



Do you want your Forms apps to
revive on tablets as well?

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Program Agenda

- 1 Introduction
- 2 Forms to Mobile Challenge
- 3 Solution for Going Mobile With Forms
- 4 Real Customer Example
- 5 Benefits for Customers



John Blanding/The Boston Globe via Getty Image

Oracle Forms - the original development tool for Oracle

File Edit Default TAR Help
TAR# 11409852.60 Technical Assistance Request <Open>
-----<Customer> --Coun OASIS Version 4.1.00 (OFACS) - [Entry Review Grab Bag Inbox]
Spt Code^ Level GL
Customer^
Behalf
Contact1^
Phone^
Fax
Contact2
Phone
Abstract^ PROFILE OPTION JGZ
<Main> - (Re-Query)
Local Q^ GOLDGL
Global Q GQFINAP

Esc Lvl
Esc To
Crea
Upda
Escala
Search
Mail
Exit
ITS402 V1.4.0.1 User

Character Mode
SQL*Forms

Client Server

File Edit View Add Action District National Reference Products Admin User Opts Window Help
Help Home Personal Avail Wk GB Approve Log Sort Proceed NextStep Refresh
Entries To Be Reviewed (Grab Bag)
Entry / Doc / Line / (Suffix) Work Type Date Description
+ BYC-795783-2/011/052 QAV 05-20-2002 Priority Review
+ BYC-1127783-2/001/002 QAV 05-20-2002 Priority Review
+ WBK-442387-2/003/006 QAV 05-20-2002 Priority Review
+ BYC-8276423-8/004/090 QAV 05-20-2002 Priority Review
+ WBK-2948539-5/044/038 QAV 05-20-2002 Exam Recom
+ WBK-9828238-2/009/023 QAV 05-23-2002 Exam Recom
+ BYC-2043079-7/005/002 QAV 05-23-2002 Exam Recom
+ BYC-03702994-9848/893/3 QAV 05-23-2002 Exam Recom
* paper entry
Route To
Employee Name
Banks, Scott
Williams, William
Miller, Jennifer
Smith, Joe
Lee, Daniel
Record: 1/7 <DSC> <DBG>
File Edit Sort By Query Settings Help Window
Orders and Items
Immediate
Auto Query
Stock Image On Help Exit
Order Id 100 Order Information
Date Ordered 31-AUG-1992 Customer Id 204 Customer Name Womansport
Sales Rep Id 11 Sales Rep Name Magee
Date Shipped 10-SEP-1992 Cash Credit Order Filled
Bunny Boot
Item Product Description Price Qty Shipped Item Total
1 10011 Bunny Boot 135 500 500 67,500.00
2 10013 Pro Ski Boot 380 400 400 152,000.00
3 10021 Bunny Ski Pole 14 500 500 7,000.00
4 10023 Pro Ski Pole 36 400 400 14,400.00
Order Total 601,100.00

Web based - Java front-end





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FUSION MIDDLEWARE

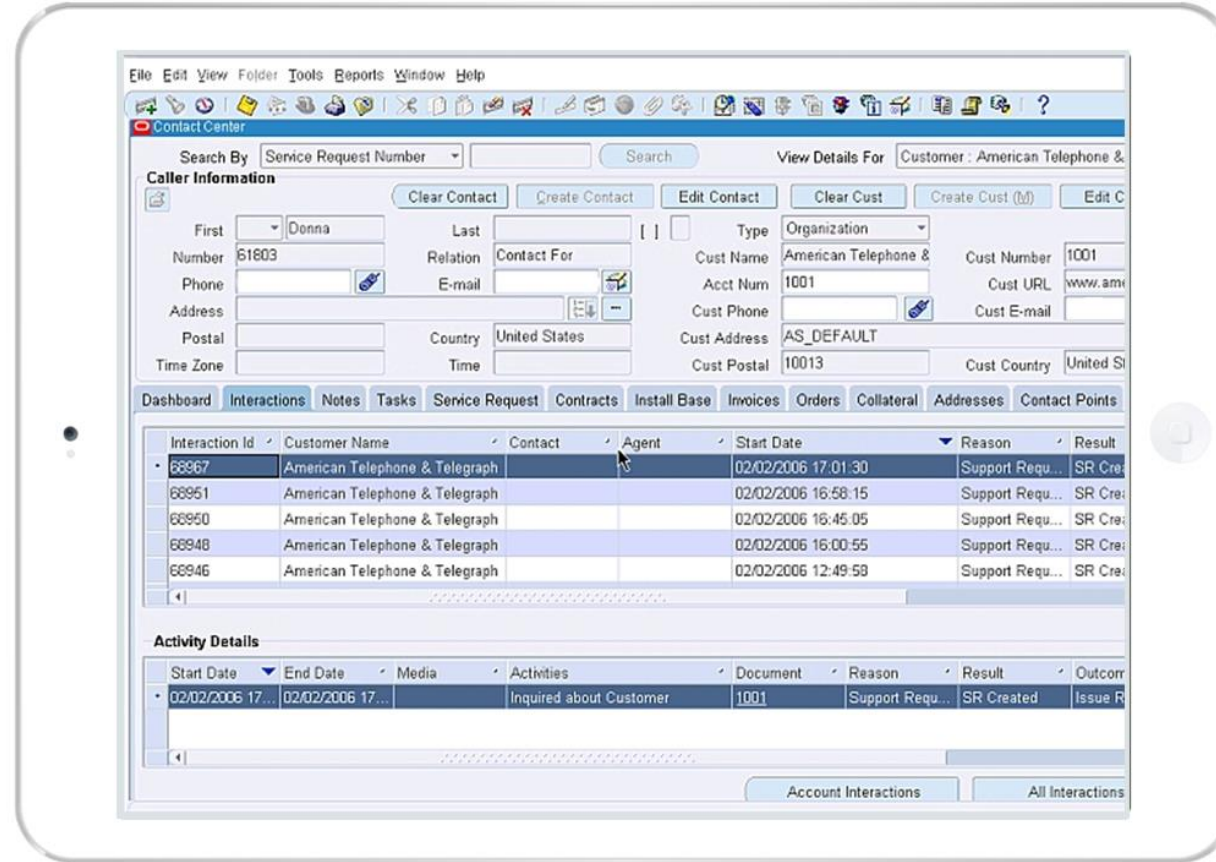
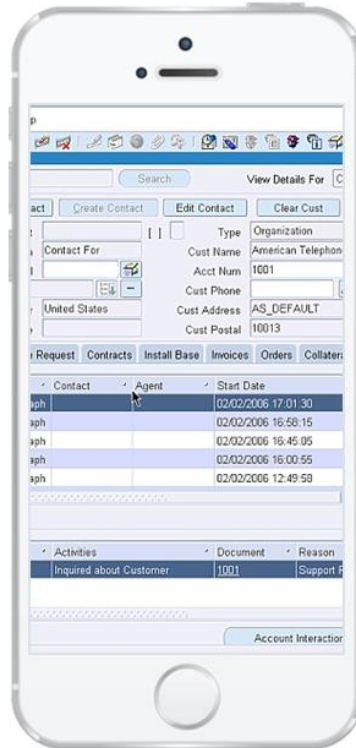
12^c

FORMS

- Over 50 new Forms features and enhancements compared to previous version
- Support for browser-less deployment
- Support for newer platforms
- Improved security
- Improved performance
- Premier Support into 2020

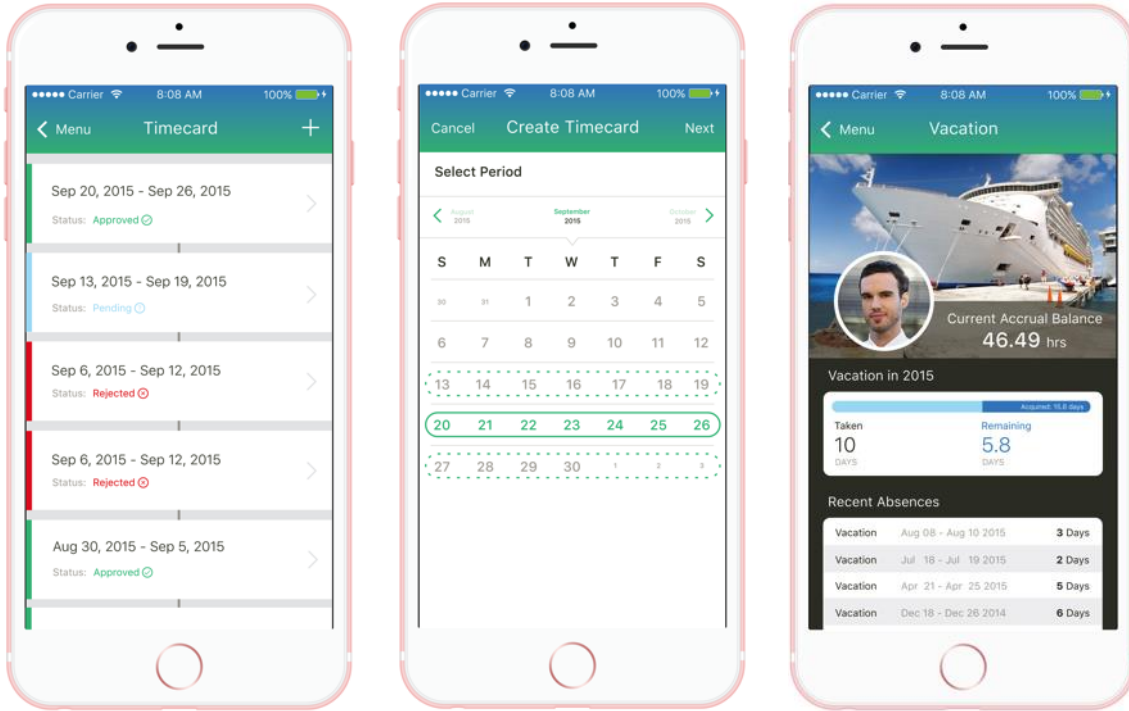
The Art of the Possible?

Your typical Oracle Forms application is not designed for mobile...

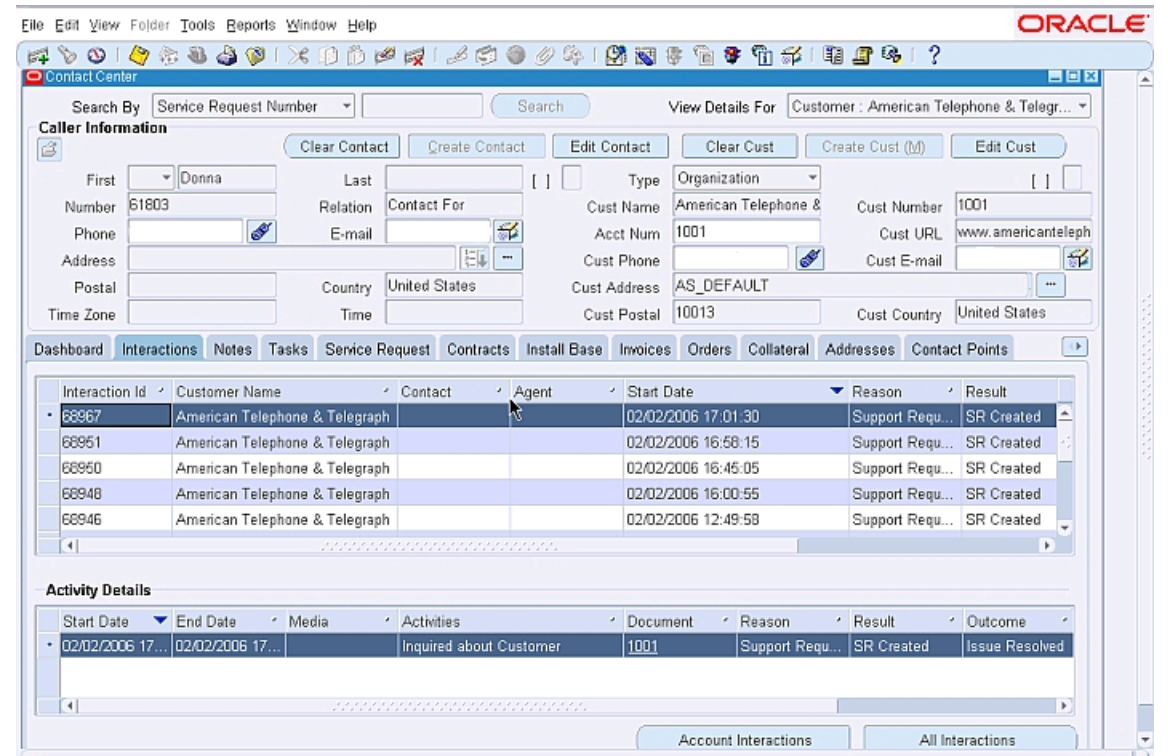


The Art of the Possible?

But the business logic is still relevant



Modern Mobile 1st Apps



Oracle Forms Applications

Your Challenge



Modern Mobile 1st Apps

- Amazing User eXperience
- Mobile-specific feature
- Multiple device platforms
- Offline working
- Analytics
- Security

Legacy Forms Application

- Business logic reuse
- Integration
- Forgotten skills
- Migration costs
- Re-testing
- Reduce risk

How do I build modern, Mobile 1st apps on top of legacy desktop Forms applications ?



“What if I told you you could mobilize any core business processes currently running in Forms, but you wouldn’t change a single line of Forms code.”

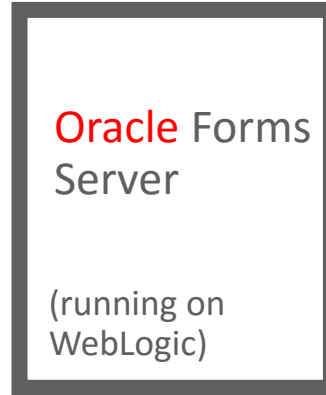
Grant Ronald, Director of Product Management, Oracle

Simplified Solution Architecture

How Oracle Forms works today



Oracle
Database



Data to/from UI



Oracle Forms UI

Simplified Solution Architecture

How to mobilize Oracle Forms



Oracle
Database



Oracle Forms
Server

(running on
WebLogic)



Data to/from UI

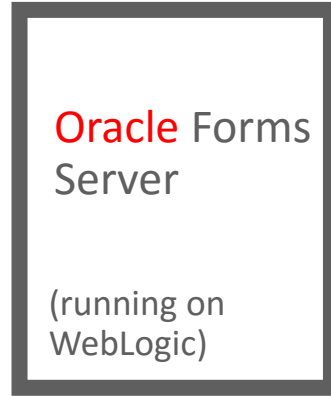


Simplified Solution Architecture

How to mobilize Oracle Forms



Oracle Database



Oracle Forms UI

AURAPLAYER
BE AGILE, GET CONNECTED, GO MOBILE



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**MOBILE
CLOUD SERVICE**



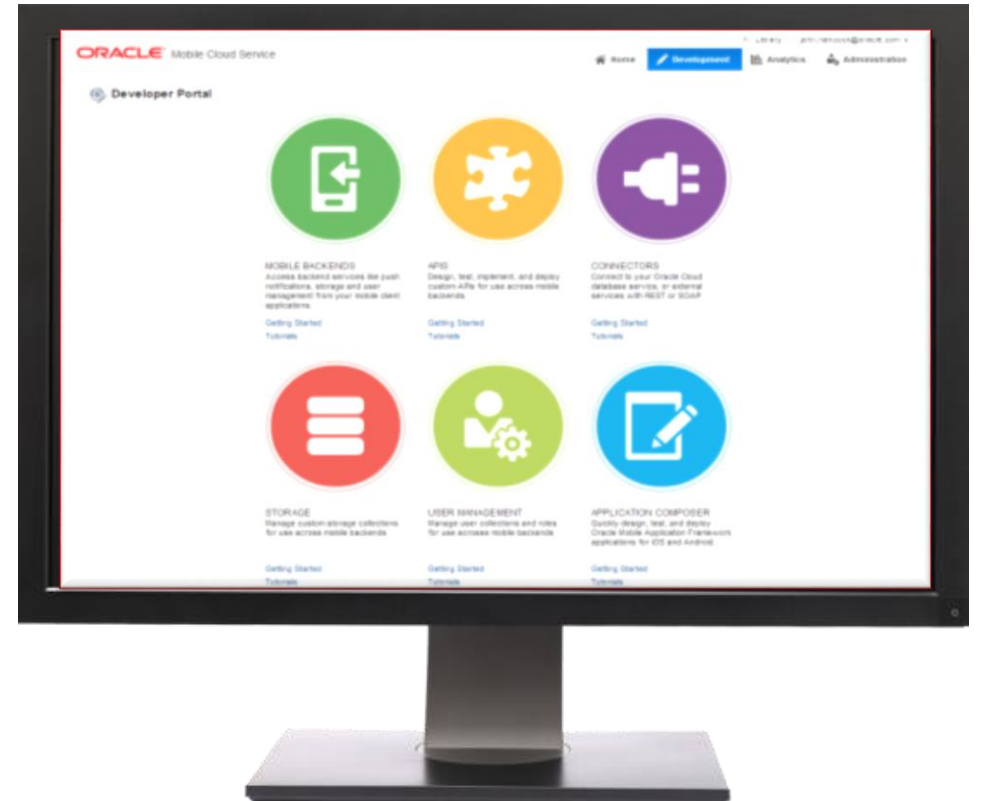
Custom mobile app



What is Mobile Cloud Service

Simplify building, integrating and analyzing a portfolio of mobile applications

- **API Catalog** for Mobile Apps Developer
- **Connectors** to backend services & enterprise apps
- **Storage Services** for files/content consumed by Mobile Apps
- **User and Role** Management
- **Push Notification, Data Sync, and App Lifecycle** Management Services
- **Mobile Analytics**

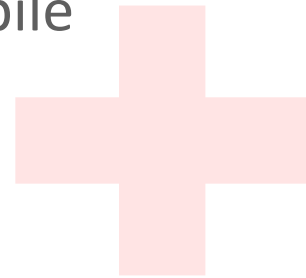


The Solution for going Mobile with Oracle Forms

Expose existing Forms fields and actions as Web Services without writing one line of code

“Record” the Forms use case for mobile

AURAPLAYER
BE AGILE, GET CONNECTED, GO MOBILE



Build mobile specific APIs

Enterprise grade Mobile Back-end in the Cloud

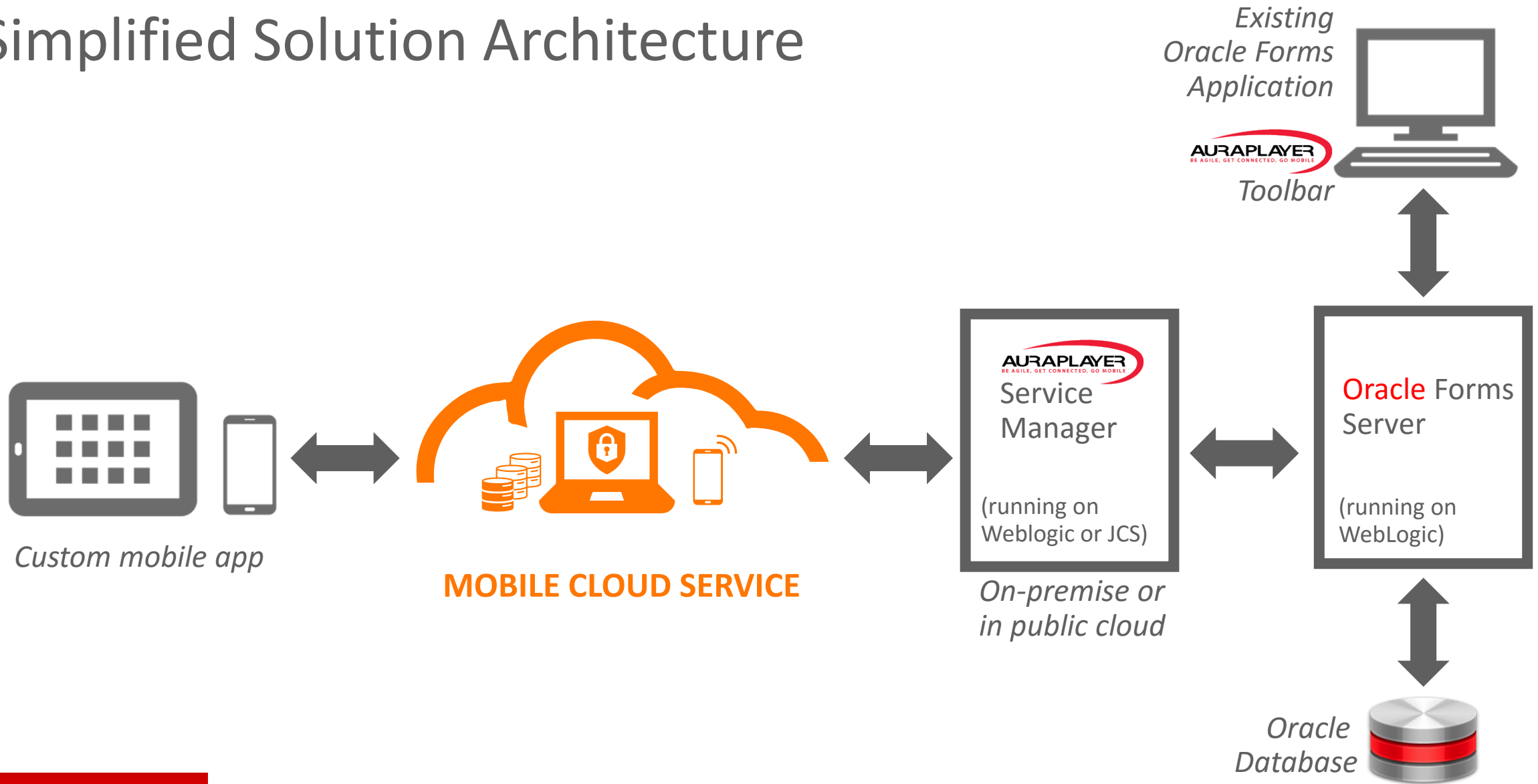
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MOBILE CLOUD SERVICE

No redevelopment or migration of the Oracle Forms System

Built-in Mobile Services for notifications, user management, offline data, location services

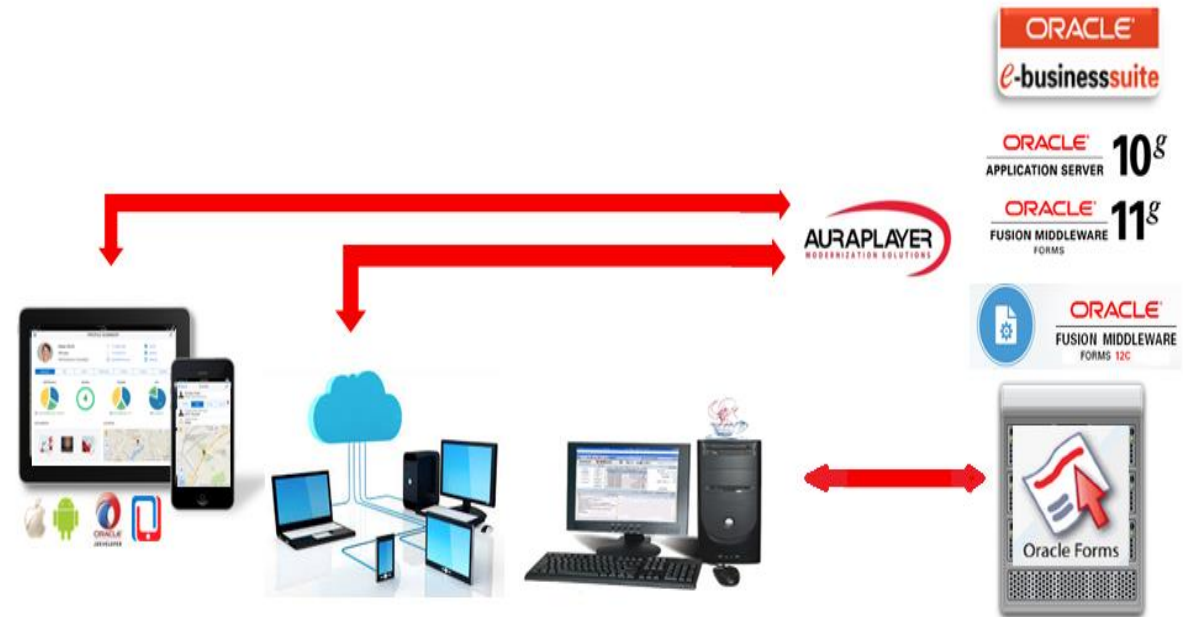
Mobile analytics and insight

Simplified Solution Architecture



AuraPlayer

- AuraPlayer Toolbar
 - Wizard based Service generator from Oracle Forms business process
 - Gathers input / output parameters
- AuraPlayer Service Manager
 - User Friendly Management tool to edit and create the processes enabled as web services
- AuraPlayer Server
 - Enables Forms business process as a web service automatically
 - Silently runs Oracle Forms on Weblogic server without Java Applet front-end



Result: Non-invasive, supported way to rapidly expose critical business logic buried in legacy Oracle Forms applications

- Oracle Forms Versions: 10g, 10gR2, 11g, 11gR2, 12c
- Weblogic SE, EE or Suite
- OS: AuraPlayer server can run on any Oracle Forms certified platform

3 Steps to Mobile Success with Oracle Forms



- 1. Business process and User eXperience**
 - Identify the the business process
 - Define the end-user experience
 - Create a Storyboard



- 2. Mobile APIs & Services**
 - Set up platform to manage services
 - Record your Oracle Forms process and expose REST services
 - Create your mobile APIs



- 3. Mobile App**
 - Develop mobile app against your mobile APIs, in the tools of your choice
 - Be agile, release early, release often
 - Measure success with Mobile Analytics

Oracle Mobile Cloud Platform Capabilities

MOBILE APPLICATION FRAMEWORK (MAF)



Cross Platform Development
Write Once - Run on iOS /
Android

JAVASCRIPT EXTENSION TOOLKIT (JET)

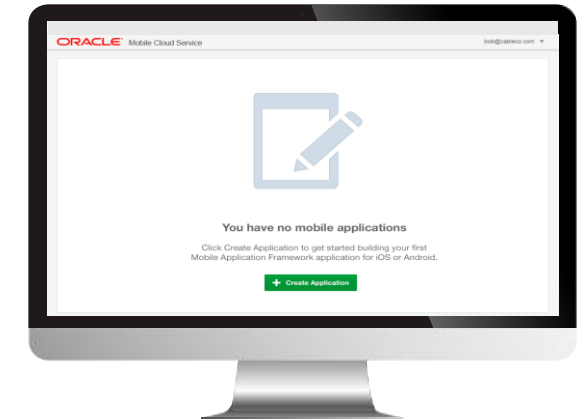


MOBILE CLOUD SERVICE



Enterprise Grade MBaaS
Mobile API Catalog, Security,
Services, Analytics

MOBILE APPLICATION ACCELERATOR



No Code Mobile
Application Composer

Mobilizing Forms - Use cases

- **Retail** - Scanner device apps to enter items into orders on the warehouse floor.
- **Inventory** - EBS Physical inventory and cycle counts on tablets from warehouse floor
- **Field Service** – Officers and workers in the field can forget paper forms and file inspections and reports directly on tablets – for electric, gas, police, fire dept, inspectors
- **Sales App** - Mobile catalogue of inventory items on a tablet to ease the order process
- **Order Entry** - Warehouse management systems to insert orders and products
- **Time Reporting** – Do hours entry on location on any mobile device
- **Insurance** - Agents use an app to provide quotes for life insurance policies and have end-customers sign on the spot. A customer app can be used to report accidents on-location along with photos.
- **Work Order Management** - Close work orders, get a list of service request to complete, and enter follow-up actions.
- **Approvals** - A Managerial app to review and approve purchase requisitions or other requests.

Customer Story – New York Municipal Transport Authority



Status and Challenges

- Status

- Modernization of Collision accident reporting system (CARS)
- Accidents on bridges and tunnel are recorded on paper at scene then typed into desktop system

- Challenges

- CARS system Only available on the desktop
- Developed in Oracle Forms 10g - want to maintain one source of business logic on mobile and desktop
- No network connectivity in some locations
- Want to capture images of collision and documents

Business Need

- Modernize IT Infrastructure with Mobile technology. Mobile – relevant to all departments
- Leverage current investment in legacy backend systems.
- Streamline collision accident reporting process for safety, traffic and revenue implications
- Improve timeliness and efficiency of the legal process related to citations
- Provide self service apps to our employees with modern relevant experiences (e.g. time card entry, expenses etc.)

Mobilizing the Oracle Forms CARS system using Oracle MCS and AuraPlayer



Report Collision

Before:

COLLISIONS

RFK Bridge Bronx

Collision No. TB1508034 Completed By TMATIAS NYPD No. Precinct 25

Main Info

TBTA Property Damaged TBTA Vehicle

Tbta Vehicle No. []

Collision Date & Time 08/16/2015 14:35:00

Weather Clear

Roadway Conditions Dry

Roadway Character Straight and Level

Lighting Conditions Daylight

Type and Factors

Type Of Collision Side-Swipe

Main Factor Un-Safe Lane Change

Contributing Factor N/A

Pre Collision Action Changing Lanes

Driver and Vehicle Information

Pravda, Evan, Matthew Suburban

Dhondup, Dawa Pick-up

Location and Directions

Off Property Construction zone Yes No

Location TBX Plaza - On-Bound North Side of Plaza

Roadway No. []

Plaza Lane 19

GEO Location Tbblane19

Marker Type LP

Marker No 17 Two Way Operations

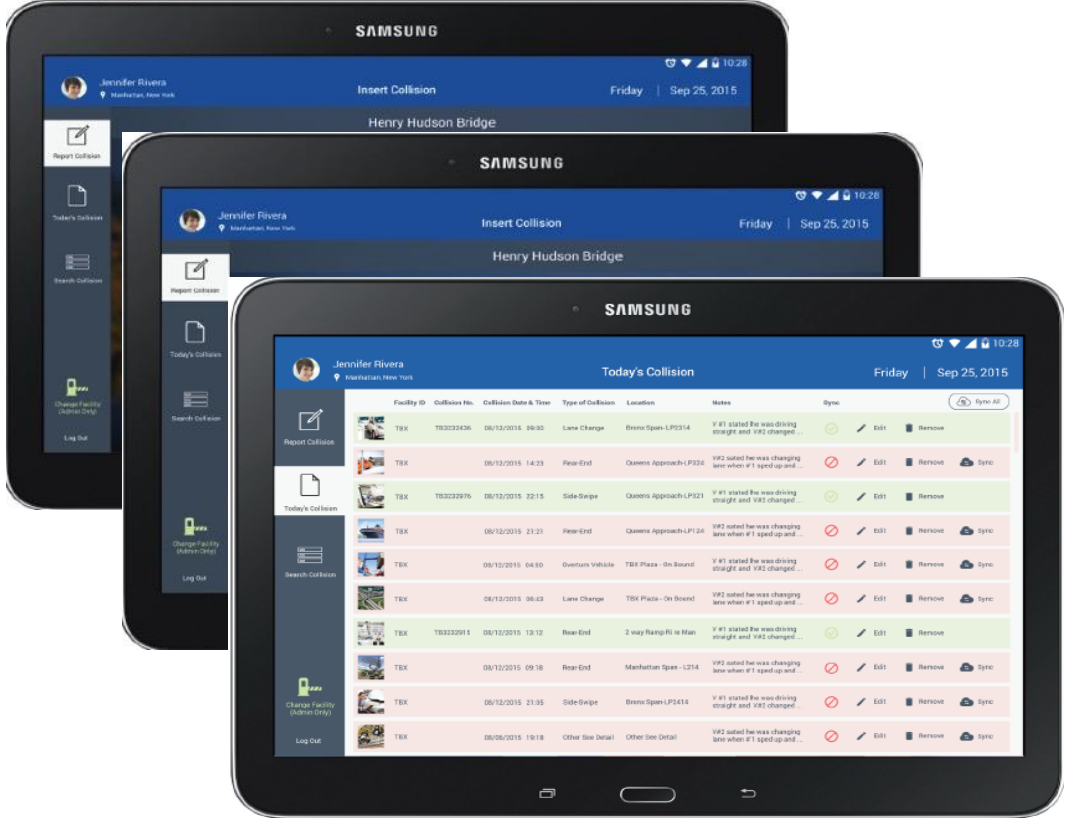
Notes

V#1 stated he was driving straight and V#2 changed lanes and sideswiped his veh.

V#2 stated he was changing lanes when v#1 sped up and made contact with the trailer portion of his veh.

Search

After:



Offline Reporting



Benefits of the Solution

- Safer for officers
 - Less time at the scene of the accident
- More timely data
 - Data no longer needs to be typed into the desktop system after the fact
- Enriched data gathering
 - Data will now include collision and document photos
 - Future version of system to include Veripic, scanning license & registration
- Improved data accuracy
 - Data entered on location
- Mobilize Legacy system with Minimal Time & Risk
- Maintain One Code Base – Multiple UIs / Devices on existing system

Customer Benefits



Get Agile, Mobilize in hours

Future proof existing investments, minimizing risk



Maximize ROI

No re-development or Forms migration required



Maintain one code base

Multiple UIs and device on existing system



Cloud Ready

Plug Forms into the Cloud today





“Technology is no longer a barrier to succeeding with mobile, but a lack of vision is.”

Grant Ronald, Director of Product Management, Oracle

Integrated Cloud

Applications & Platform Services