



# Managing Your Database In a Wireless World

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## Agenda

- Introduction
- A DBA's life
- Handheld Overview
- Today's Business Needs
- PocketDBA / PocketSA Demo
- Wireless Technology Architecture
- Wireless and Database Resources
- Q&A



## Introduction to Ari Kaplan





## Introduction to Ari Kaplan





## Introduction to Ari Kaplan





## A DBA's Life

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### Traits of a DBA

- Tenacity
- Self starter
- Detail oriented
- Curiosity
- Self confidence



## A DBA's Life

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- 100,000 Oracle DBAs in United States
- 4th fastest growing occupation
- Oracle global installed base 200,000 companies
- Oracle 2000 revenue: \$10 billion



## A DBA's Life

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DBA workload demands are increasing:

- Businesses expect more of current staff
- 30% of DBAs report an excessive workload

–Oracle Professional Survey





## A DBA's Life

Almost 30% of DBAs report an excessive workload

Workload	Percent	Average salary
Not enough work	4.0%	\$47,954.54
Steady flow of work	63.7%	\$59,409.72
Excessive workload	29.7%	\$66,250.00
Not Answered	2.6%	



## A DBA's Life

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### DBA salaries

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Salary Range	Percent
Less than \$30,000	11.5%
\$30,000-\$39,999	7.9%
\$40,000-\$49,999	14.2%
\$50,000-\$59,999	12.9%
\$60,000-\$69,999	17.8%
\$70,000-\$79,999	11.3%
\$80,000-\$99,999	11.5%
\$100,000 or more	6.9%
Not answered	5.9%

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## A DBA's Life

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Difficult environment for workers...

- “Dawn of the IT sweatshop” says the Meta Group
- Long hours

High burnout rate / job hopping



## A DBA's Life

According to the Meta Group, the average DBA works more than 50 hours, including six hours on the weekends

Number of employers over the past five years	Percent
1	22.1%
2	34.3%
3	21.5%
4	7.9%
5 or more	5.6%
N/A—freelance	2.3%
Not Answered	6.3%



## Handheld Overview

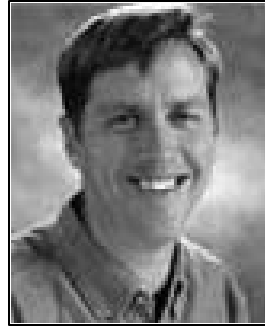
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### Who are these CEOs?

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Carl Yandowski  
CEO Palm Computing



Jeff Hawkins  
Founder and Chairman  
of Handspring



Donna Dubinsky  
Founder and CEO  
of Handspring



Mr. Kouji Ohboshi  
President of NTT DoCoMo



## Handheld Overview

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How many of you have handhelds?

How many of you have wireless handhelds?

How many of your companies bought the handhelds for you?



## Handheld Overview

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### Handheld Sales

- Last year, nearly 10 million PDAs were sold
- Almost double of 1999's sales
- By 2004, everyone from executives to hairdressers will buy some 33 million PDAs



## Handheld Overview

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### Evolution

- Once clunky, overpriced
- Only stored phone numbers and addresses
- Rebirth as sleek wireless accessories
- PDA is now cell phone, electronic wallet and personal entertainment system all rolled up in one





## Handheld Overview

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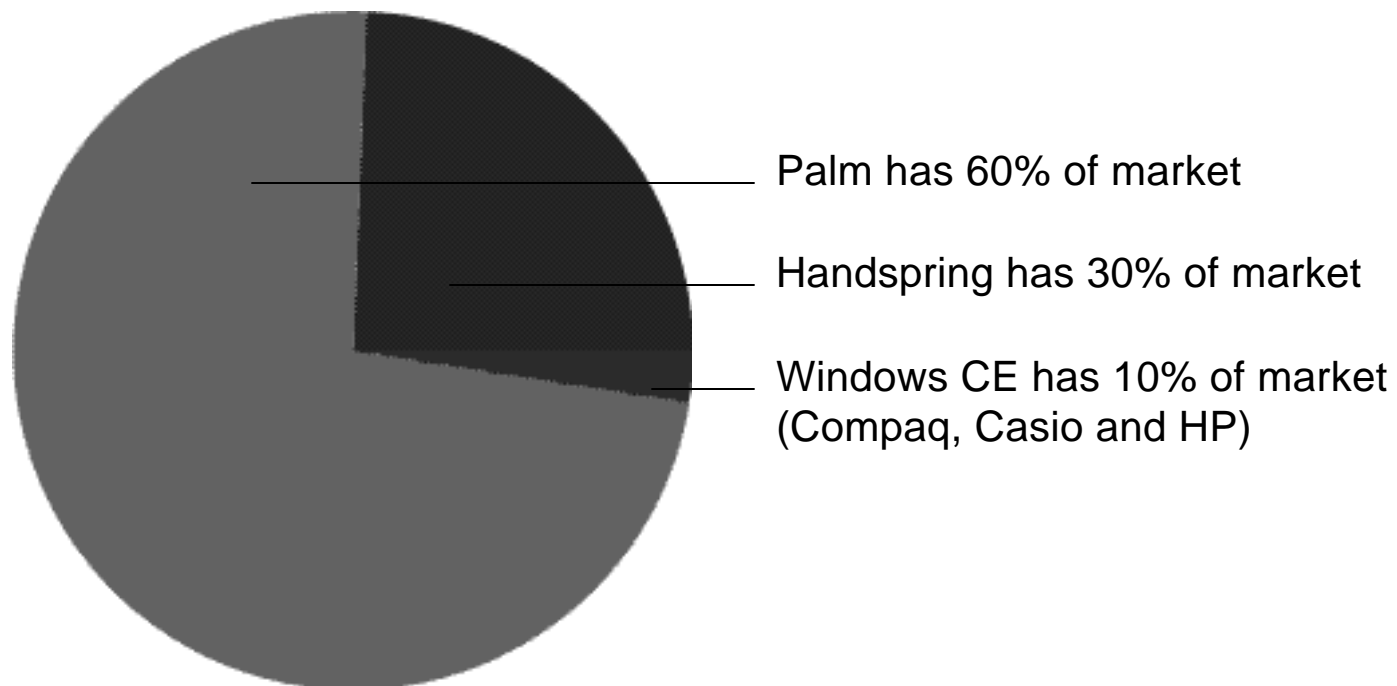
### Evolution

- Movement to enterprise sales, where corporations order thousands of devices
- Palms given to workers like a tool, much like a training manual



## Handheld Overview

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## Handheld Overview

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New Palm OS models launching now

- Each with 8 megabytes of memory
- 33-megahertz processors



## Handheld Overview

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### Handspring Edge (\$400)

- Thin metallic casing like the Palm Vx

### Sony Clie N710C (\$500)

- Packs four-times as many illuminated dots 320 x 320 pixels into Palm.
- Although screen can only show 256 colors at once
- Thumb wheel for navigating
- Memory sticks



## Handheld Overview

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### HandEra Era 330 (\$350)

- Higher resolution screen
- Screen stretches into the Graffiti writing area
- Built-in mike and speaker
- 2 expansion slots



## Handheld Overview

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Palm m500 (\$400)

- Excellent grayscale screen

Palm m505 (\$450)

- Color Palm V



## Today's Business Environment

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- Need for monitoring, managing, and development of databases wirelessly
- Huge business inefficiencies
- Staff currently must conduct work on fixed-line computers
- Lost business when staff is not onsite
- Business are “always open” all day, all night, across time zone



## Today's Business Environment

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### Six Costly Database Challenges: Summary

- DBA 24 x 7 Access
- DBA Response Time
- DBA Productivity
- DBA Retention
- DBA Replacement
- Database Availability





## Today's Business Environment

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### 1. The Challenge of DBA Remote Access

- Businesses are “always open”
- Need for continual monitoring, managing & development of databases and server environment
- But. . .DBAs are restricted by the wired technology of the last century



## Today's Business Environment

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### 1. The Challenge of DBA Remote Access

DBA's are often unavailable to dial in:

- Commuting
- Trade Shows
- Training
- Lunch
- Little League Games
- Traffic
  
- Illness
- Vacations
- Personal Life
- Meetings



## Today's Business Environment

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### 2. The Challenge of DBA Response Time

DBA quick response needs are increasing:

- User expectations
- Customer demands
- Competitive pressures
- Management requirements
- Service level agreements
- Mission-critical systems
- High availability needs



## Today's Business Environment

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3. DBA productivity

4. DBA retention



## Today's Business Environment

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### 5. The Challenge of DBA Replacement

DBAs are costly to replace:

- Average cost to hire one person in I.T.:  
\$25,000 to \$35,000
- Does not include:
  - Salary
  - Cost to bring candidates in
  - Lost unbilled hours of time spent in process.

–CEO of I.T. Recruitment Firm



## Today's Business Environment

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### 6. Database Availability

#### Unscheduled Downtime is Costly:

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Average Cost per Minute of Application Downtime at Peak Load

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Data Warehouse \$6300

SCM \$6600

eCommerce \$7800

ERP \$7900

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–Standish Group International Inc., 1999



## PocketDBA Demo

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PocketDBA Systems is the only provider of software enabling comprehensive management of Oracle databases, servers, and networks from a wireless device.



## PocketDBA Demo

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Endorsed by Rich Niemiec

“ PocketDBA Systems has broken new ground with a robust wireless product that can make organizations and DBAs more effective through increased system availability.”

— Richard J. Niemiec, CEO of TUSC,  
President of International Oracle Users Group





## PocketDBA Demo

Wireless Database Management Now!™



Control your Oracle®  
Databases from wireless  
devices ®



# PocketSA Demo

## Wireless Database Management Now!™



Control your servers  
from wireless Palm  
OS devices





## Wireless Architecture

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### Compatibility:

Oracle 8.0.x, 8.1.x, 8i, [9i], 7.3.x\*

### OS:

Palm OS, [WinCE] ; Solaris, LINUX, Win NT/2000

### Supported Devices:

Palm V, Vx, VII, VIIx

Handspring Visor Platinum & Prism

Kyocera QCP 6035 Smartphone

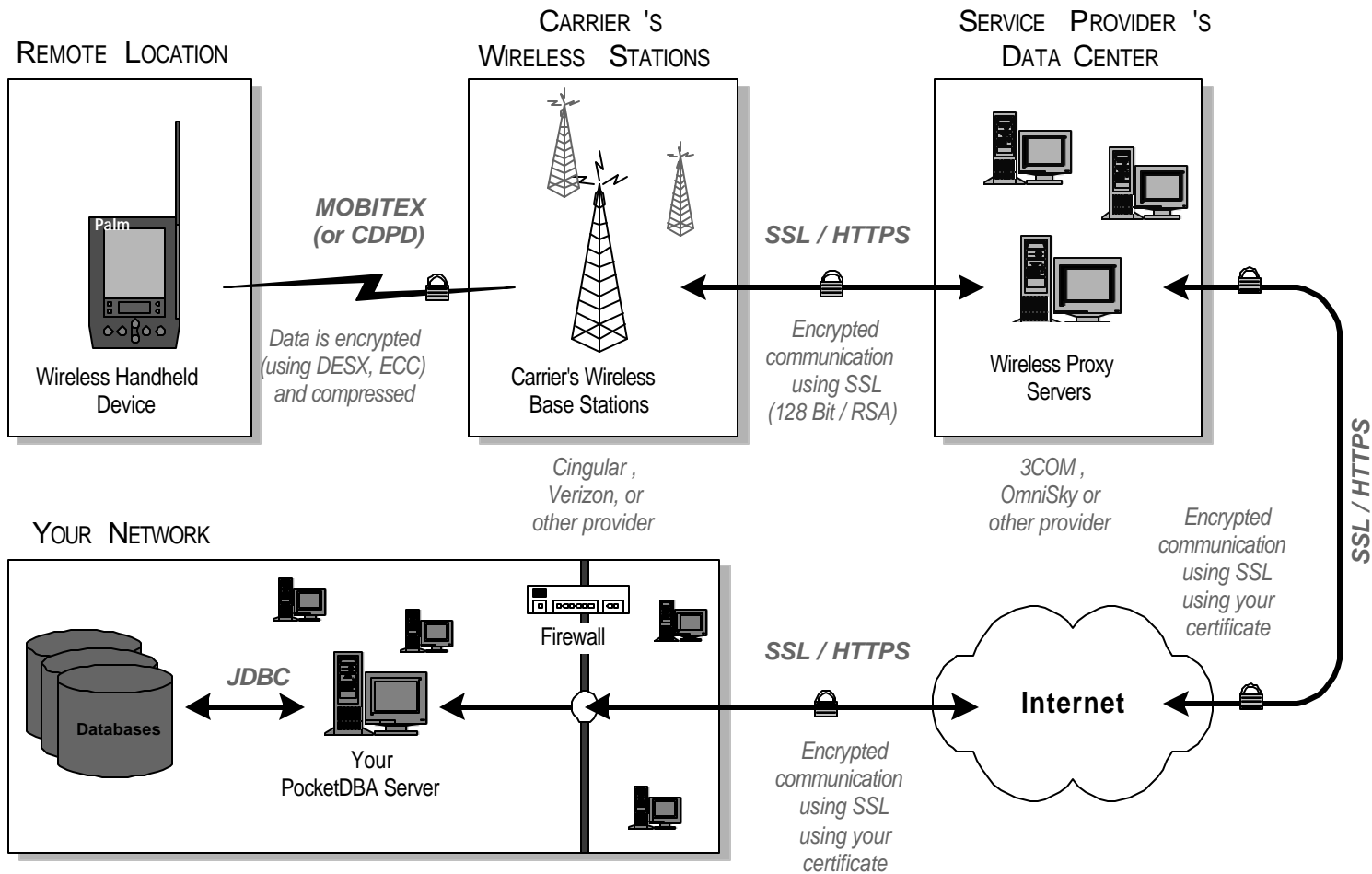
[ Compaq iPaq, HP Jiordana]

## Oracle Wireless Technology Options: IAS Components

- Apache JServ
- Oracle HTTP Server
- SQLJ (use SQL directly in Java applications)
- mod\_plsql / mod\_perl / mod\_ssl / mod\_jserv
- OracleJSP (JavaServer pages)
- Oracle PL/SQL Server Pages
- Oracle 8/9i JVM (Java Virtual Machine)
- Oracle 8/9i PL/SQL
- Oracle XML Developer's Kit
- Oracle LDAP Developer's Kit
- Oracle Forms Services (Enterprise Edition Only)
- Oracle Reports Services (Enterprise Edition Only)
- Oracle 8/9i Cache (Enterprise Edition Only)



# Wireless Architecture





## Wireless Architecture—Security

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Incorporates or Supports:

- Automatic session timeout
- No proprietary data or passwords reside on PDA
- Elliptical curve encryption SSL  
(HTTPS 128-bit Secure Socket Layer)



## Wireless Architecture—Security

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### Incorporates or Supports:

- Mandatory password authentication
- Oracle roles to limit access to specific users or areas of database
- Read-only permission option
- Encryption maintained on proxy server; no data caching



## Wireless Benefits

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- Speed up remote access and emergency troubleshooting
- Increase productivity by enabling more proactive monitoring
- Decrease costs by decreasing unplanned downtime





## Wireless Benefits

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- Provide inexpensive 24x7 insurance against DBA unavailability
- Reduce staff turnover by improving job satisfaction
- Gain fuller control over mission-critical systems



## Wireless and database resources

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### Oracle Discussion Newsgroups:

- `comp.databases.oracle.server`
- `comp.databases.oracle.tools`
- `comp.databases.oracle.misc`

These can be accessed through a newsgroup program or “[www.deja.com](http://www.deja.com)”

- Ari’s free Oracle Tips web page at:  
[www.arikaplan.com](http://www.arikaplan.com)

Over 400 tips and answers to questions.



## Wireless and database resources

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- Other good sites with links:

[www.ioug.org](http://www.ioug.org)

[www.lazydba.com](http://www.lazydba.com)

[www.orafaq.org](http://www.orafaq.org)

[www.orafans.com](http://www.orafans.com)

[www.orasearch.com](http://www.orasearch.com)

[www.revealnet.com](http://www.revealnet.com)

[www.dbdomain.com](http://www.dbdomain.com)



## Wireless and database resources

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### Wireless News:

- [www.planetit.com](http://www.planetit.com)
- [www.mobileinsights.com](http://www.mobileinsights.com)
- [www.mobileinfo.com](http://www.mobileinfo.com)
- [www.pdabuzz.com](http://www.pdabuzz.com)
- <http://www.thestandard.com/subject/technology/>

### Handheld Discussion Newsgroups:

- [comp.sys.handhelds.palmpilot](mailto:comp.sys.handhelds.palmpilot)
- [comp.sys.palmtops](mailto:comp.sys.palmtops)
- [comp.handheld](mailto:comp.handheld)

## Questions and Answers

