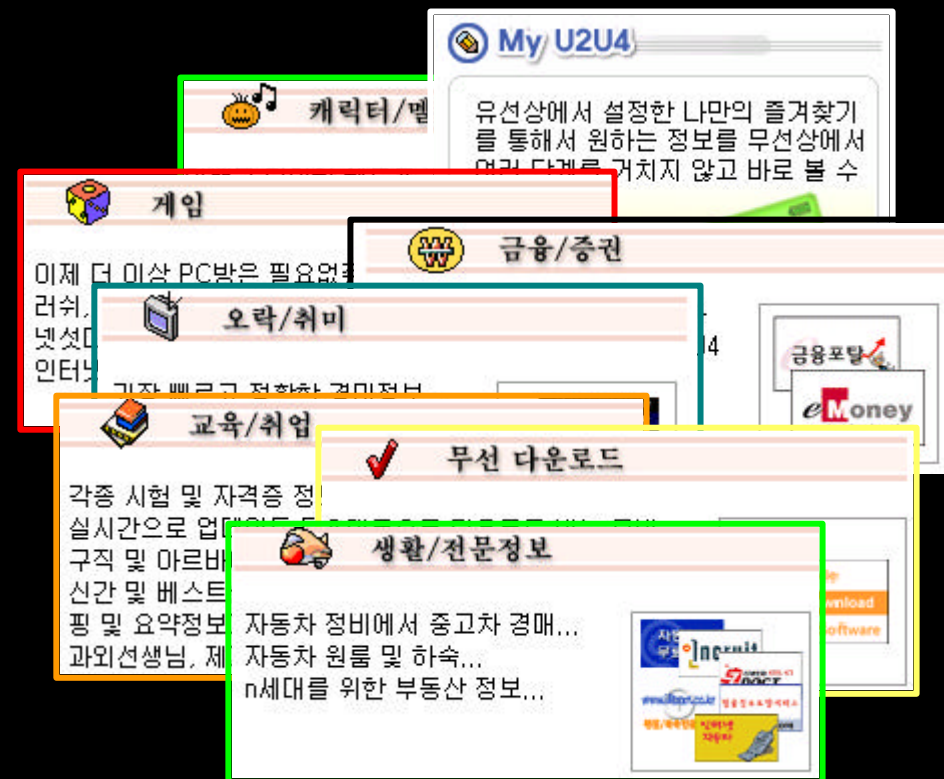
- 2000 10 ~ 11
- : 2

- Software

- Oracle 8.1.6 DB
- OSDK (ver.2, build 44)
- portal-to-go 1.0.2.2.0
- Compaq Digital 4.0F

-

- Single Sign On
- CP
- / , / , / , /
- Personalization Portal



Reference :

- Project
 - 2001 2
 - : 3 ()
- Software
 - Oracle 8.1.6 DB
 - 9iAS (ver.1.0.2.0)
 - 9iAS Wireless Edition 1.0.2.2.0
 - Sun Solaris 2.6
- - Single Sign On
 - Target Device PDA (Compaq iPAQ) Transformer
 - Personalization Portal

Groupware



Reference : KOREA.COM

- Project

- 2001 3 26 ~ 30 pilot project
- 2001 5 28 ~ 6 30
- : 2

- Software

- Oracle 8.1.6 DB
- 9iAS (ver.1.0.2.0)
- 9iAS Wireless Edition 1.0.2.2.0
- Windows 2000 Advanced Server

-

- Single Sign On
- (Exchange 2000 XML Mail contents)
- (SQL server 7)
-



Reference : UNITEL pilot

- Project

- 2000 12 6 ~ 28
- : 2

- Software

- Oracle 8.1.6 DB
- OSDK
- 9iAS Wireless Edition 1.0.2.2.0

-

- www.unimerce.com
- www.uniepay.com
- www.auctrader.com
- www.ecatalogue.com
- mail (pop3, imap)
- weppy

[Unimerce]

1. NewsRoom

2. Board

3. UniEPay

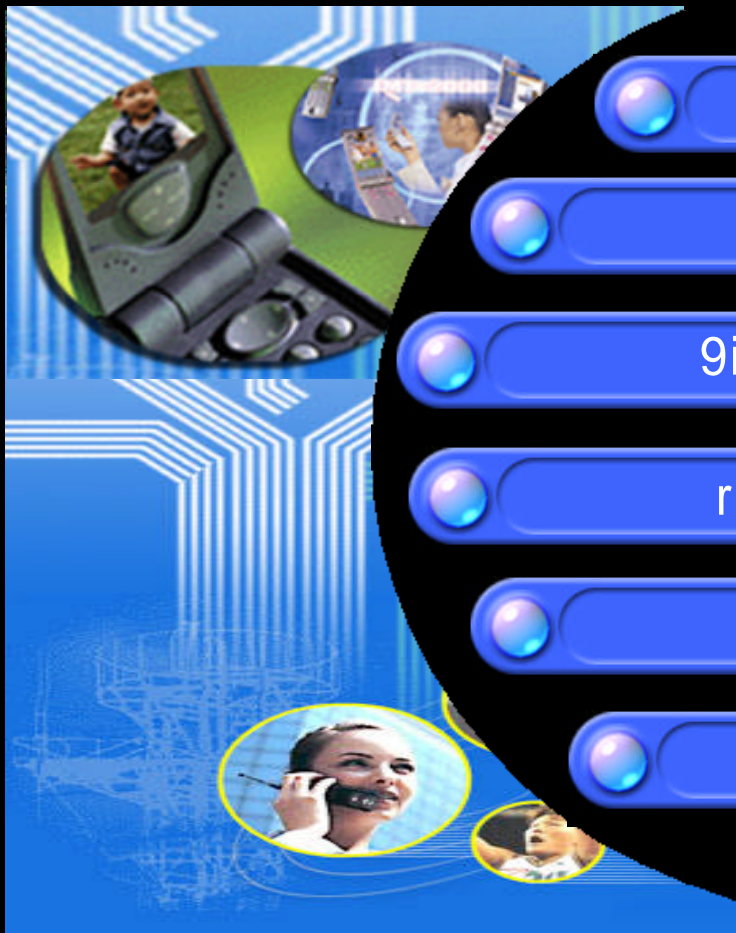
4. Aucrader

5. eCatalogue

6. Mail

7. Address

8. Contact

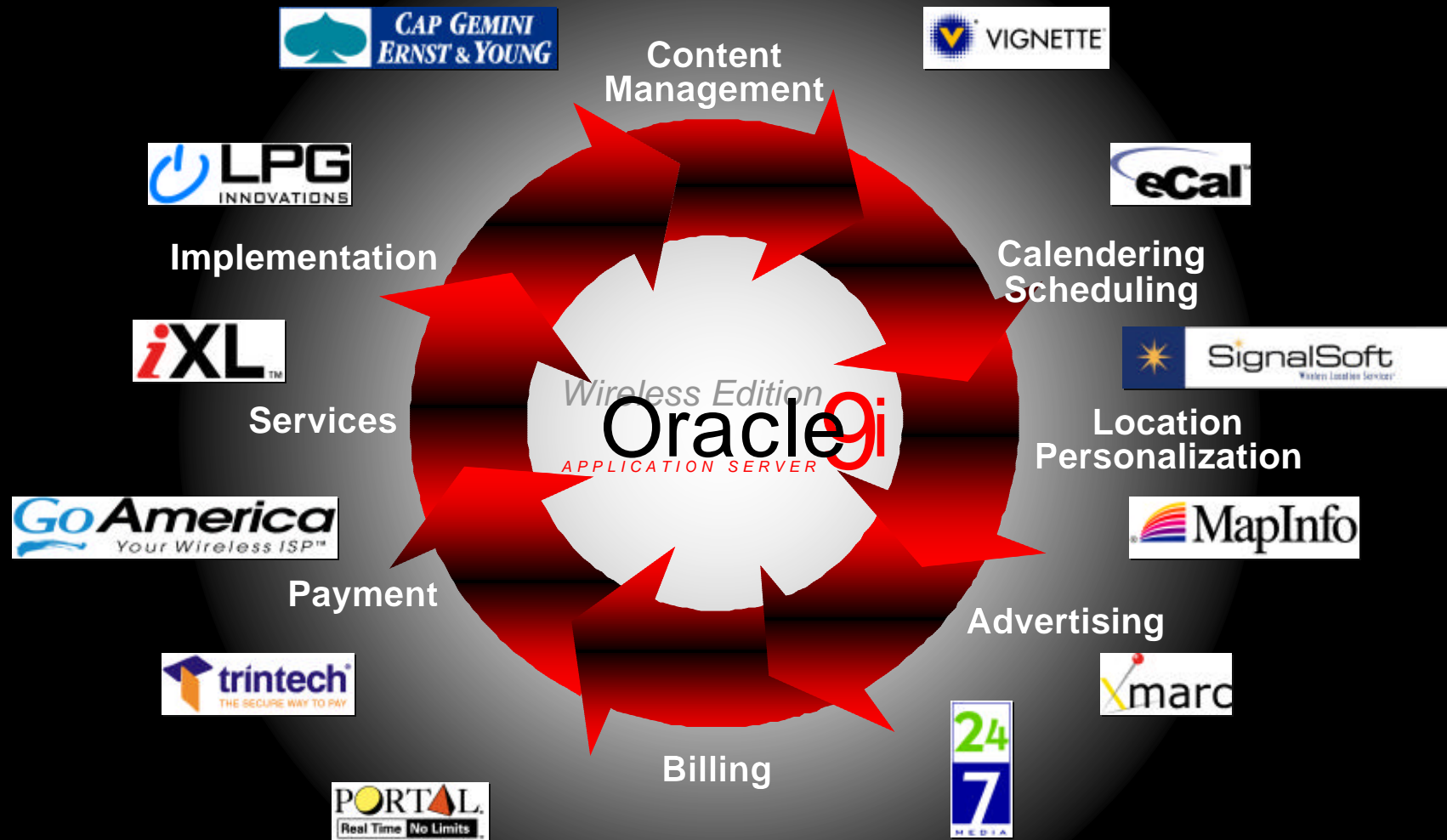


9iAS Wireless Edition

reference

Wireless Partners

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