

Mobile Application Development Using Oracle Mobile Cloud Service

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Oracle Cloud Platform

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Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.




A Changing World

Growth Of Mobile In The Enterprise

30–35% of large enterprises will leverage mobile application development platforms to develop and deploy mobile apps across their organizations in 2016.

By 2018, **100%** of the LOB apps in customer-facing roles and **75%** of LOB apps in internally facing roles will be built for mobile-first consumption.



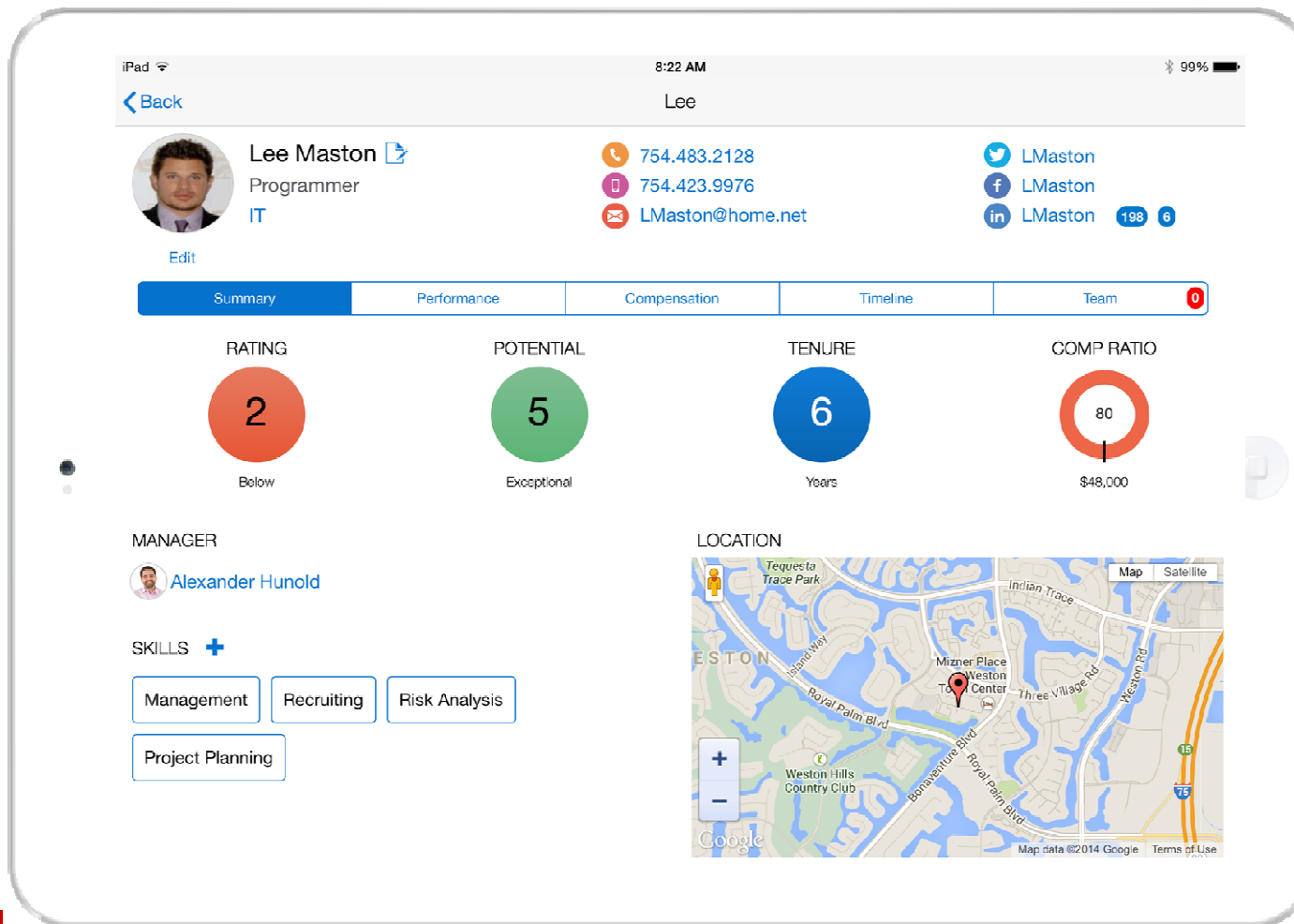
60+% of people report they are using their personal device for work

Source: Gartner Device: The facts and the future

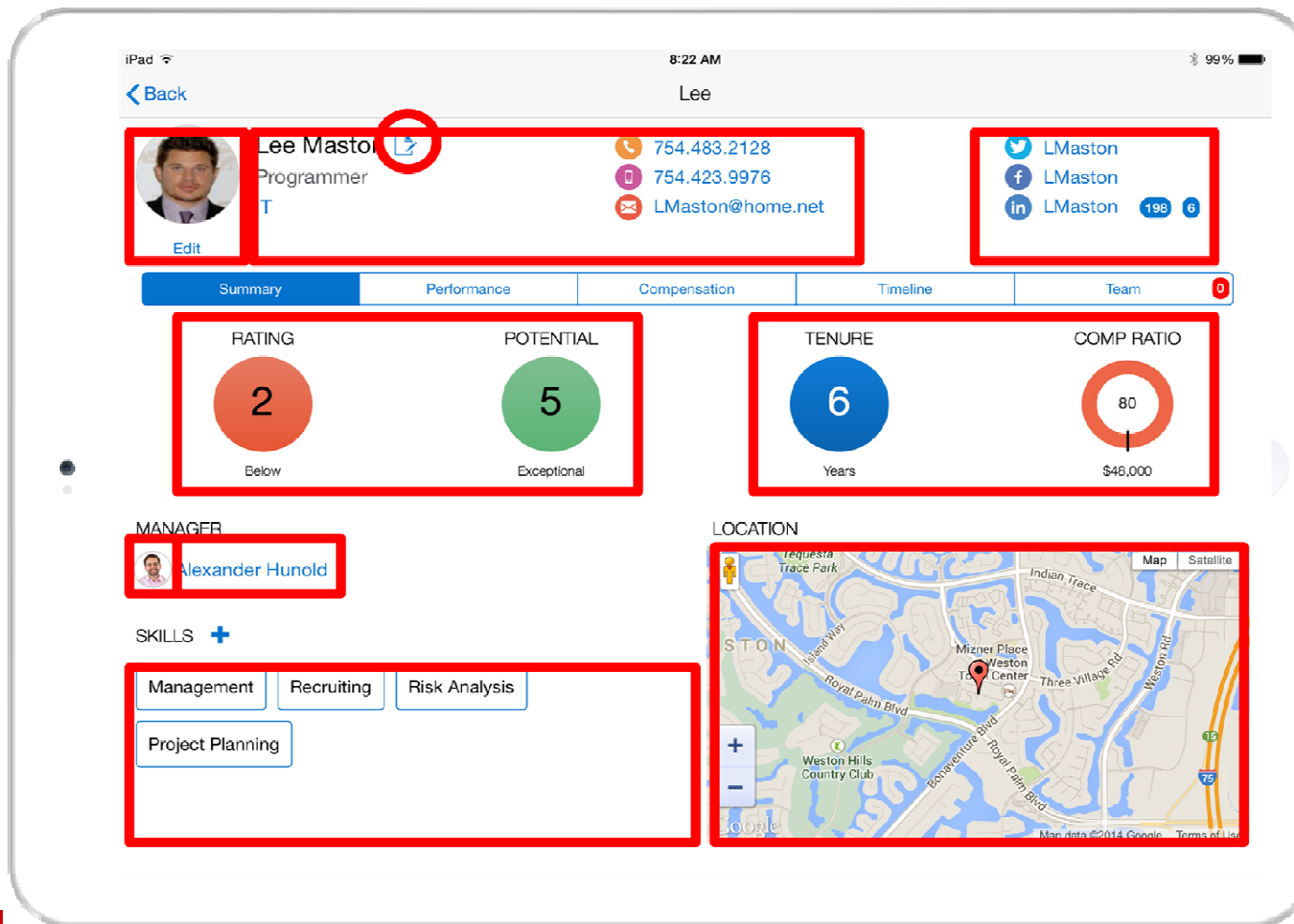
Mobile worker population reached **1.3 Billion** in 2015

Source: IDC Worldwide Mobile Worker Population 2011-2015 Forecast

Let's start with a simple HR Mobile App



Let's decompose this app



And map it to the systems of record

Lee Maston
Programmer
754.483.2128
754.423.9976
LMaston@home.net

Core HR
PeopleSoft, SAP
On Premise

Social Networks
Twitter, Facebook, LinkedIn
Web

Summary Performance Compensation Timeline Team

Talent Management
RATING: 2 (Below) | POTENTIAL: 5 (Exceptional)
Taleo Cloud

Core HR
TENURE: 6 (Years) | COMP RATIO: 80 (\$48,000)
PeopleSoft, SAP
On Premise

MANAGER
Alex Scott
Core HR

LOCATION
Map Service
Google
Web

SKILLS +
Management, Recruiting, Risk Analysis, Project Planning
Talent Management
Taleo Cloud

Simple app soon became complicated to develop...

Monitor & Analyze



Client Dev Tools



Mobile Services



Integration



Multiple Environments

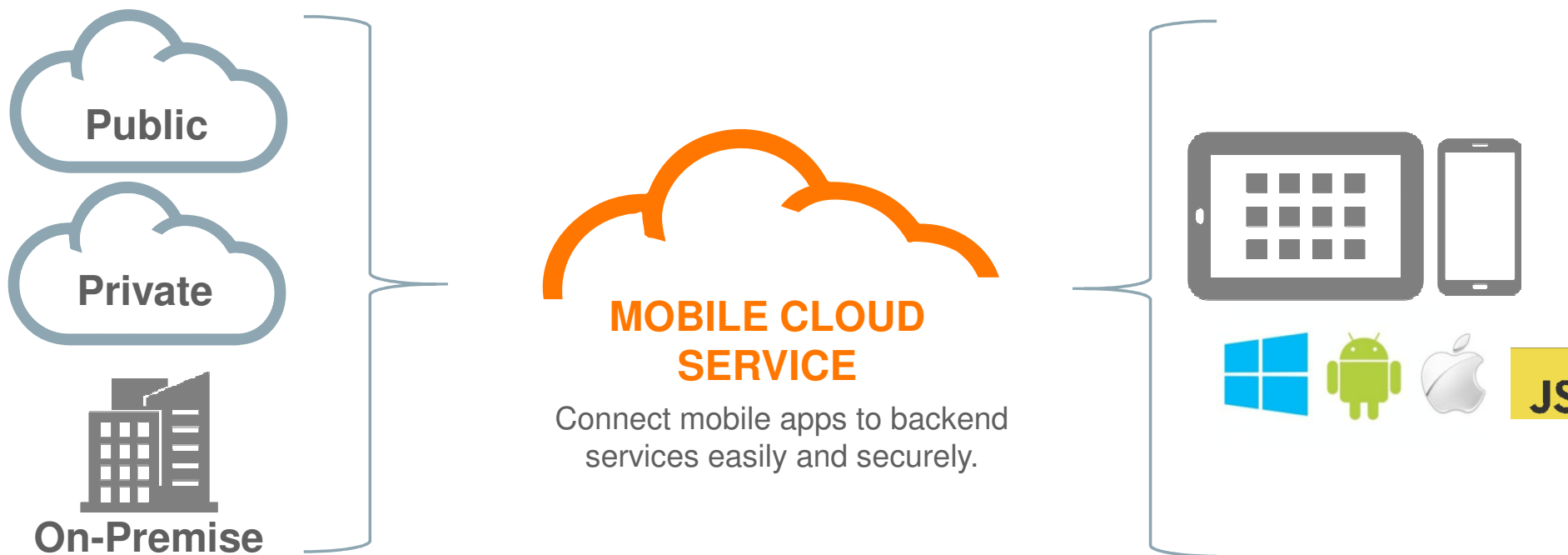


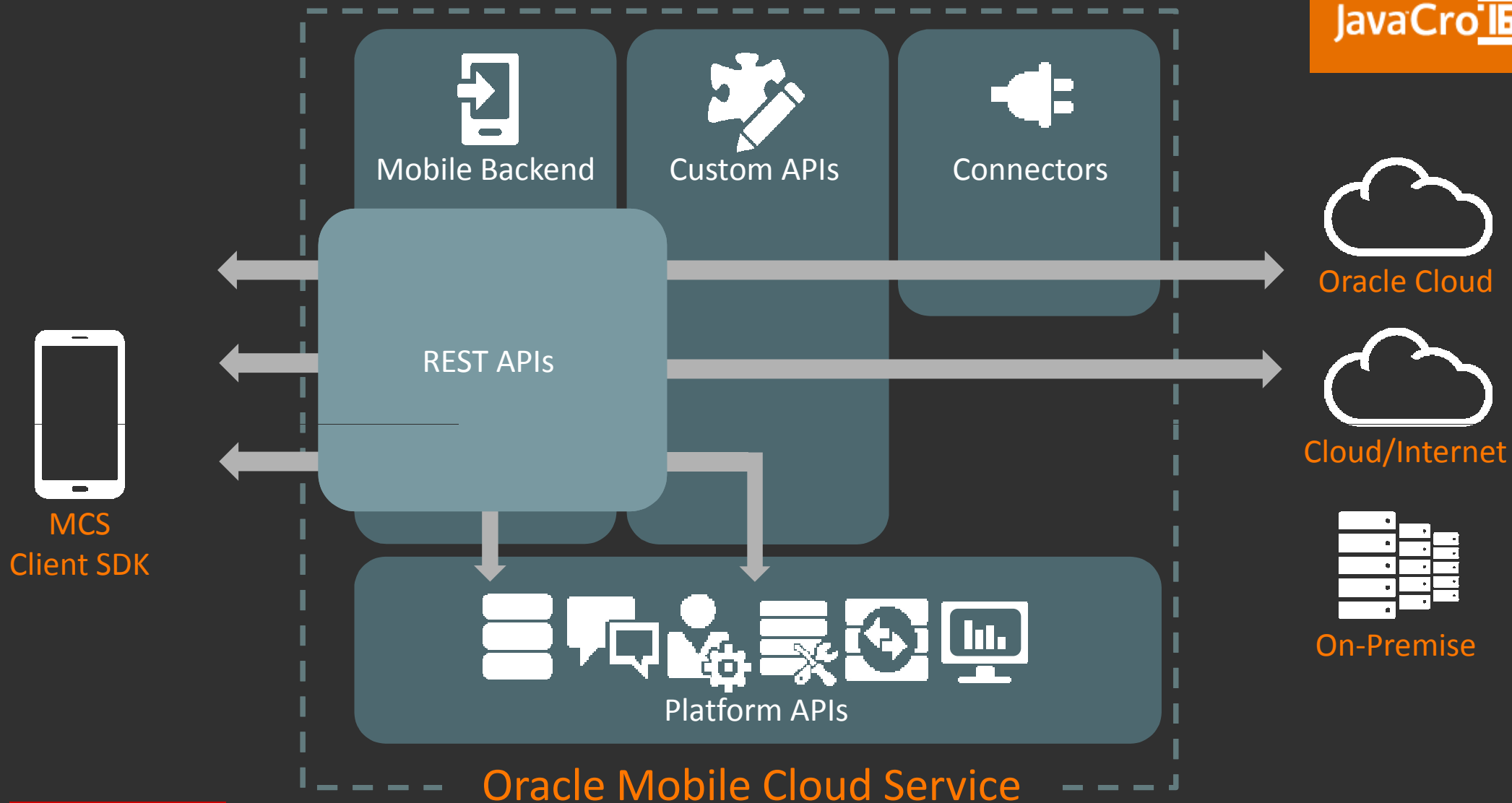
Security

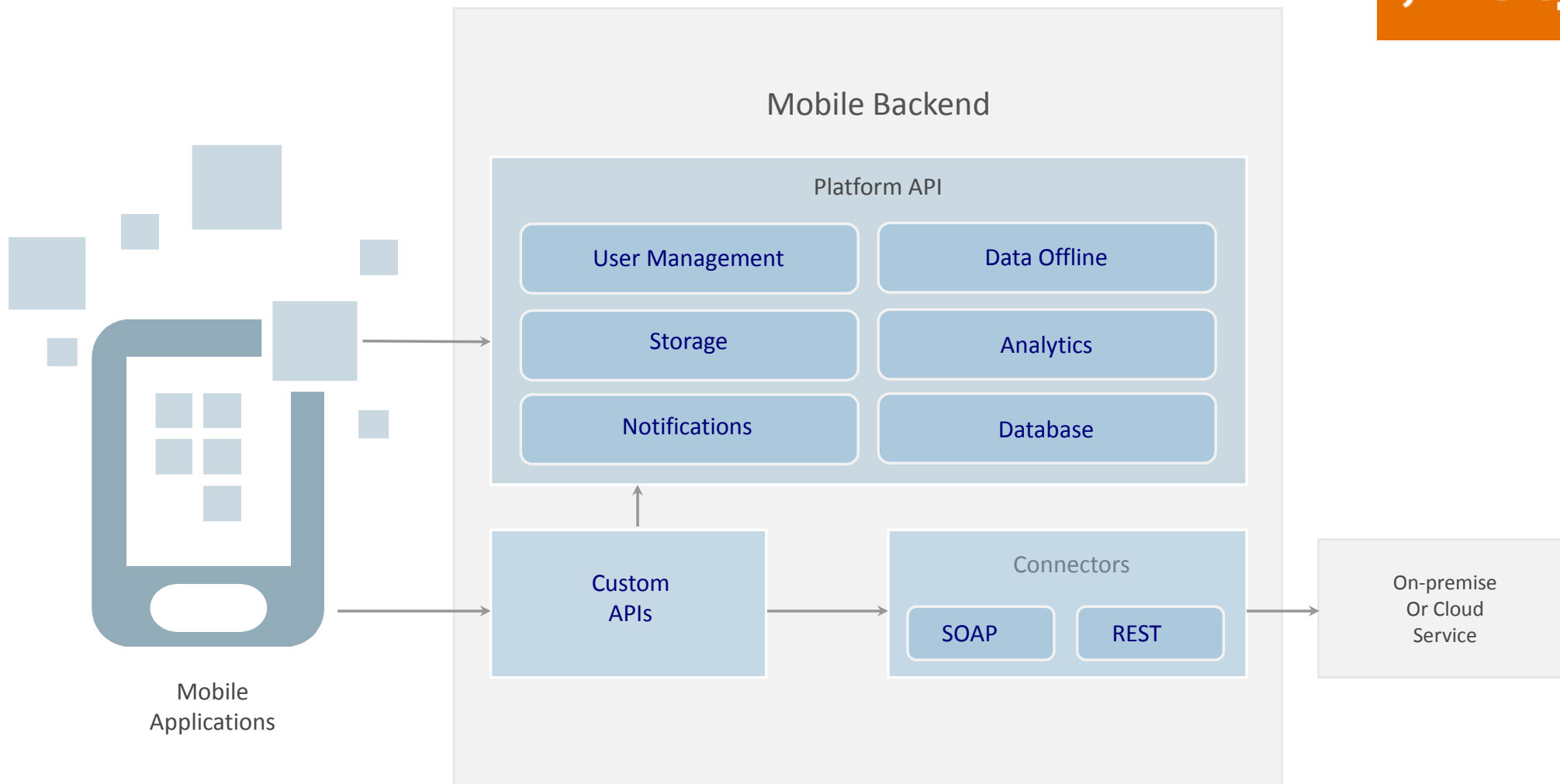


Mobile Platform

Normalisation, Blending, Data Shaping, Analytics







User Management

Login

- Login API has no operation associated with it
 - Candidate for removal
 - Can be used by mobile client application to do an "un-expensive" check if user authorization in HTTP request header parameter is valid

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization					
REST Methods	GET	PUT	POST	DELETE	HEAD	
REST URI	/mobile/platform/users/login					

User Management REST API

User-Information

- Obtain authenticated user information from realm
 - Response contains UMS internal user id (e.g. "id": "b727490b-3b25-412c-bb56-c7f3db2a20d2")
- Authenticated users can access their own user information only
- No user information available for anonymous users

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization				
REST Methods	GET	PUT	POST	DELETE	HEAD
REST URI	/mobile/platform/users/{username}				

Storage

- CRUD operation on shared or user isolated collections of opaque objects
 - Documents, Images, Script Files etc.
 - Payload is JSON or binary streams
- Requires users to have one or more of the following permission
 - READ, READ_WRITE, READ_ALL, READ_WRITE_ALL

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization, Accept, If-Match, If-None-Match, Oracle-Mobile-Synch-Agent					
REST Methods	GET	PUT	POST	DELETE	HEAD	
REST URI	/mobile/platform/storage/collections/{collection}/objects/{object}					

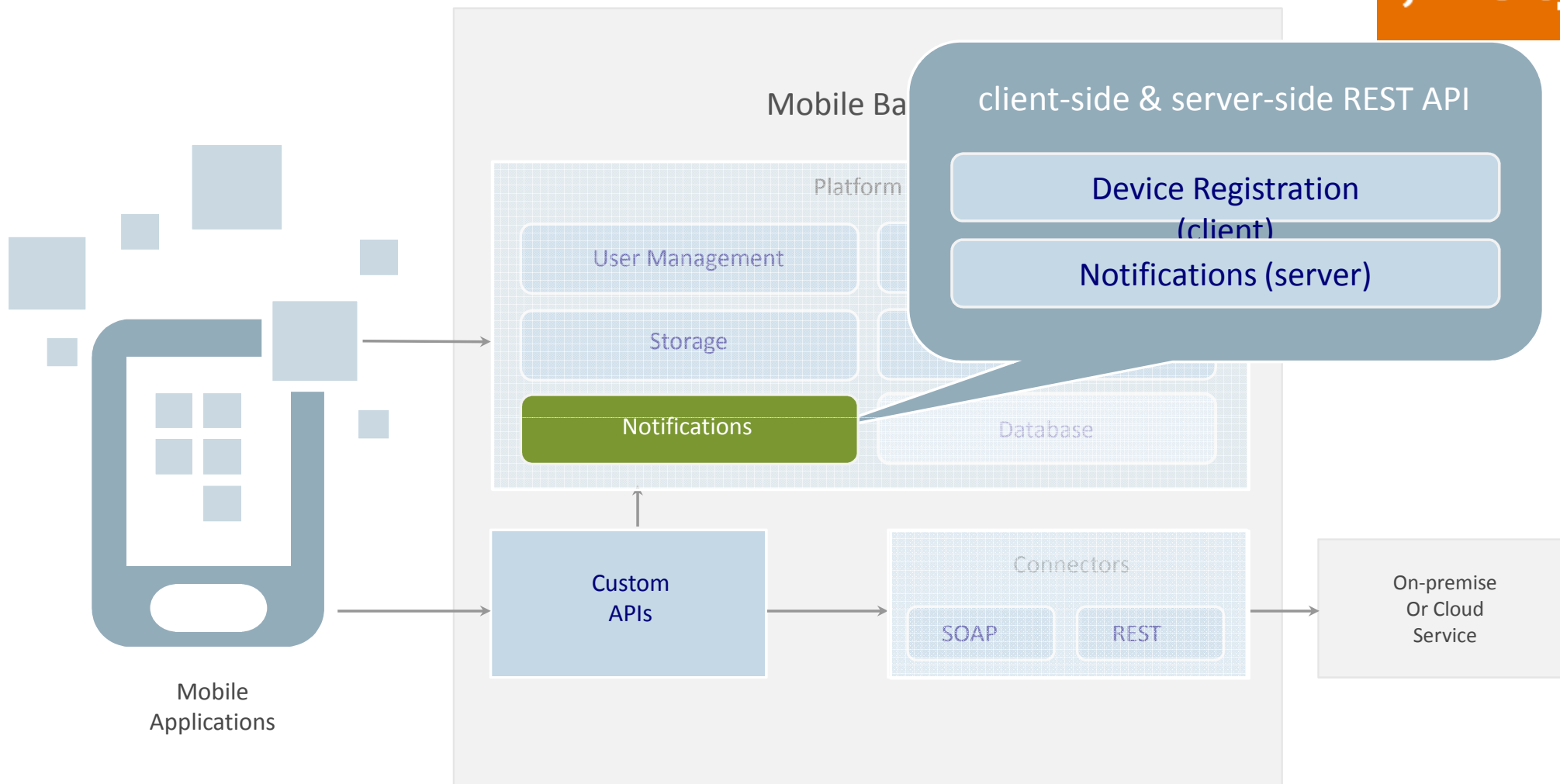
Data Offline (Sync)

Device Registration

- Ability of REST clients to send MCS client API requests bundled in a single batch
 - JSON array of request objects (JSON object)
- Each request
 - Has its own set of request headers
 - Defines its own HTTP method and message body

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization, Content-Type				
REST Methods	GET	PUT	POST	DELETE	HEAD
REST URI	http://slc09mdi.us.oracle.com:7201/mobile/platform/sync/batch				



Notifications

Device Registration

- Registers iOS and Android Devices to retrieve push notifications sent from MCS and delivered from Google GCM and Apple APNS
- Mobile applications needs to be created for Android and iOS
 - Mobile client Id defined from package and Application name (Android) and Application bundle Id (iOS)
- Messages sent from Custom API

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization, Content-Type				
REST Methods	GET	PUT	POST	DELETE	HEAD
REST URI	/mobile/platform/devices/register , /mobile/platform/devices/deregister				

Notifications

Sending and Managing Messages

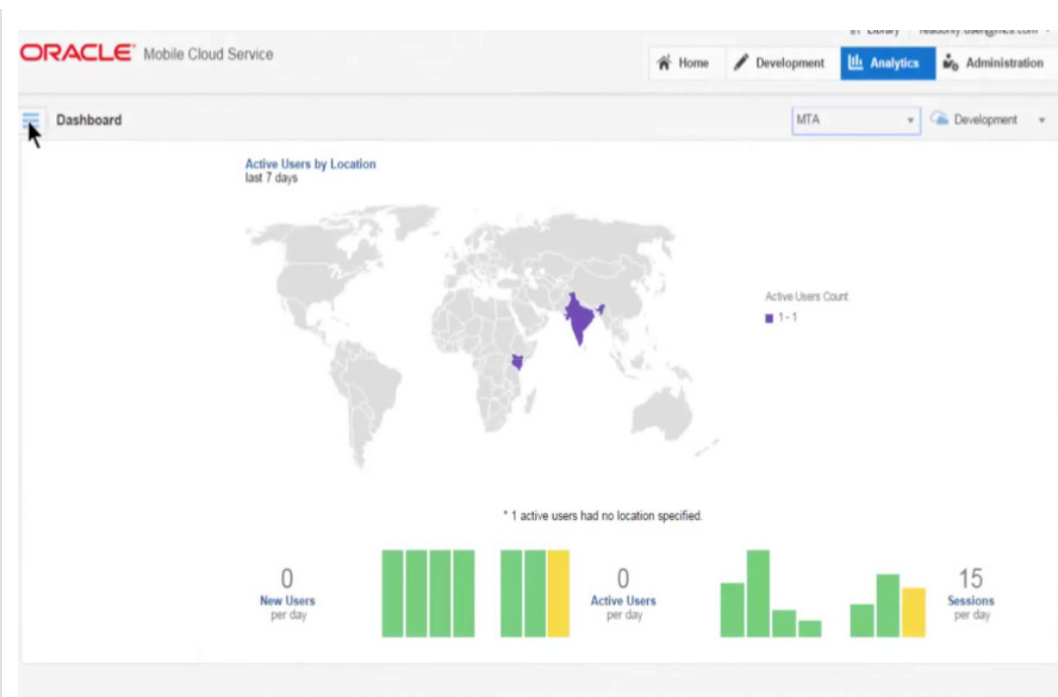
- Messages can be queued for immediate or scheduled delivery to push notification service provider (GMC, APNS)
- Notifications API can only be accessed through server-side REST calls
 - Mobile application user accounts lack required privileges
 - Custom API may be used to expose notification sending ability to mobile clients (use case matters!)

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization, Content-Type				
REST Methods	GET	PUT	POST	DELETE	HEAD
REST URI	/mobile/system/notifications/notifications, /mobile/system/notifications/notifications/{id}				

Mobile Cloud Service Analytics

- Monitoring API calls and response times
- Custom analytics events
- Identifying improvement areas



Analytics

- JSON payload
- Session start, Session end, Context and Custom event
- Used by client applications to track the usage of a mobile application
- Recorded events can be analyzed in MCS portal UI

REST Call Example

Header Parameter	Oracle-Mobile-Backend-ID, Authorization, Oracle-Mobile-Device-Id, Oracle-Mobile-Application-Key					
REST Methods	GET	PUT	POST	DELETE	HEAD	
REST URI	/mobile/platform/analytics/events					

Mobile Application Accelerator (MAX)

Mobile App Development Feature of the Oracle Mobile Cloud Service

ANYONE CAN BUILD MOBILE APPS

NO CODING REQUIRED

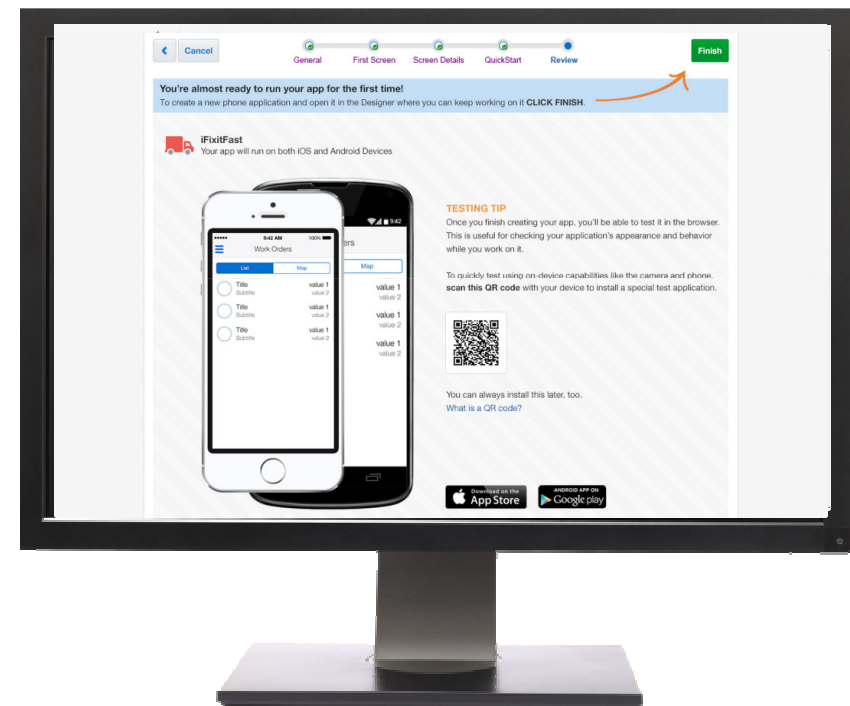
CREATE COMPLETE APPS OR REUSABLE MODULES

COMPONENTS READY TO USE OR EXTEND

EASILY MAP TO BUSINESS SERVICES

PREVIEW APPS IN LINE AS YOU DEVELOP

EDIT, TEST, AND PUBLISH FROM BROWSER



Demo

Mobile First with Oracle Forms

The Art of the Possible

What end-users have...

Legacy Oracle Forms Applications

The screenshot displays the Oracle Contact Center application interface. At the top, there is a menu bar (File, Edit, View, Folder, Tools, Reports, Window, Help) and the Oracle logo. Below the menu is a toolbar with various icons. The main window is titled "Contact Center" and features a search bar with "Service Request Number" selected and a "Search" button. To the right, there is a "View Details For" dropdown menu showing "Customer: American Telephone & Telegr...".

The "Caller Information" section contains several input fields and buttons. Buttons include "Clear Contact", "Create Contact", "Edit Contact", "Clear Cust", "Create Cust (M)", and "Edit Cust". Fields include "First" (Donna), "Last", "Type" (Organization), "Number" (61803), "Relation" (Contact For), "Cust Name" (American Telephone &), "Cust Number" (1001), "Phone", "E-mail", "Acct Num" (1001), "Cust URL" (www.americanteleph), "Address", "Cust Phone", "Cust E-mail", "Postal", "Country" (United States), "Cust Address" (AS_DEFAULT), "Cust Postal" (10013), "Cust Country" (United States), "Time Zone", and "Time".

Below the caller information is a navigation bar with tabs: Dashboard, Interactions, Notes, Tasks, Service Request, Contracts, Install Base, Invoices, Orders, Collateral, Addresses, and Contact Points. The "Interactions" tab is active, displaying a table of interactions.

Interaction Id	Customer Name	Contact	Agent	Start Date	Reason	Result
68967	American Telephone & Telegraph			02/02/2006 17:01:30	Support Requ...	SR Created
68951	American Telephone & Telegraph			02/02/2006 16:58:15	Support Requ...	SR Created
68950	American Telephone & Telegraph			02/02/2006 16:45:05	Support Requ...	SR Created
68948	American Telephone & Telegraph			02/02/2006 16:00:55	Support Requ...	SR Created
68946	American Telephone & Telegraph			02/02/2006 12:49:58	Support Requ...	SR Created

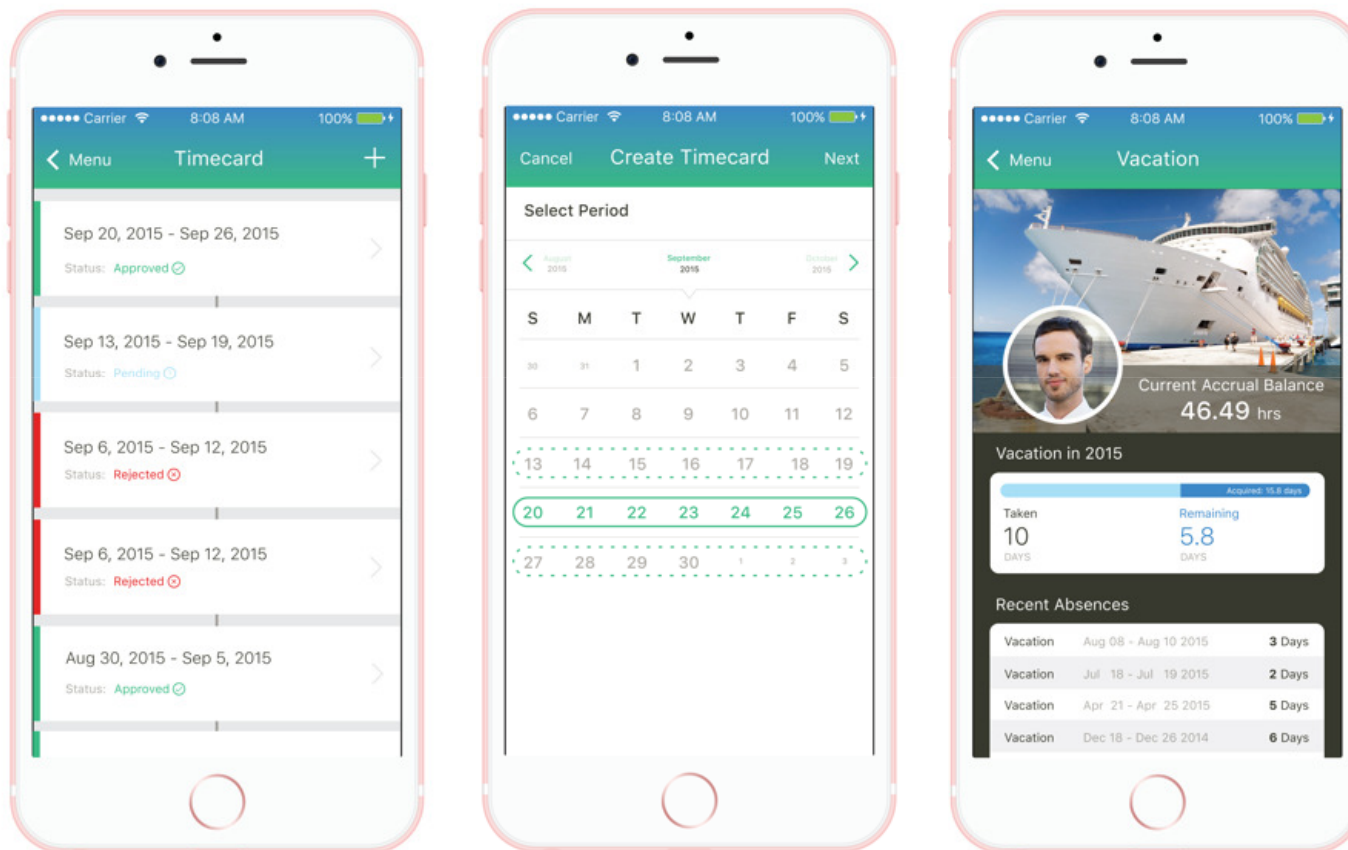
Below the interaction list is the "Activity Details" section, which shows a table of activities:

Start Date	End Date	Media	Activities	Document	Reason	Result	Outcome
02/02/2006 17:...	02/02/2006 17:...		Inquired about Customer	1001	Support Requ...	SR Created	Issue Resolved

At the bottom of the window, there are two buttons: "Account Interactions" and "All Interactions".

...what end-users want

Modern Mobile 1st Apps



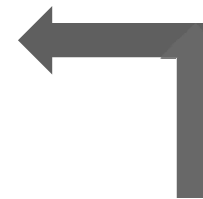
Solution Architecture

How Oracle Forms works today



Solution Architecture

How to mobilize Oracle Forms



Oracle Forms UI

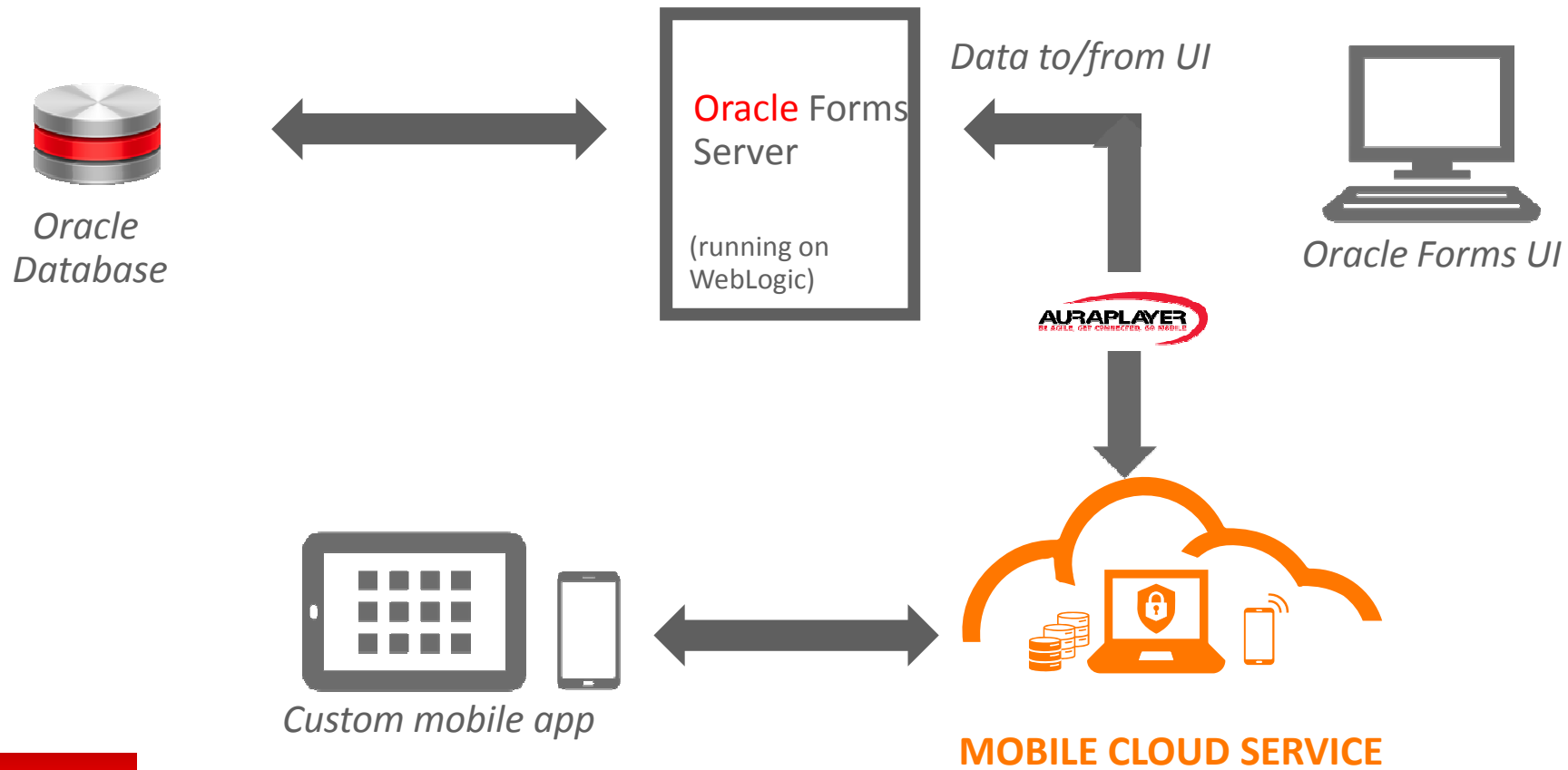


Web service to mimic the appropriate fields from the Forms UI

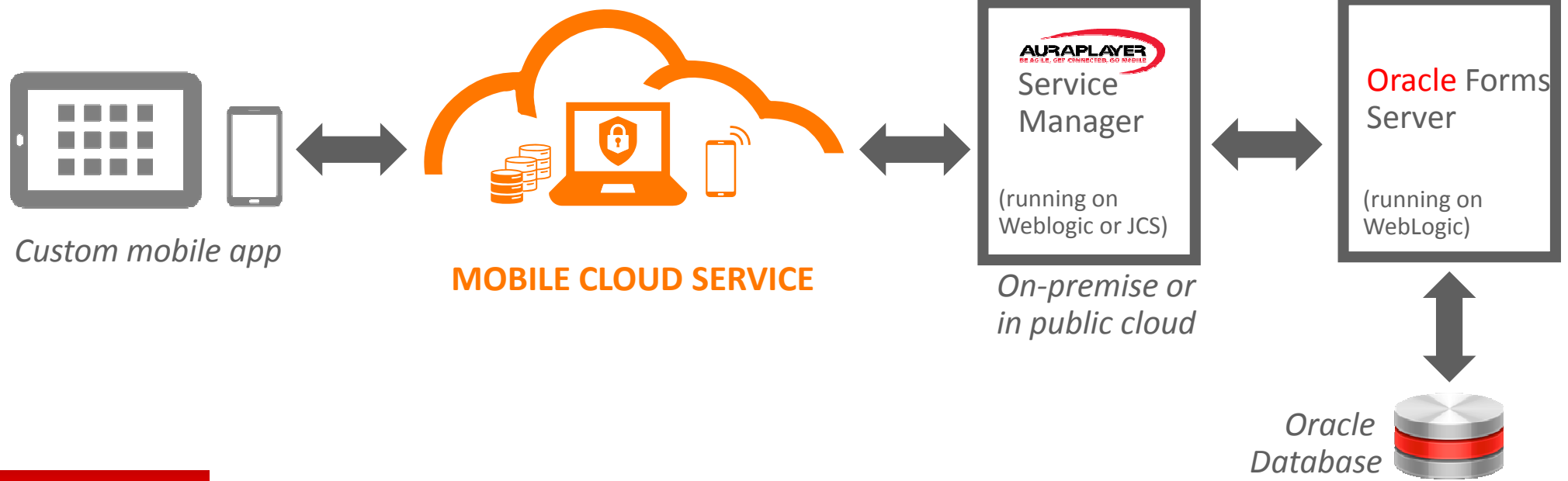


Solution Architecture

How to mobilize Oracle Forms



Solution Architecture



Customer Story

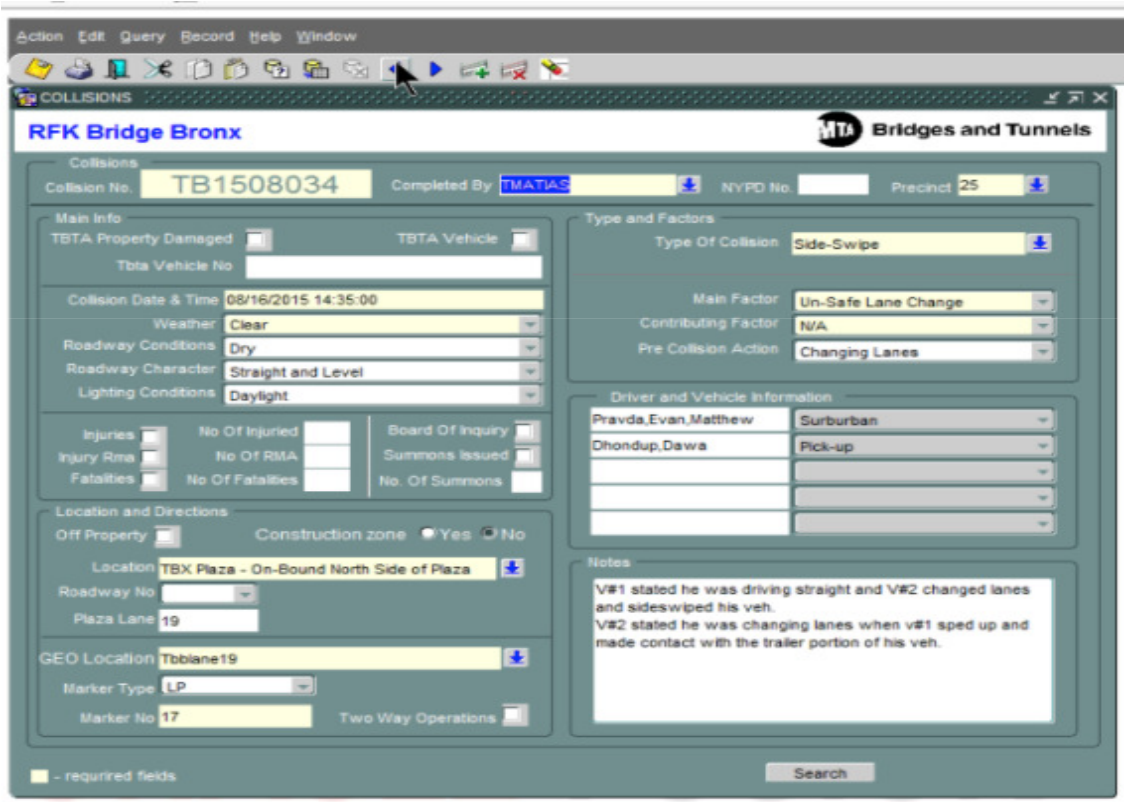
New York Municipal Transport Authority



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



Mobilizing the Oracle Forms CARS system using Oracle Mobile Cloud Service & AuraPlayer





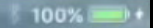
Mobilizing the Oracle Forms CARS system using Oracle Mobile Cloud Service & AuraPlayer



Demo



9:41 AM



Find Friends



News



MTA Cars



Safari



Mail




Videos




Music



Collision Analysis Reporting System

 | Jennifer.Rivera

 |

LOG IN



Jennifer Rivera

Manhattan, New York

Choose Facility

Friday | Mar 04, 2016



Report Collision



Today's Collisions



Search Collisions



Change Facility (Admin Only)

Log Out

Choose Facility

BRIDGES



Bronx-Whitestone Bridge



Cross Bay Veterans Memorial Bridge



Henry Hudson Bridge



Marine Parkway-Gil Hodges Memorial Bridge



Throgs Neck Bridge



Robert F. Kennedy Bridge



TUNNELS



Brooklyn-Battery Tunnel



Queens-Midtown Tunnel



Jennifer Rivera

Manhattan, New York

Choose Facility

Friday | Mar 04, 2016



Report Collision



Today's Collisions



Search Collisions



Change Facility (Admin Only)

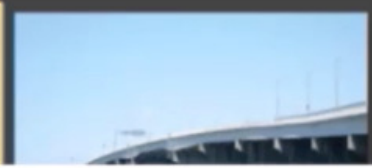
Log Out

Choose Facility

BRIDGES



Bronx-Whitestone Bridge



Henry Hudson Bridge



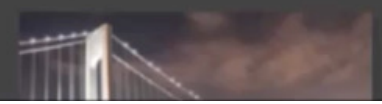
Marine Parkway-Gil Hodges Memorial Bridge



Throgs Neck Bridge



Robert F. Kennedy Bridge



✓ Facility Changed

You have successfully changed the current facility to Bronx-Whitestone Tunnel

OK

TUNNELS



Brooklyn-Battery Tunnel



Queens-Midtown Tunnel



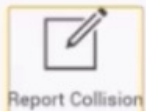
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Report Collision



Today's Collisions



Search Collisions



Change Facility (Admin Only)

Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Location *

Geo Location *

Roadway No

Marker Type

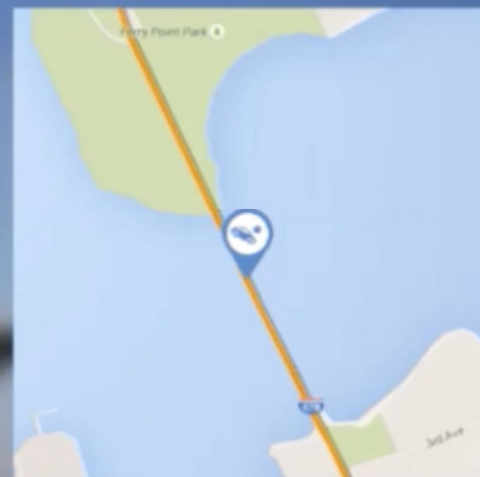
Plaza Lane

Marker No *

Off Property Two Way Operations

Construction Zone

Yes No



Save & Continue >



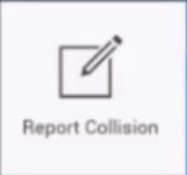
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Location *

Geo Location *

Before Toll Plaza S/B - Lanes 3-27

After Toll Plaza S/B - Lanes 3-27

Before Toll Plaza N/B - Lanes 2-28

After Toll Plaza N/B - Lanes 2-28

Lafayette Ave Exit LP 76-72

Bronx Ramp N/B LP 68-63

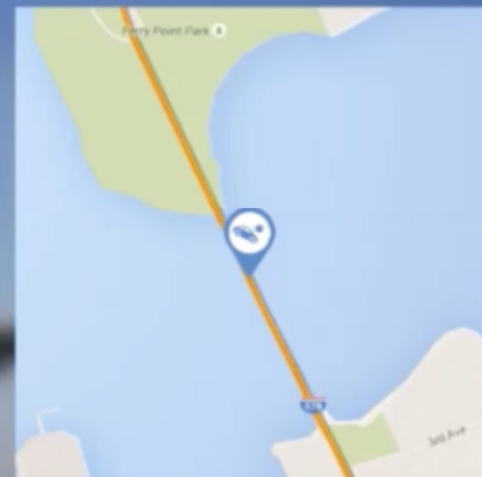
Bronx Ramp S/B LP 63-68

Bronx Approach N/B LP 45-62

Bronx Approach S/B LP 62-45

Marker Type

Marker No *



Save & Continue >



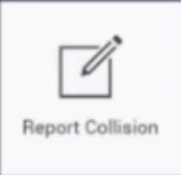
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Location *

Before Toll Plaza S/B - Lanes 3-27

Roadway No

Plaza Lane

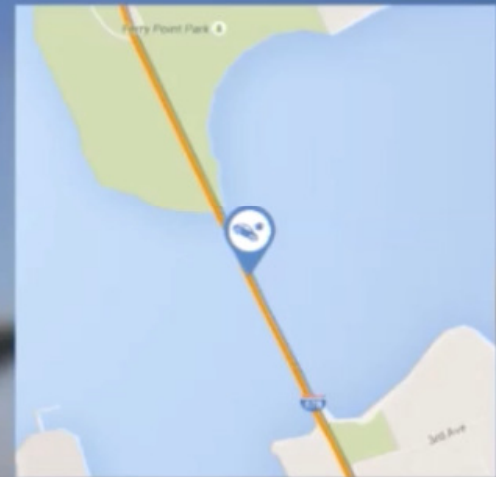
Off Property Two Way Operations

Construction Zone

Yes No

Geo Location *

- Bwlane1
- Bwlane3
- Bwlane5
- Bwlane7
- Bwlane9
- Bwlane11
- Bwlane13
- Bwlane15
- Bwlane17



Save & Continue >

Bronx-Whitestone Tunnel

Report Collision

Today's Collisions

Search Collisions

Change Facility (Admin Only)

Log Out



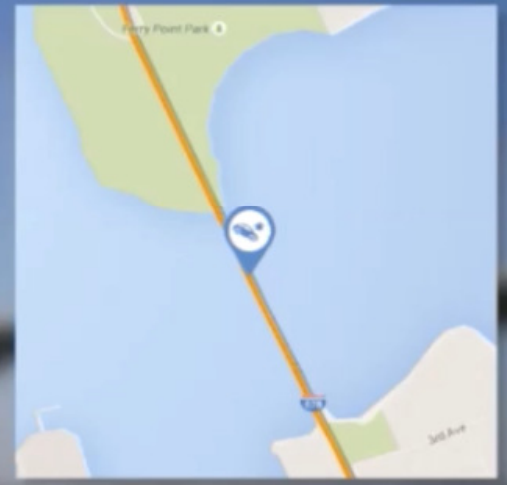
Location *
Before Toll Plaza S/B - Lanes 3-~~27~~

Roadway No
1
1 & 2
2
2 & 3
3
3 & 4
4

Geo Location *
Bwlane3

Marker Type

Marker No *



Save & Continue >



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Report Collision



Today's Collisions



Search Collisions



Change Facility (Admin Only)

Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Location *

Before Toll Plaza S/B - Lanes 3-~~27~~

Geo Location *

Bwlane3

Roadway No

1

Marker Type

Plaza Lane

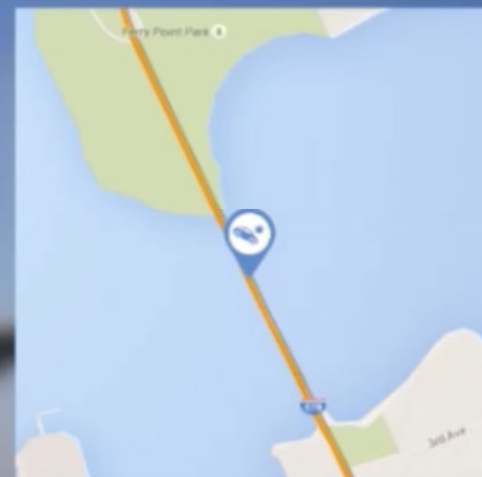
Marker No *

|

Off Property Two Way Operations

Construction Zone

Yes No



Save & Continue >



7% 2:46 PM

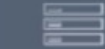


Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016



Search Collisions

Roadway No

1

Marker Type

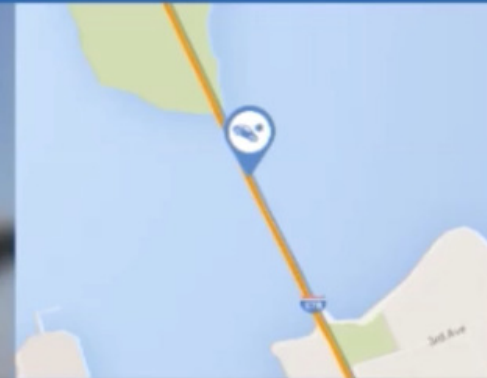
Plaza Lane

Marker No *

Off Property Two Way Operations

Construction Zone

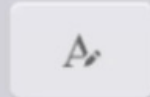
Yes No



The

And

On



123 Sym



English(UK)



Go



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Search Collisions

Before Time 10:00 AM - 12:00 PM

Roadway No
1

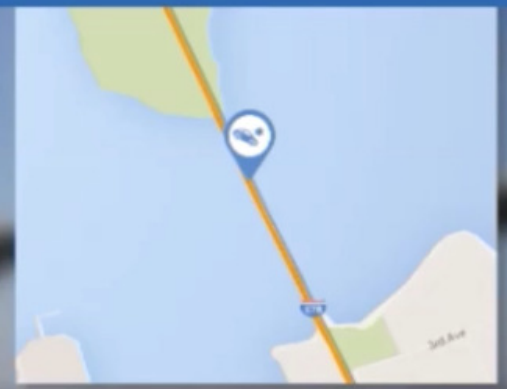
Plaza Lane

Marker Type

Marker No *

Off Property Two Way Operations

Construction Zone
 Yes No



The And On >

1234



7% 2:46 PM



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016



Search Collisions

Roadway No

1

Marker Type

Plaza Lane

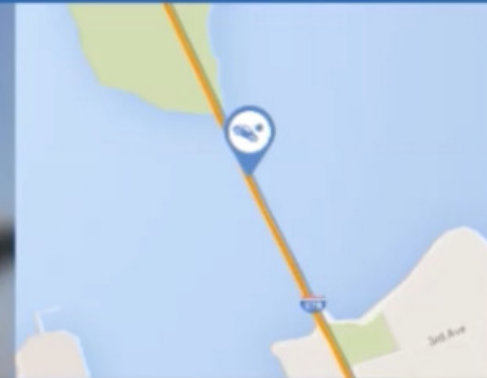
Marker No *

1234

Off Property Two Way Operations

Construction Zone

Yes No



1234

123<1

1239



1234



123 Sym



English(UK)



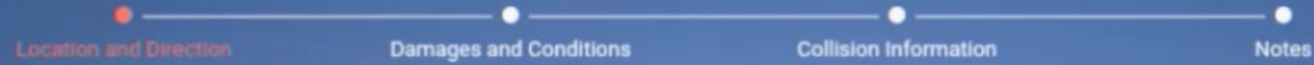
Go

Report Collision

Today's Collisions

Search Collisions

Change Facility (Admin Only)
Log Out



Location * Before Toll Plaza S/B - Lanes 3-27

Geo Location * Bwlane3

Roadway No 1

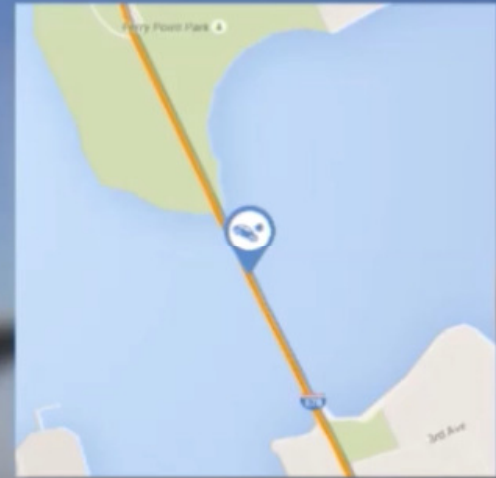
Marker Type

Plaza Lane

Marker No * 1234

Off Property Two Way Operations

Construction Zone
 Yes No



Save & Continue >



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Report Collision



Today's Collisions



Search Collisions



Change Facility (Admin Only)

Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Collision No.
Will be generated when synched.

Completed By *



Jennifer Rivera

NYPD No.

Precinct *

Collision Date & Time *



03/04/2016 2:46 PM

Driver's Name

Car Type

1

2

3

4

5

← Back

Save & Continue >



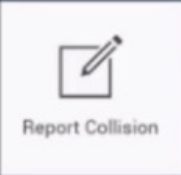
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Log Out



Collision No.
Will be generated when synched.

Completed By *
 Jennifer Rivera

NYPD No.

Precinct *

- Queens
- Bronx

	Driver's Name	Car Type
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>

← Back

Save & Continue →



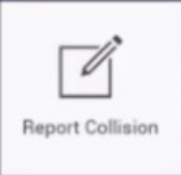
Jennifer Rivera

Manhattan, New York

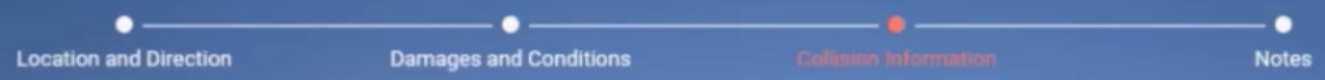
Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Log Out



Collision No.
Will be generated when synched.

Completed By *
 Jennifer Rivera

NYPD No.

Precinct *
 Queens

Collision Date & Time *
 03/04/2016 2:46 PM

	Driver's Name	Car Type
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>

← Back

Save & Continue >



7% 2:47 PM



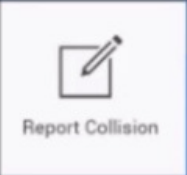
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



- Location and Direction
- Damages and Conditions
- Collision Information**
- Notes

Collision No.
Will be generated when synched.

Completed By *

Jennifer Rivera

NYPD No.

Driver's Name

1

Car Type

2

The

And

On



123 Sym



English(UK)



Go



7% 2:47 PM



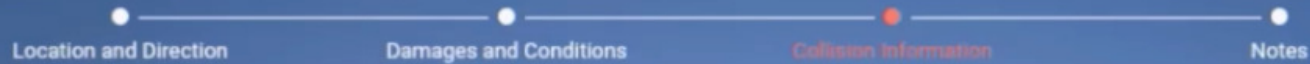
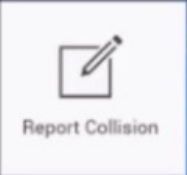
Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Collision No.
Will be generated when synched.

Completed By *

Jennifer Rivera

NYPD No.

	Driver's Name	Car Type
①	<input type="text"/>	<input type="text"/>
②	<input type="text"/>	<input type="text"/>

The And On >

Mia Jones



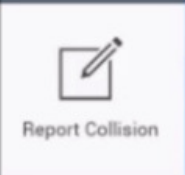
Jennifer Rivera

Manhattan, New York

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Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Report Collision



Today's Collisions

Location and Direction

Damages and Conditions

Collision Information

Notes

Collision No.
Will be generated when synched.
Completed By *

Jennifer Rivera

NYPD No.

Driver's Name

1 Mia Jones

2

Car Type

Jones

jones

Tones



Mia Jones



123 Sym



English(UK)



Go



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel

Report Collision

Today's Collisions

Search Collisions

Change Facility (Admin Only)

Log Out

Location and Direction

Damages and Conditions

Collision Information

Notes

Collision No.
Will be generated when synched.

Completed By *

Jennifer Rivera

NYPD No.

Precinct *

Queens

Collision Date & Time *

03/04/2016 2:46 PM

Driver's Name

1 Mia Jones

2

3

4

5

Car Type

Bus

Commercial Truck

Commercial Van

Motorcycle

N/A

Other

Pick-up

Private Passenger

SUV

← Back



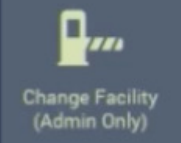
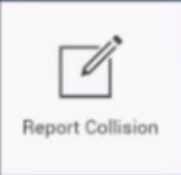
Jennifer Rivera

Manhattan, New York

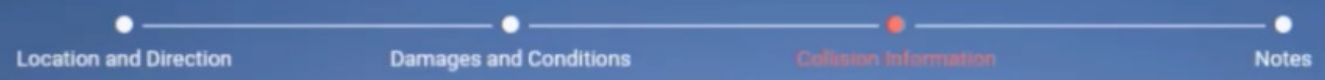
Report Collision

Friday | Mar 04, 2016

Bronx-Whitestone Tunnel



Log Out



Collision No.
Will be generated when synched.

Completed By *
 Jennifer Rivera

NYPD No.

Precinct *
 Queens

Collision Date & Time *
 03/04/2016 2:46 PM

	Driver's Name	Car Type
1	Mia Jones	Motorcycle
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>

← Back

Save & Continue >

Bronx-Whitestone Tunnel

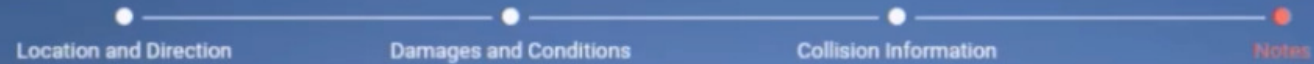
Report Collision

Today's Collisions

Search Collisions

Change Facility (Admin Only)

Log Out



Notes

Take Photos of Documents

Take Photos of Reports

Take Photos of Collision

Take Photo
Choose Photo From Library

← Back

✓ Save




Jennifer Rivera


Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016


Report Collision


Today's Collisions


Search Collisions


Change Facility
(Admin Only)

Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		<input type="checkbox"/> Sync All <input checked="" type="checkbox"/> Action




Jennifer Rivera


Manhattan, New York


Today's Collisions

Friday | Mar 04, 2016



Report Collision



Today's Collisions







Search Collisions


Change Facility
(Admin Only)

Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		

 Sync All

-  Action ▾
-  Edit
 -  Remove
 -  Sync
 -  E-mail

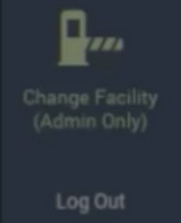
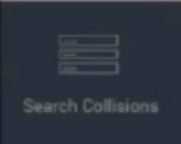
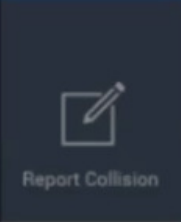


Jennifer Rivera

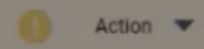
Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016




Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		Sync



- Edit
- Remove
- Sync**
- E-mail

Error

 Collision sync failed: Please enter a Plaza Lane.;

OK



Jennifer Rivera

Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016

- Report Collision
- Today's Collisions
- Search Collisions
- Change Facility (Admin Only)
- Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		Sync All Action <ul style="list-style-type: none"> Edit Remove Sync E-mail



8% 2:54 PM



Jennifer Rivera

Manhattan, New York

Report Collision

Friday | Mar 04, 2016

Search Collisions

Before 10/1/2014 0/0 - End 0/0

Roadway No
[Dropdown menu]

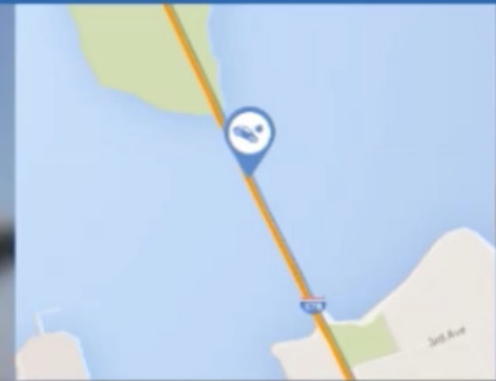
Marker Type
[Dropdown menu]

Plaza Lane
12

Marker No *
123

Off Property Two Way Operations

Construction Zone
 Yes No



12

12

It



12



123 Sym



English(UK)



Go




Jennifer Rivera

Manhattan, New York


Report Collision

Friday | Mar 04, 2016

BRONX-WHITESTONE TUNNEL


Report Collision


Today's Collisions

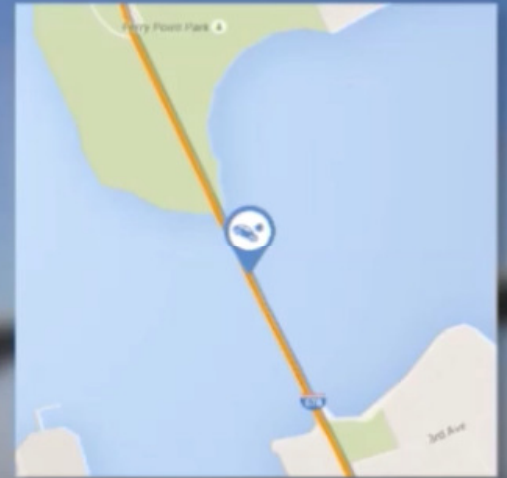

Search Collisions


Change Facility
(Admin Only)

Log Out

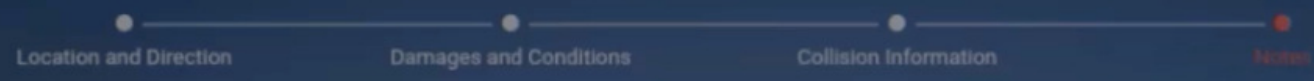


<p>Location *</p> <p>Before Toll Plaza S/B - Lanes 3-27</p>	<p>Geo Location *</p> <p>Bwlane1</p>
<p>Roadway No</p> <p>[Dropdown]</p>	<p>Marker Type</p> <p>[Dropdown]</p>
<p>Plaza Lane</p> <p>12</p>	<p>Marker No *</p> <p>123</p>
<p><input type="checkbox"/> Off Property <input type="checkbox"/> Two Way Operations</p>	
<p>Construction Zone</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	



Save & Continue >

- Report Collision
- Today's Collisions
- Search Collisions
- Change Facility (Admin Only)
- Log Out



Notes

- Take Photos of Reports
- Take Photos of Collision

✓ **Collision Log Stored**

You have successfully stored the collision log. You can sync with the CARS system when you go online.

OK

← Back

✓ Save




Jennifer Rivera


Manhattan, New York


Today's Collisions

Friday | Mar 04, 2016



Report Collision



Today's Collisions


Search Collisions


Change Facility
(Admin Only)

Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		 Action ▾

 Sync All



Jennifer Rivera

Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016

- Report Collision
- Today's Collisions
- Search Collisions
- Change Facility (Admin Only)
- Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB		03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		Sync All
						Action <ul style="list-style-type: none"> Edit Remove Sync E-mail



9% 2:55 PM



Jennifer Rivera

Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016



Report Collision



Today's Collisions



Search Collisions



Change Facility
(Admin Only)

Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB	BW1603001	03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		

Sync All

Info



Collision synced successfully!

OK



9% 2:55 PM




Jennifer Rivera


Manhattan, New York

Today's Collisions

Friday | Mar 04, 2016



Report Collision


Today's Collisions


Search Collisions


Change Facility
(Admin Only)

Log Out

Facility	Collision No.	Date & Time	Type of Collision	Location	Notes	Sync
BWB	BW1603001	03/04/2016 02:51	Rear-End	Before Toll Plaza S/B - Lanes 3-27		

 Sync All

Active Users by Location last 7 days



Active Users Count
■ 1-1

* 1 active users had no location specified.

0
New Users
per day



0
Active Users
per day



15
Sessions
per day

- Dashboard
- API Calls
- Events
- Funnels
- Users
- Sessions

Dashboard

MTA

Active Users by Location last 7 days



Active Users Count
■ 1 - 1

* 1 active users had no location specified.

0
New Users
per day



0
Active Users
per day



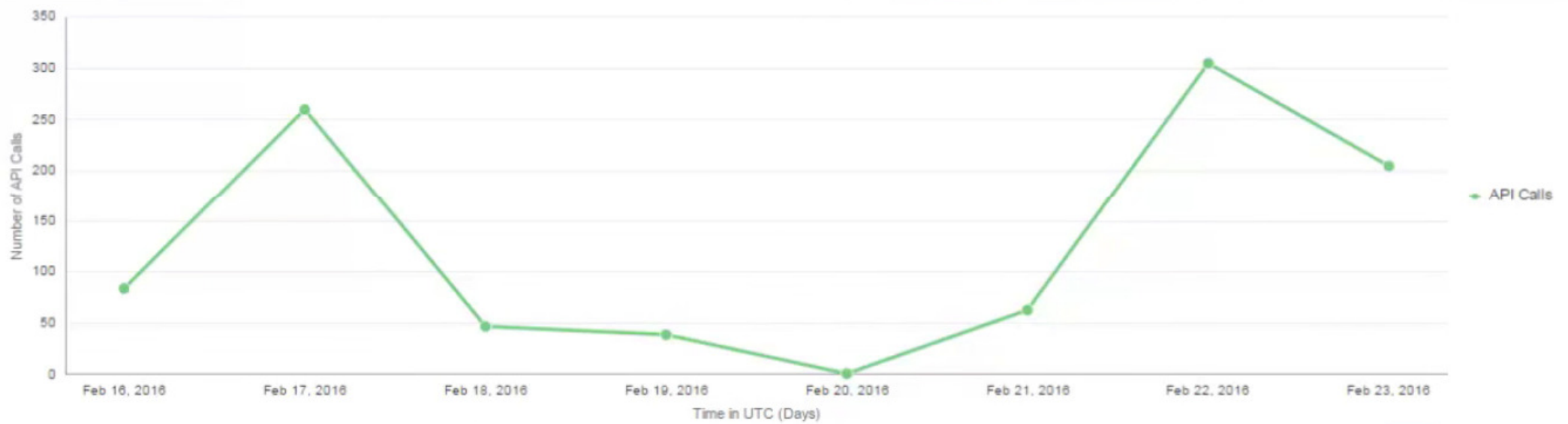
API Calls

MTA Development

API Calls Count API Calls Response Time

Total API Calls

1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16



1K
Total Calls

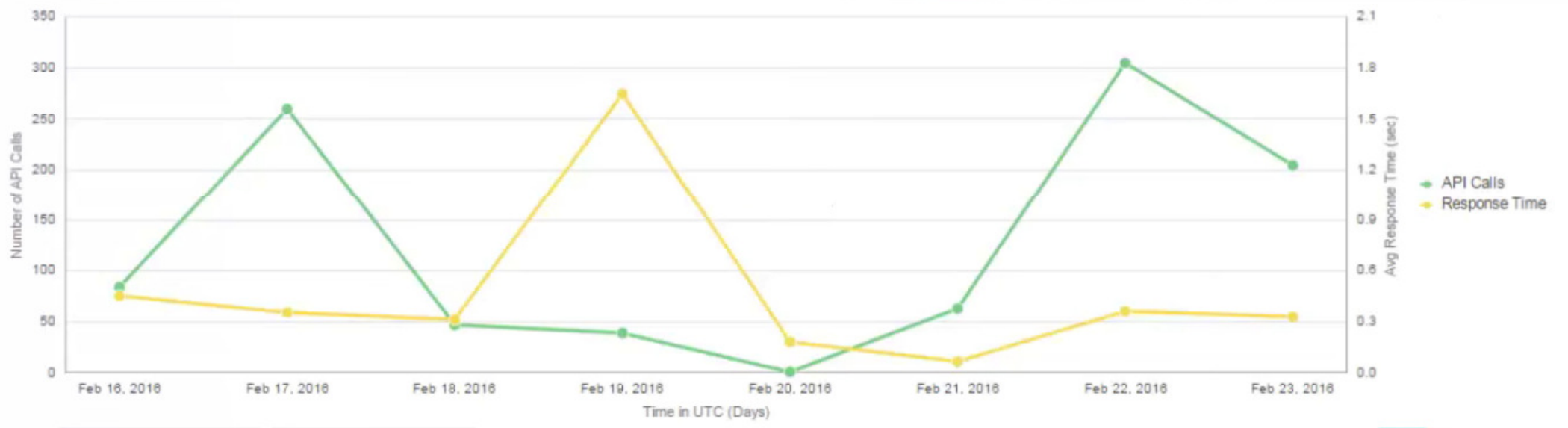
126
Calls/Day



API Calls Count API Calls Response Time

Total API Calls

1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16



126
Calls/Day

0.39
Avg Response Time (sec)



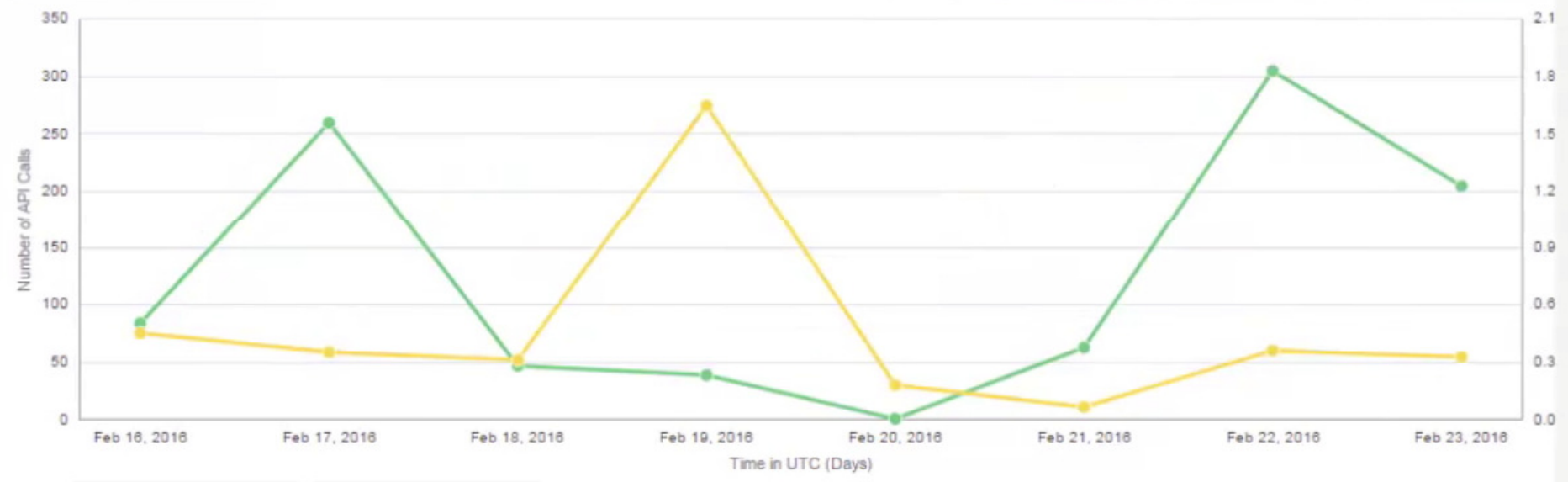
- Dashboard
- API Calls
- Events
- Funnels
- Users
- Sessions

API Calls MTA

API Calls Count API Calls Response Time

Total API Calls

1H 1D 1W 1M 3M 1Y ALL 02/16/16



126
Calls/Day

0.39
Avg Response Time (sec)

- Select an event
- Select an event
- CollisionSyncFailed
- CollisionSynced



No event is selected

The events report shows how customers use your mobile application. Select an event to start exploring related data.

[Tell me about events](#)

- Select an event
- Select an event
- CollisionSyncFailed
- CollisionSynced



No event is selected

The events report shows how customers use your mobile application. Select an event to start exploring related data.

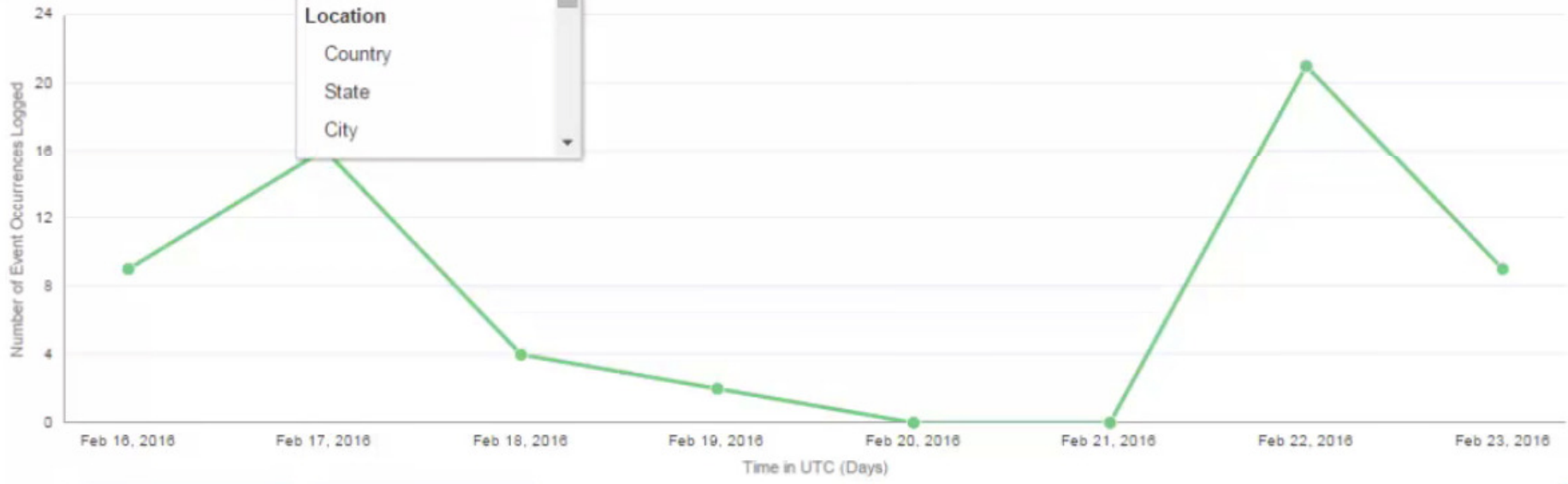
[Tell me about events](#)

CollisionSynced

- Select a group by property
- Select a group by property
- Custom
- Facility
- Location
- Country
- State
- City

1H 1D **1W** 1M 3M 1Y ALL | 02/16/16 | 02/23/16

Filters +



Event Occurrence

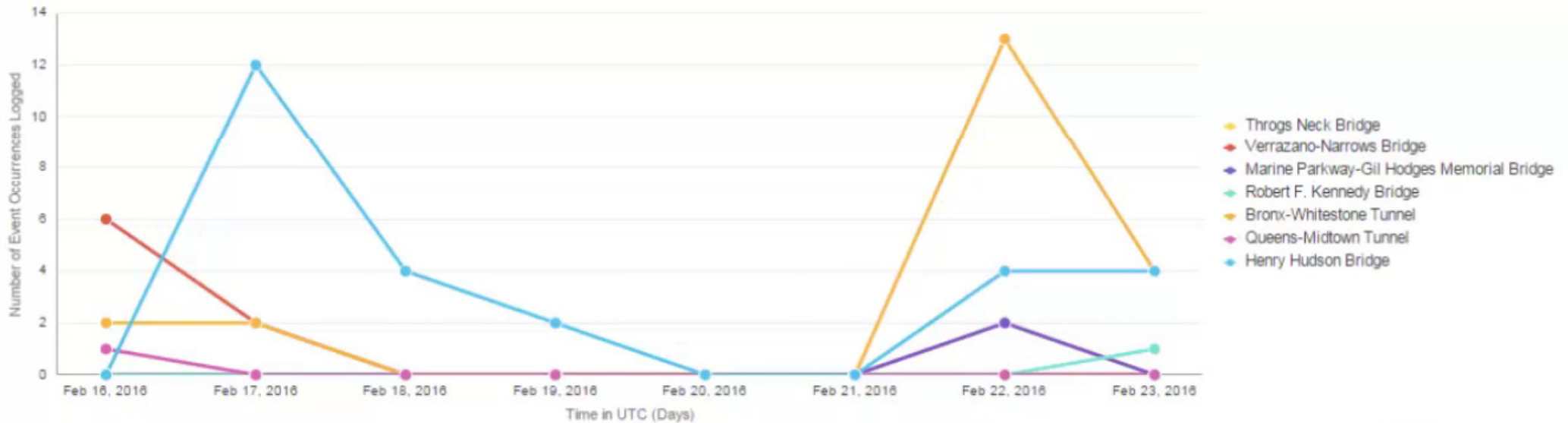
61
Occurrences

8
Occurrences/Day



CollisionSynced Facility 1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16

Filters +



61 Occurrences

8 Occurrences/Day



CollisionSynced

Select an event

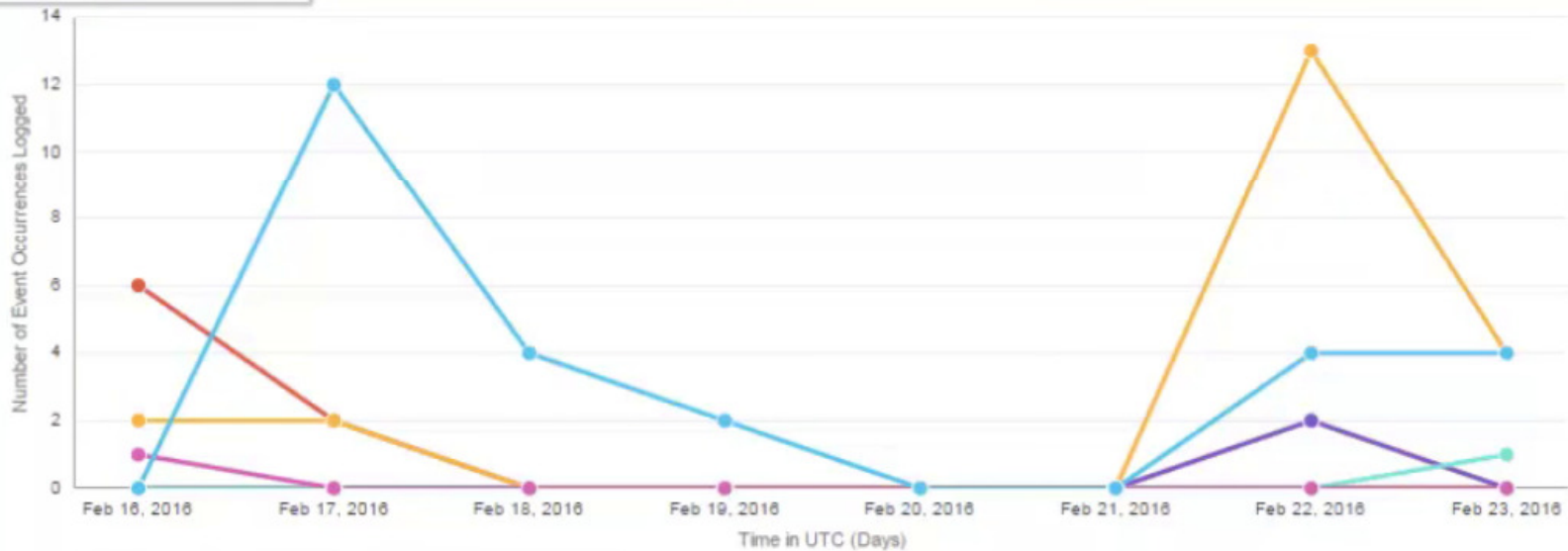
CollisionSyncFailed

CollisionSynced

Facility

1H 1D 1W 1M 3M 1Y ALL

02/16/16 02/23/16



- Throgs Neck Bridge
- Verrazano-Narrows Bridge
- Marine Parkway-Gil Hodges Memorial Bridge
- Robert F. Kennedy Bridge
- Bronx-Whitestone Tunnel
- Queens-Midtown Tunnel
- Henry Hudson Bridge

61 Occurrences

8 Occurrences/Day

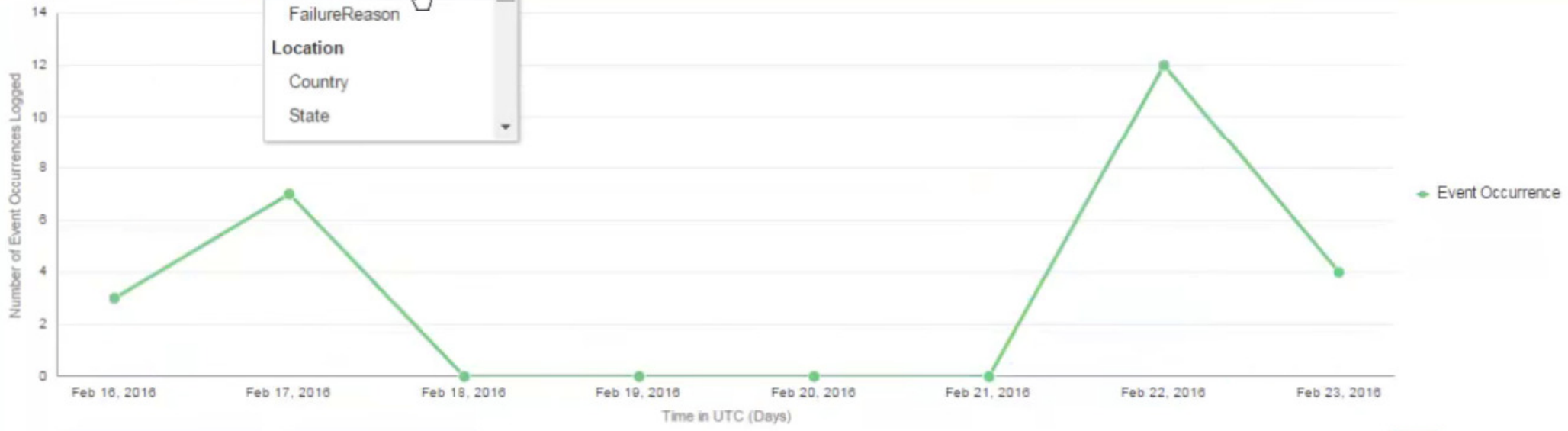


CollisionSyncFailed

- Select a group by property
- Select a group by property
- Custom
- Facility
- FailureReason
- Location
- Country
- State

1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16

Filters +



26 Occurrences

3 Occurrences/Day



Events

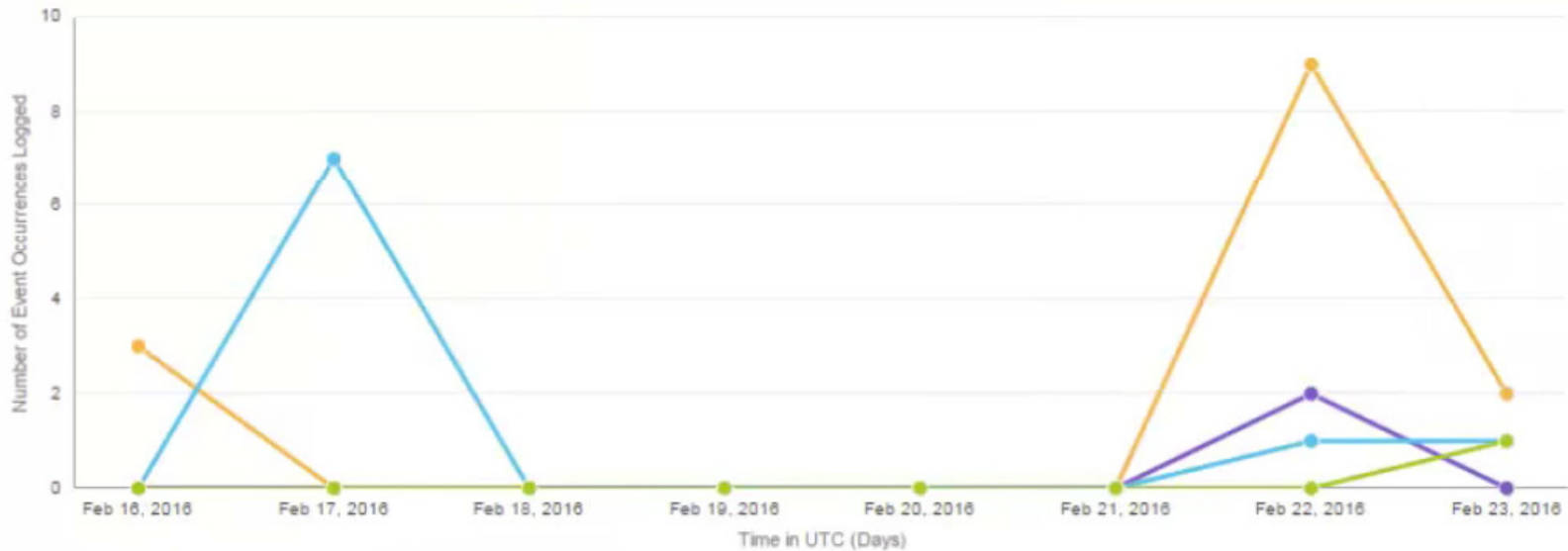
MTA | Development

CollisionSyncFailed

Facility

1H | 1D | **1W** | 1M | 3M | 1Y | ALL | 02/16/16 | 02/23/16

Filters +



- Marine Parkway-Gil Hodges Memorial Bridge
- Bronx-Whitestone Tunnel
- Henry Hudson Bridge
- Cross Bay Veterans Memorial Bridge

26

Occurrences

3

Occurrences/Day



CollisionSyncFailed

1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16

Filters +

- Facility
- Select a group by property
- Custom
 - Facility
 - FailureReason
- Location
 - Country
 - State



- Marine Parkway-Gil Hodges Memorial Bridge
- Bronx-Whitestone Tunnel
- Henry Hudson Bridge
- Cross Bay Veterans Memorial Bridge

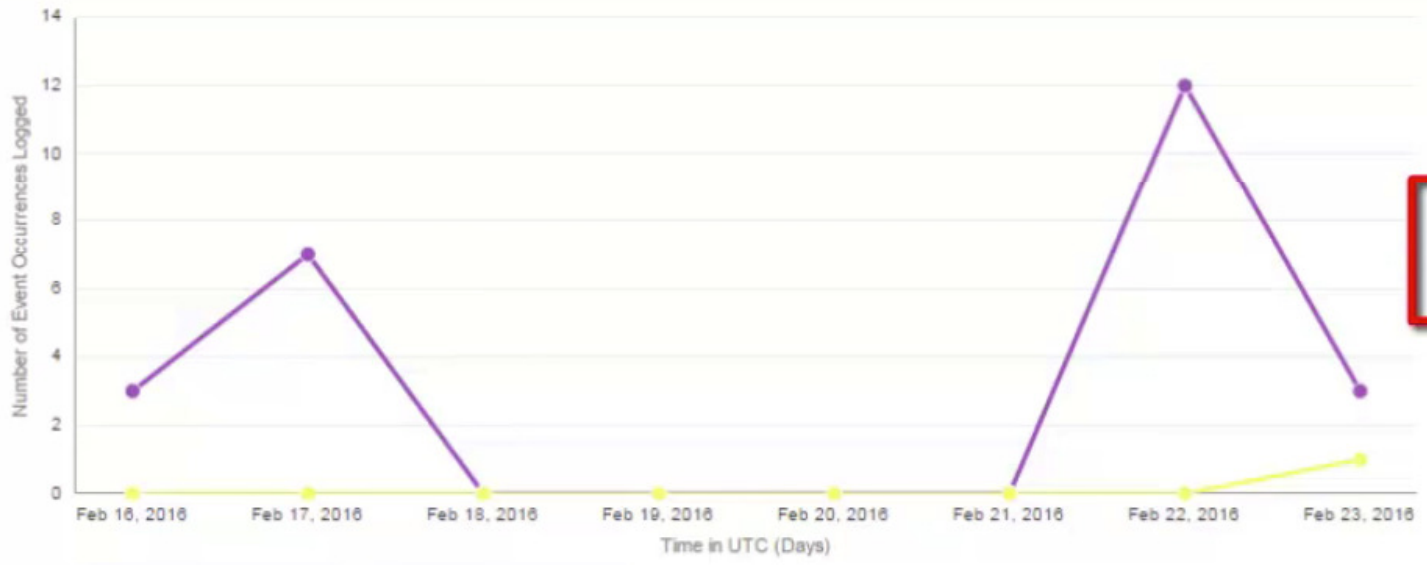
26 Occurrences

3 Occurrences/Day



CollisionSyncFailed FailureReason 1H 1D 1W 1M 3M 1Y ALL 02/16/16 02/23/16

Filters +



Please enter a Plaza Lane;
Timeout received while running Macro: AP_createCollisionRep...

26 Occurrences

3 Occurrences/Day



Summary

For More Information



cloud.oracle.com/mobile

Integrated Cloud

Applications & Platform Services