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Mobilizing Oracle Forms

The Art of the Possible

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Program Agenda

- 1 The Enterprise drive to mobility
- 2 Understanding Oracle Forms
- 3 The art of the possible
- 4 How to mobilize your Forms investment
- 5 Customer case study

A man in a light blue shirt and tie is looking at a tablet in a warehouse setting. The background is blurred, showing other workers and cardboard boxes. The text "The Enterprise Drive to Mobility" is overlaid in white.

The Enterprise Drive to Mobility

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The Enterprise Drive to Mobility

As consumer engagement swells, so too does the demand on IT

150x Number of times consumers check their mobile devices a day



79% Smartphone owners use their mobile devices to buy products or services

300%

Faster growth for m-commerce than eCommerce

\$636B

Goldman Sach's m-commerce sales estimate for 2018

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The Enterprise Drive to Mobility

Your users perception of time management systems

“I walk into work and clock on as I go through the door”

- Textile Worker 1940s.



The Enterprise Drive to Mobility

Your users perception of time management systems

“I sit at my desk and use my desktop app to log my work hours”

- Generation X, 2000s.



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The Enterprise Drive to Mobile

Your users perception of time management systems

“Really? I do it on my phone
whenever and wherever I want!”

- Millennial, Today.



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The Enterprise Drive to Mobile

The challenge for Oracle Forms



Modern Mobile 1st Apps

- Amazing User eXperience
- Push Notifications
- 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 ?

A woman in a blue blazer is sitting at a desk, looking towards a man in a grey suit who is gesturing with his hands. A laptop is open on the desk in front of her. The background is a blurred office environment.

Understanding Oracle Forms

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The Oracle Forms Profile

What do nearly all Forms investments have in common

- Core business applications
- Enterprise-class
- Enterprise-scale
- Mature
- Risk averse
- Phased approach to change



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The Oracle Forms Wish List

What are the common requests in a Forms investment

- UX modernization
- Stability
- Low/no risk to change
 - Can't afford rip and replace
 - Limited skills who fully understand the Forms system
- Change MUST show a benefit
- Quick wins to show change can benefit business

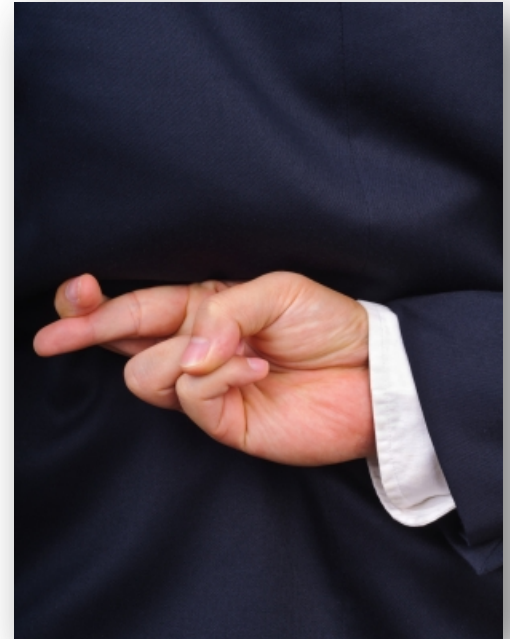


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The Art of the Possible

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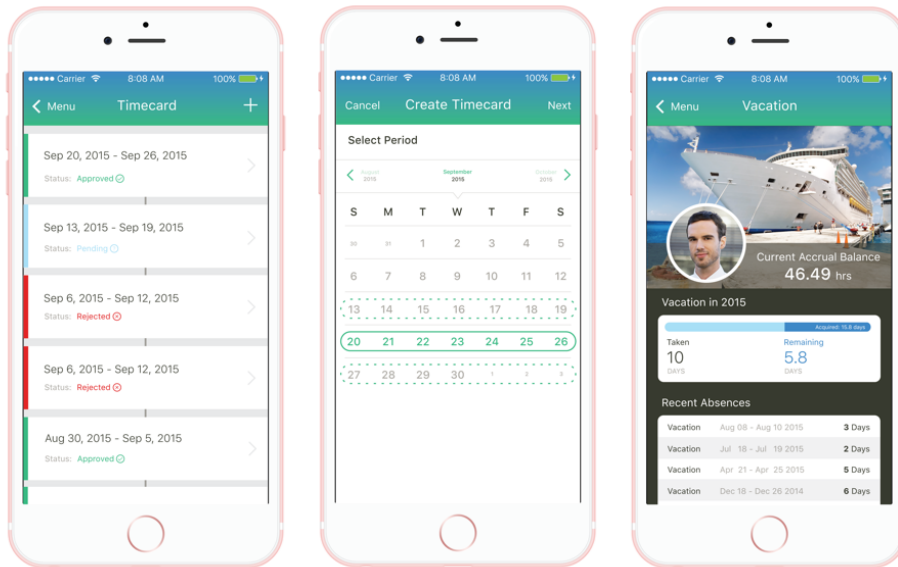


“What if I told you you could mobilize any core business processes currently running in Forms, but you wouldn’t change a single line of Forms code.”

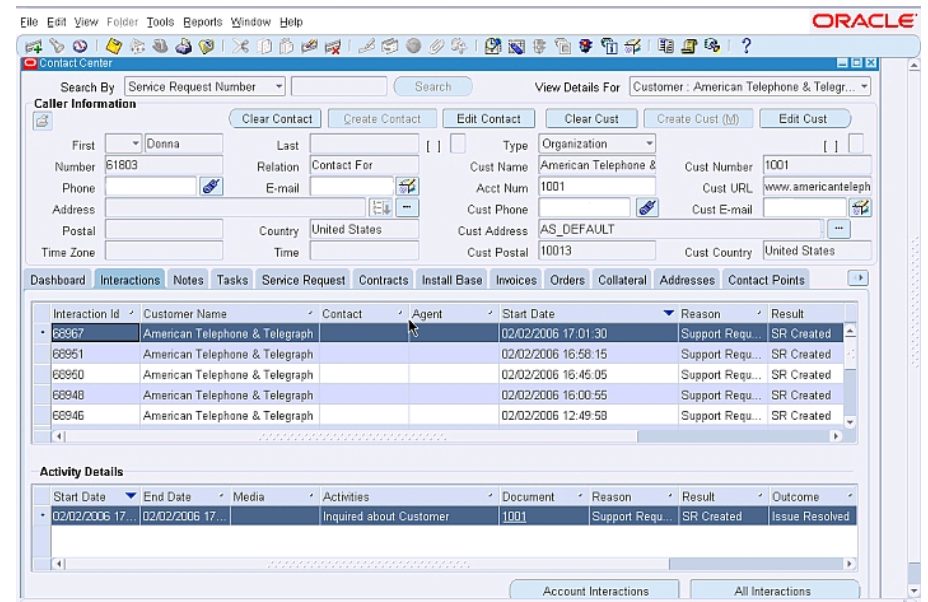
– Grant Ronald, Director of Product Management, Oracle.

The Art of the Possible?

What users want vs what they currently have



Modern Mobile 1st Apps



Oracle Forms Applications

A photograph showing several people's hands interacting with mobile devices on a wooden table. One person is pointing at a tablet, while others hold smartphones. The scene is brightly lit and focused on the devices.

How to Mobilize Your Forms Investment

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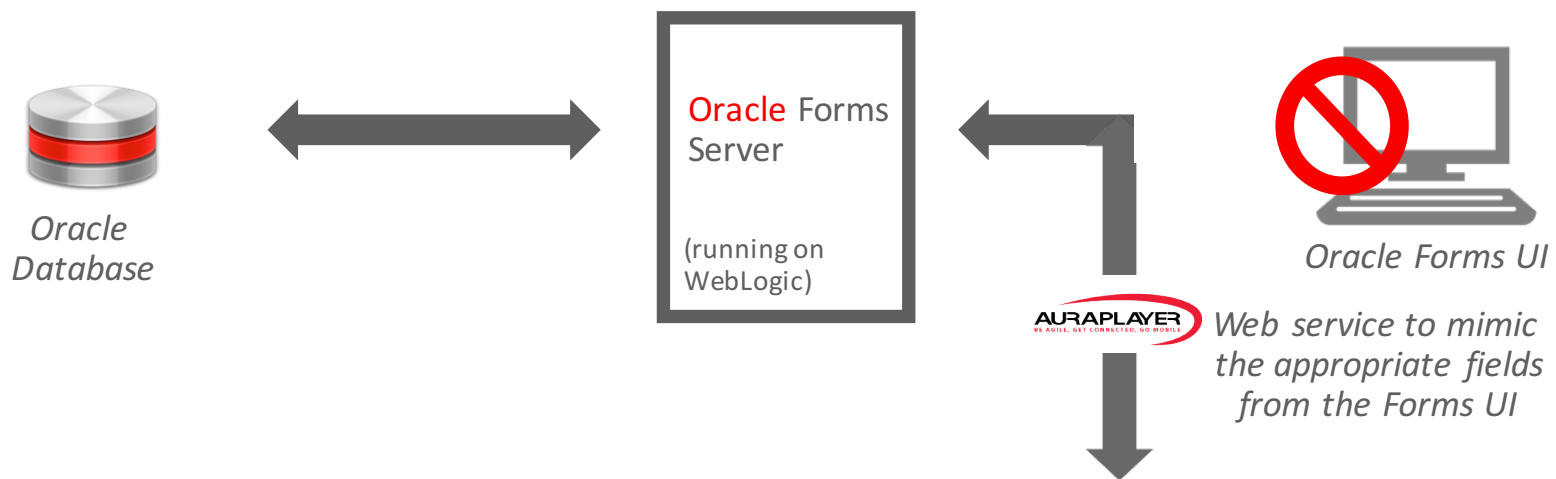
Simplified Solution Architecture

How Oracle Forms works today



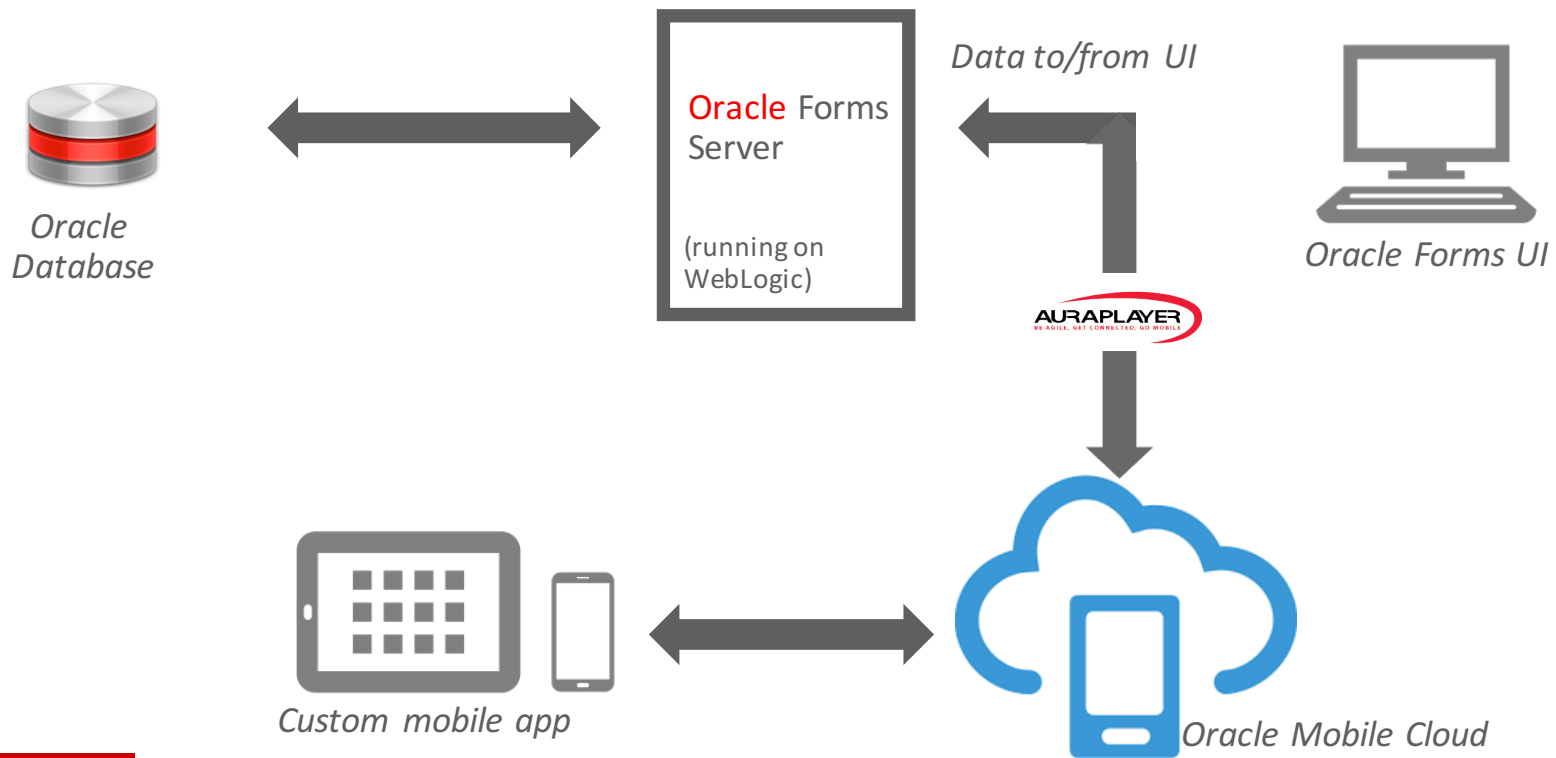
Simplified Solution Architecture

How to mobilize Oracle Forms



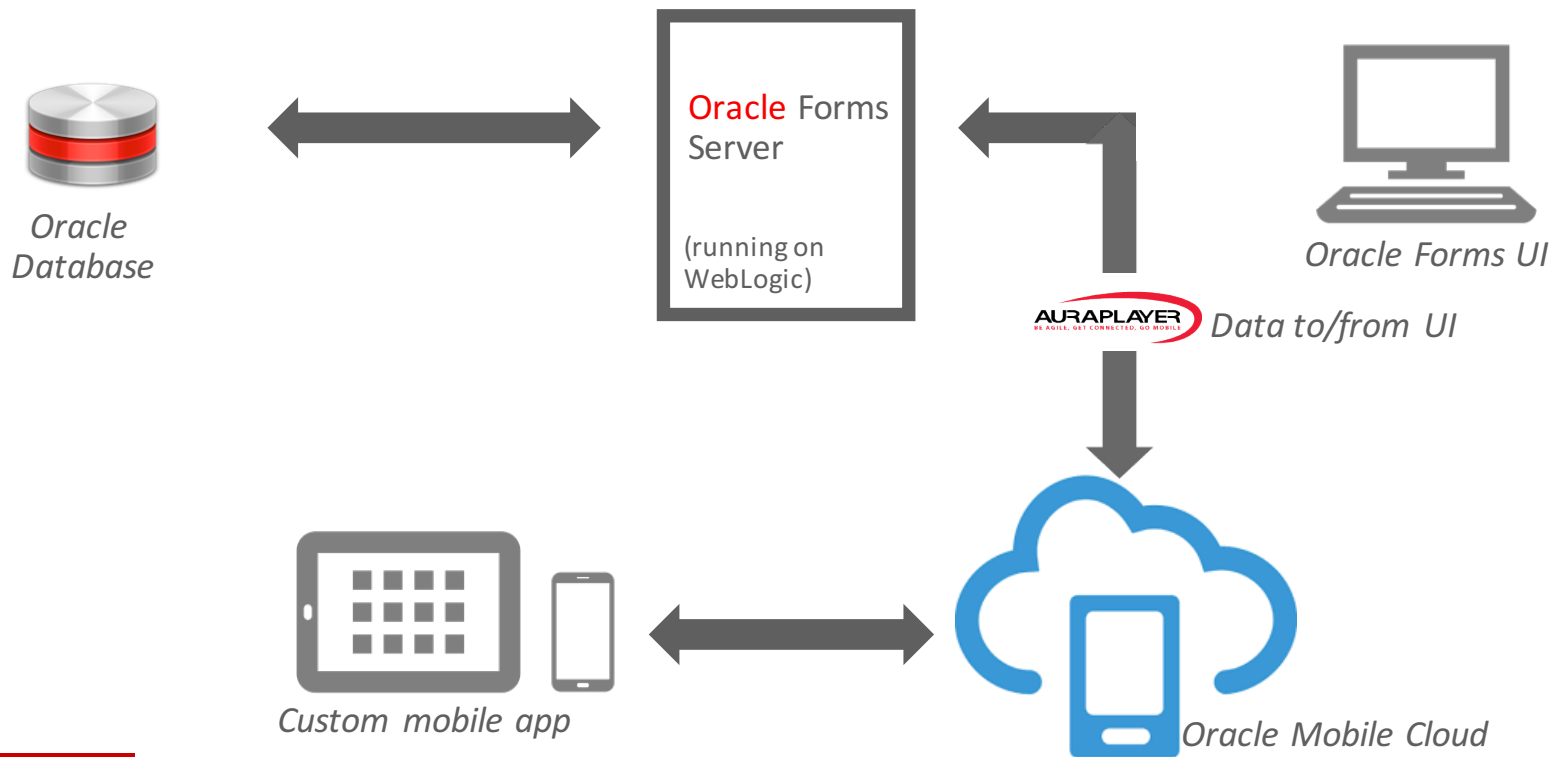
Simplified Solution Architecture

How to mobilize Oracle Forms



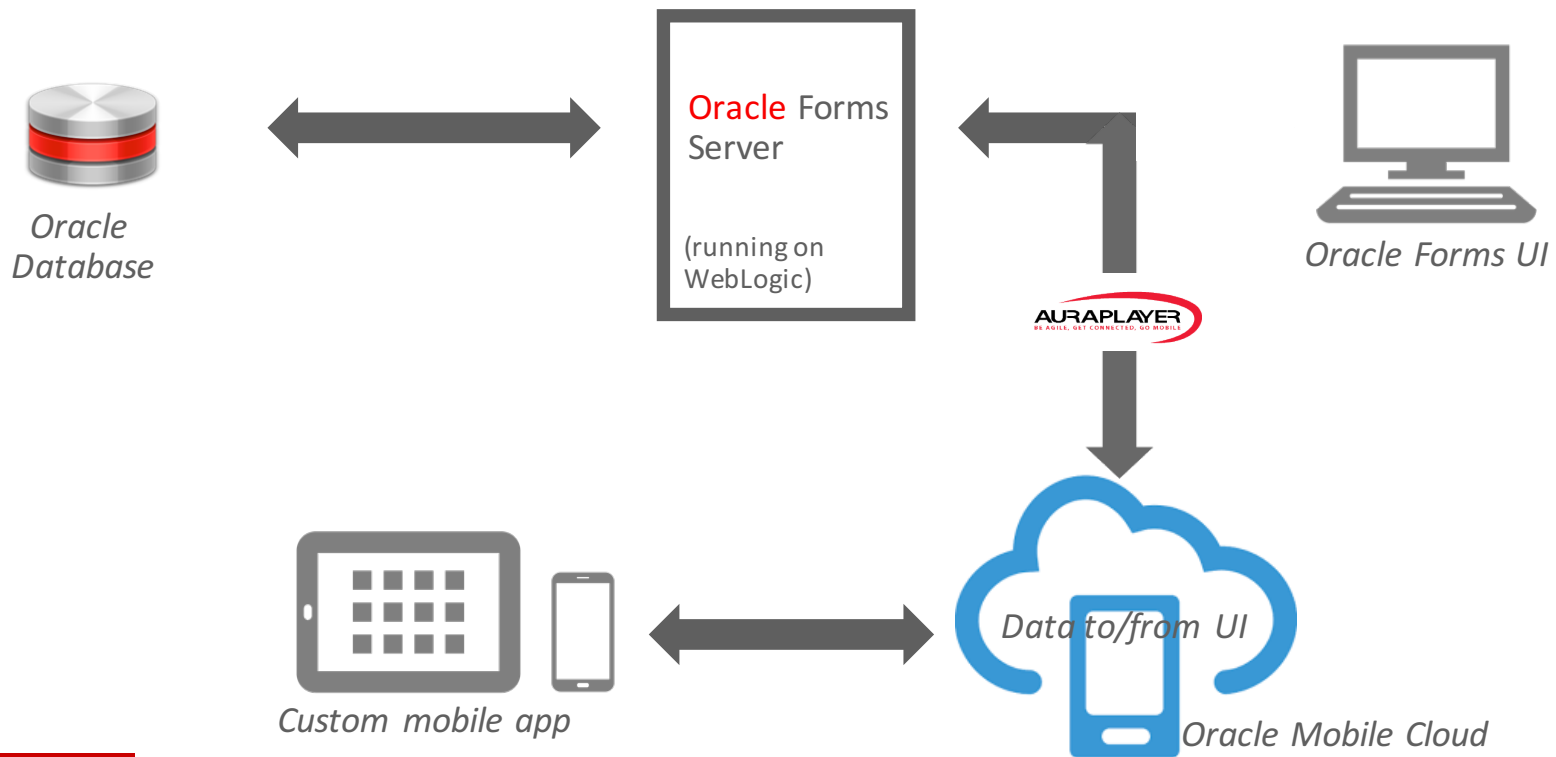
Simplified Solution Architecture

How to mobilize Oracle Forms



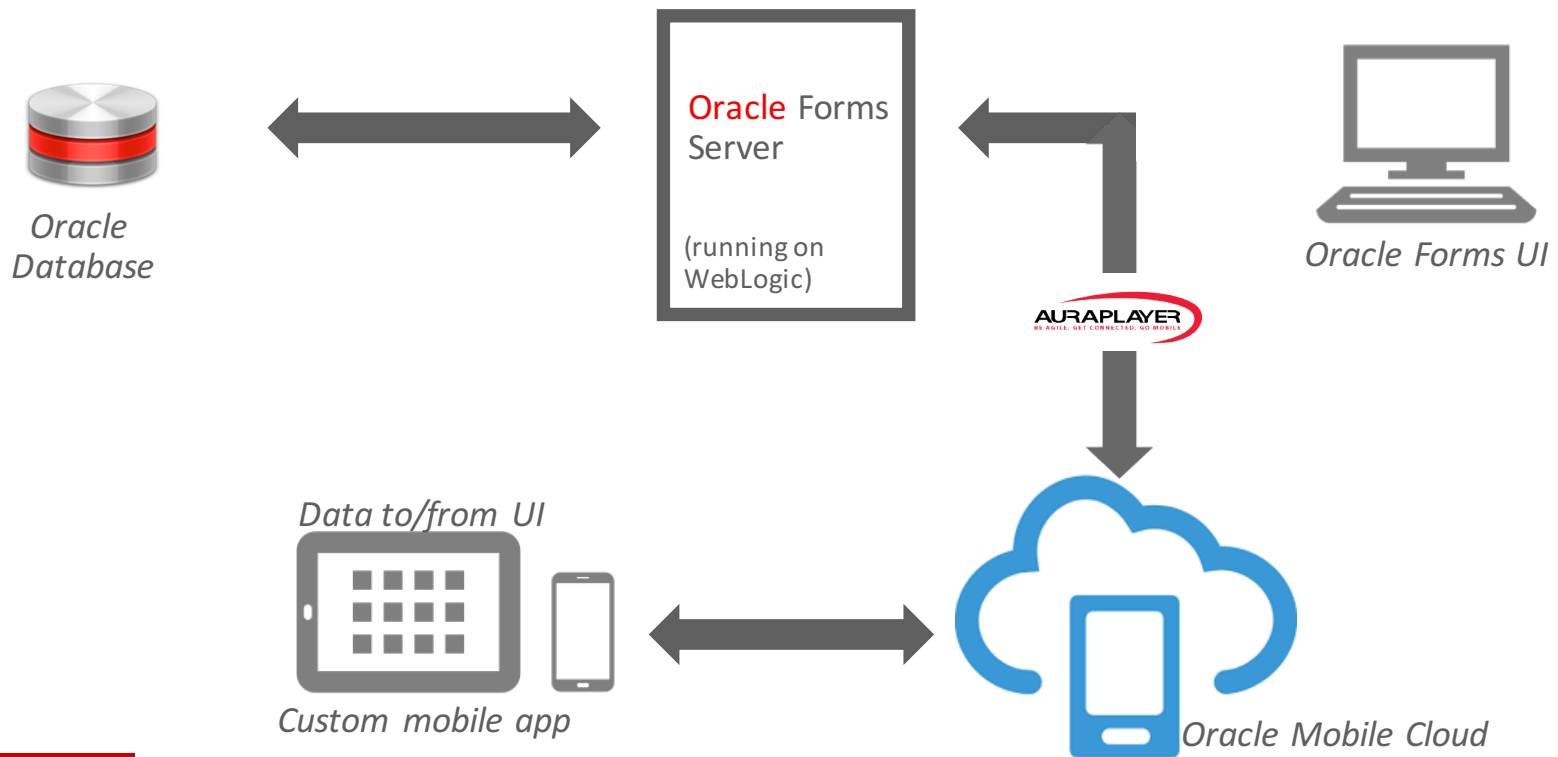
Simplified Solution Architecture

How to mobilize Oracle Forms



Simplified Solution Architecture

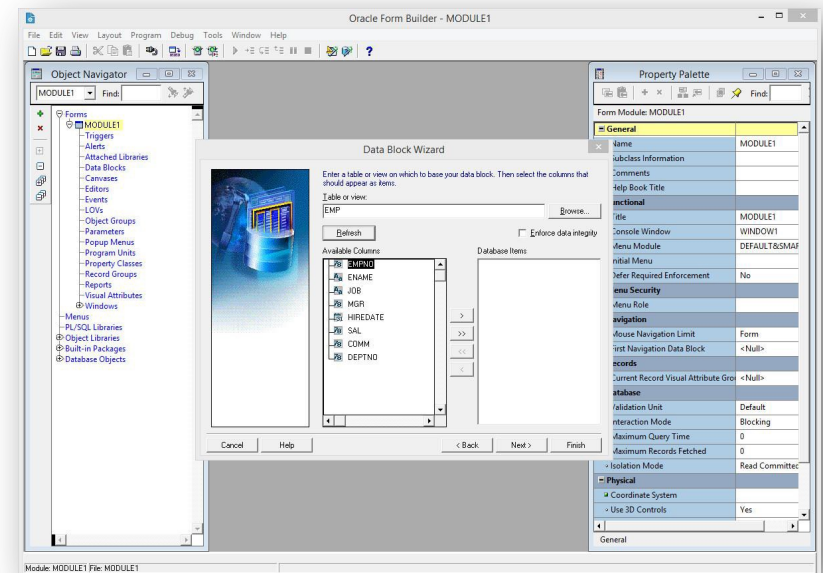
How to mobilize Oracle Forms



Benefits Of This Approach?

What does this approach give me over other approaches

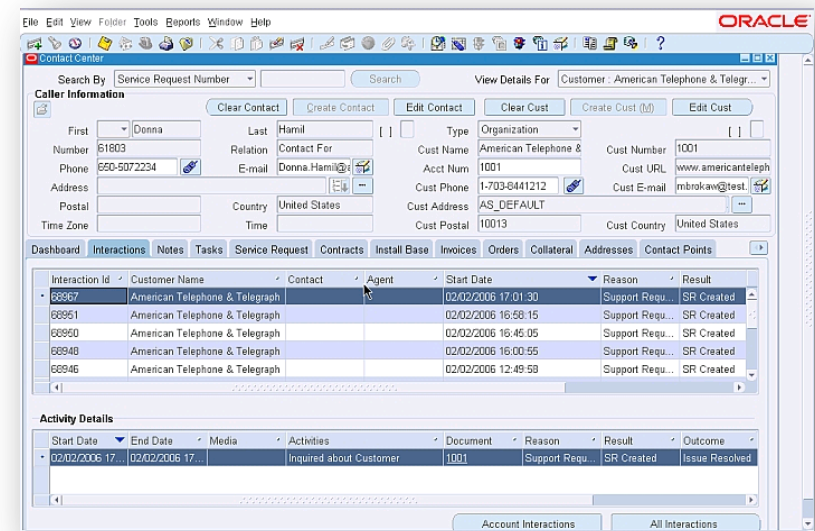
- Risk Free Route to Mobile - Forms continues to run “as is”
 - You don’t touch a single line of Forms code
 - No risk to existing applications, functionality or code
 - Proof of concept can be developed as a risk free sprint
 - Changes to business logic in Forms are automatically used
 - Mobile apps exploit the power of your Forms back end processes/validation/logic



Benefits Of This Approach?

What does this approach give me over other approaches

- You mobilize business processes, not Forms screens
 - Design for Mobile UX, not for legacy Forms screens
 - Only expose what make sense for the mobile use case



Benefits Of This Approach?

What does this approach give me over other approaches

- Exploit the opportunities of mobile vs. Forms to improve the UX
 - Use GeoLocation information
 - To narrow searches based on location
 - Capture geo-specific information from web services (e.g. Weather Report, local holidays, currency)
 - Use voice/handwriting recognition instead of textual data input
 - Capture information via barcode/QR scanning or photographs



Benefits Of This Approach?

What does this approach give me over other approaches

- Exploit Oracle Mobile Cloud Service
 - Work off line and sync data when back on network
 - Use analytics to get mobile insights
 - Store mobile specific information in MCS rather than changing backend storage

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**MOBILE
CLOUD SERVICE**

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Customer Case Study

NYC Metropolitan Transport Authority

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Customer Story – New York Municipal Transport Authority

- Modernization of Collision accident reporting system (CARS)
- Accidents recorded on paper at scene then typed into desktop system
- CARS system Only available on the desktop
- Maintain one source of business logic for mobile and desktop
- No network connectivity in some locations
- Capture images of collision and documents



New York MTA CARS System Mobilization



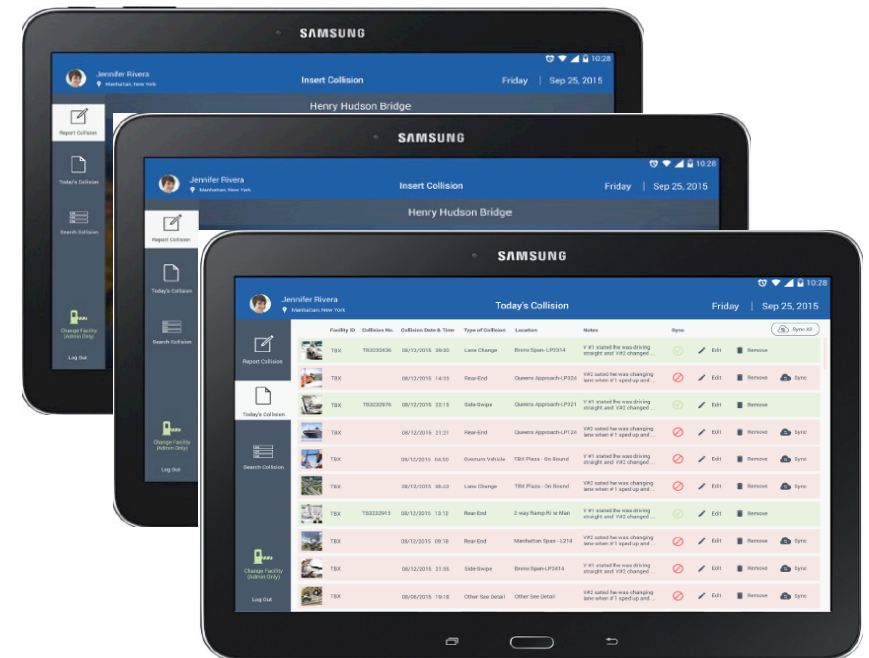
New York MTA CARS System Report Collision

Before:

The screenshot shows a desktop web application interface for reporting a collision. The title bar reads "COLLISIONS" and the page header includes "RFK Bridge Bronx" and "MTA Bridges and Tunnels". The main form is titled "Collisions" and contains the following fields and sections:

- Collision No.:** TB1508034
- Completed By:** TMATIAS
- NYPD No.:** [Empty]
- Precinct:** 25
- Main Info:** TBTA Property Damaged, TBTA Vehicle, Tbtv Vehicle No.
- Collision Date & Time:** 09/16/2015 14:35:00
- Weather:** Clear
- Roadway Conditions:** Dry
- Roadway Character:** Straight and Level
- Lighting Conditions:** Daylight
- Injuries:** No Of Injured, Board Of Inquiry
- Injury Rms:** No Of RMA, Summons Issued
- Fatalities:** No Of Fatalities, No. Of Summons
- 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 (Tbbiane19), Marker Type (LP), Marker No (17), Two Way Operations.
- 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), Ohondup, Dawa (Pick-up).
- 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.

After:



Offline Reporting

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New York MTA Solution

SAMSUNG



- Device Resident App
- Secure offline storage
- Samsung Device Integrations
 - Pen Integration
 - Voice Integration
 - Camera In

- REST API Shaping
- Offline Data Sync
- Push Notifications
- Image Storage
- Single Sign On
- Usage Analytics

- Forms to REST
- MCS Connector

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New York MTA: Business Impact

- Massively reduced processing time
 - Minutes compared to hours
 - Keep the traffic flowing
 - Safer for officers – less time on the bridge
 - Saving in operational costs due to less overtime
- Improved data gathering
 - Data now includes collision photos
 - More accurate information as data entered at location
 - Information available immediately rather than data-entered later
 - More accurate recording of summons

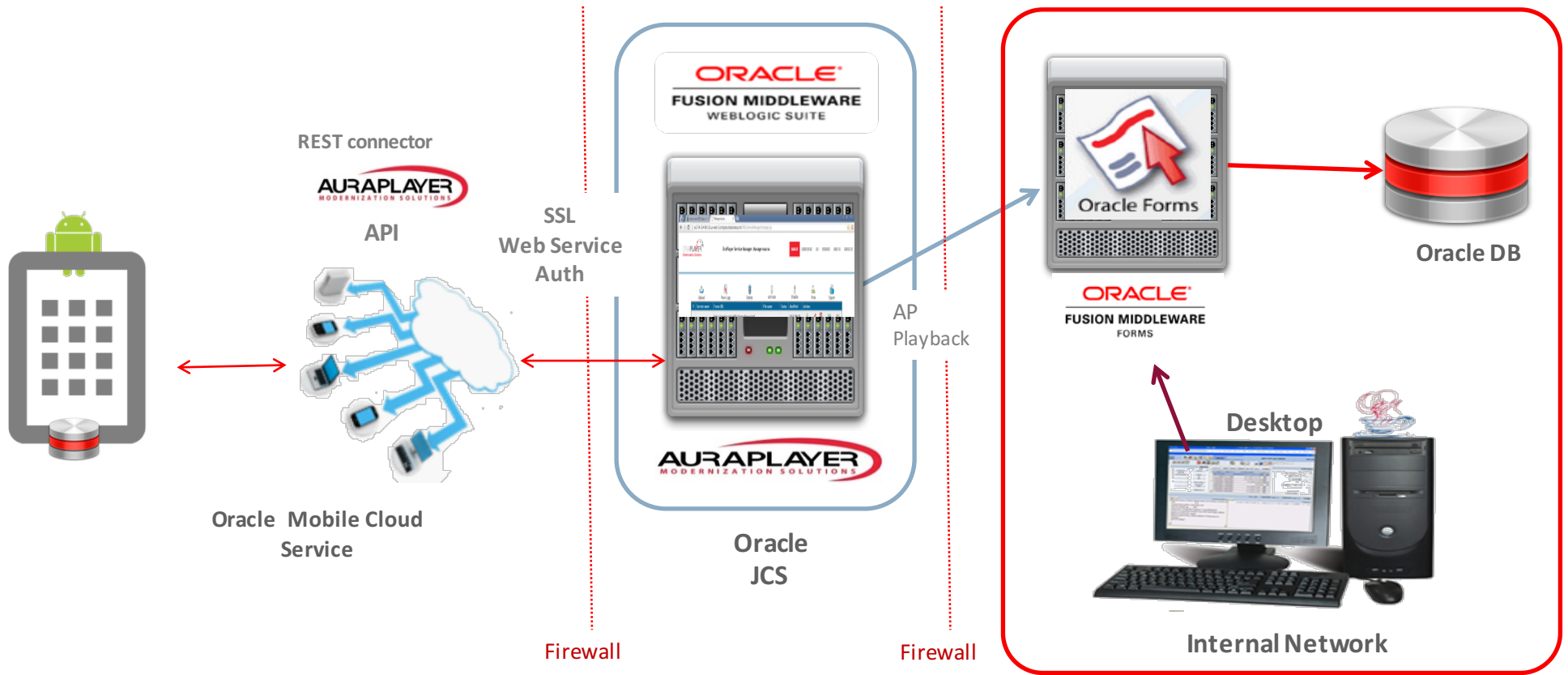


New York MTA: Business Impact

- Happier labor force
 - In freezing weather officers spend less time outside
 - Don't have to use pen and paper without gloves
 - Simpler data entry using voice recognition, cameras, spellchecker etc.
- Maintain single code base in Oracle Forms
 - Multiple UIs running in the same business back end
- Mobilization initiative undertaken with minimal risk



Full Cloud Architecture



Mobile is at the **HEART** of any Digital Transformation

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