

Gain an intelligent edge in Enterprise IT and software development







4-6 JUNE, 2019 | WARSAW







AUGUST 13-14, 2019 | SYDNEY







AUGUST 20-21, 2019 | SINGAPORE







OCTOBER 1-2, 2019 | **LAS VEGAS** 

## **SAVE THE DATES**

### **DEV**TALK:

Securely Synchronize Locally Stored Data with Zebra and Couchbase

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SW Architect, Zebra

## **Hod Greeley**

Developer Advocate, Couchbase

## Agenda

- Introduction: Zebra Technologies & Couchbase
- Zebra DataWedge Overview
- Couchbase Lite Overview
- Demo: Sample app
- Wrap-up

## Zebra Technologies

Zebra gives 95% of Fortune 500 companies real-time visibility into their operations through rugged enterprise devices, printers & scanners as well as provide cloud services & connected solutions











## Zebra Technologies









**Simplify Operations** 

**Empower Mobile Workers** 

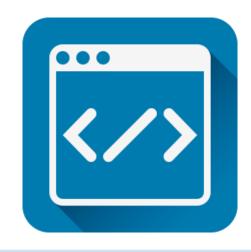
**Know More About Your Business and Customers** 

## Zebra Developer Tools for Mobile Devices



#### **DataWedge**

System service to capture data for app consumption Exposes Intent API Very flexible approach



#### **Enterprise Browser**

Wraps system webview component for lockdown and config.
Exposes JS API
Hybrid development only



#### **EMDK**

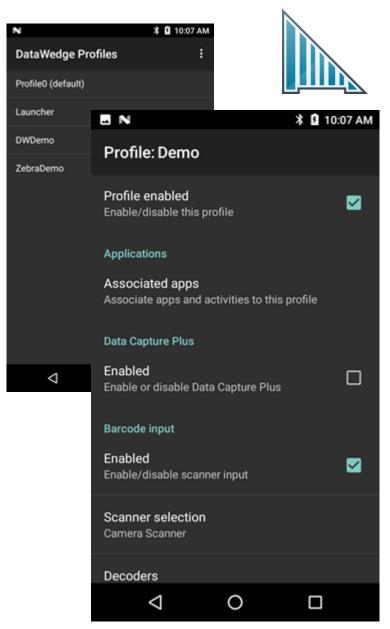
Android or Xamarin
variants
Native SDK
Native development
only

## Zebra DataWedge

## Adding scanning to your app

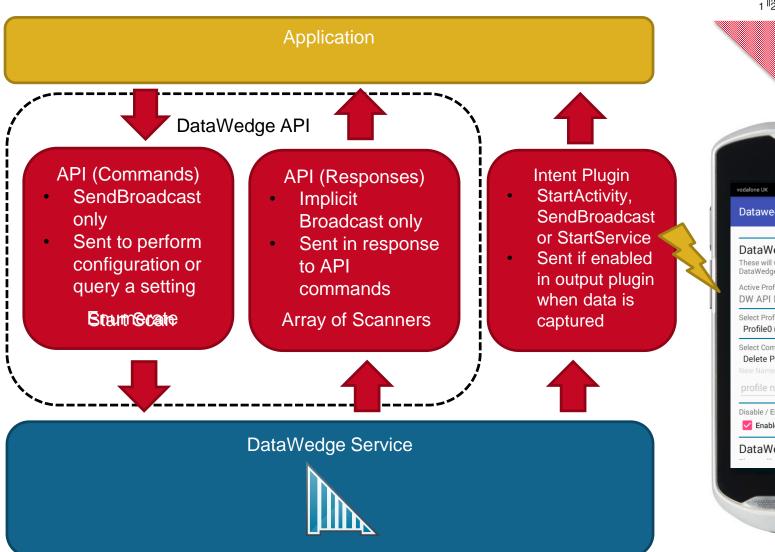
## **DataWedge**

- Profile based configuration of data capture
  - Define input: e.g. Scanner
  - Configure input: e.g. Symbologies, scanner sounds, code lengths etc.
  - Define output: e.g. Intents, Keystroke
  - Configure output: e.g. Intent action
  - Associate the profile with an application or activit(y/ies)
- Control / configure DataWedge via Intent API
  - Feature rich API
  - Capabilities on par with native SDK
- Import / export profiles for mass deployment
  - "If you haven't taken a look at DataWedge since 2016, please take another look"

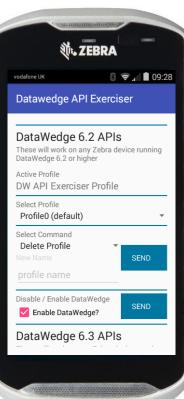


#### Adding scanning to your app

#### **DataWedge – How it works**







## 500+ Digital Businesses Run on Couchbase





6 of the Top 10 E-Commerce Companies in the US



The top 3
GDS Companies

3 of the Top 10
Airlines



6 of the Top 10 US & European Broadcast Companies



6 of the Top 10
Online Casino Gaming
Companies



The Top 3
Credit Reporting Companies

## Customers Across Every Industry Embracing Couchbase









































**Travel** 

**Marriott** 

amadeus

Sabre

**CRBITZ** 

on tripadvisor

**Caskyscanner** 











































































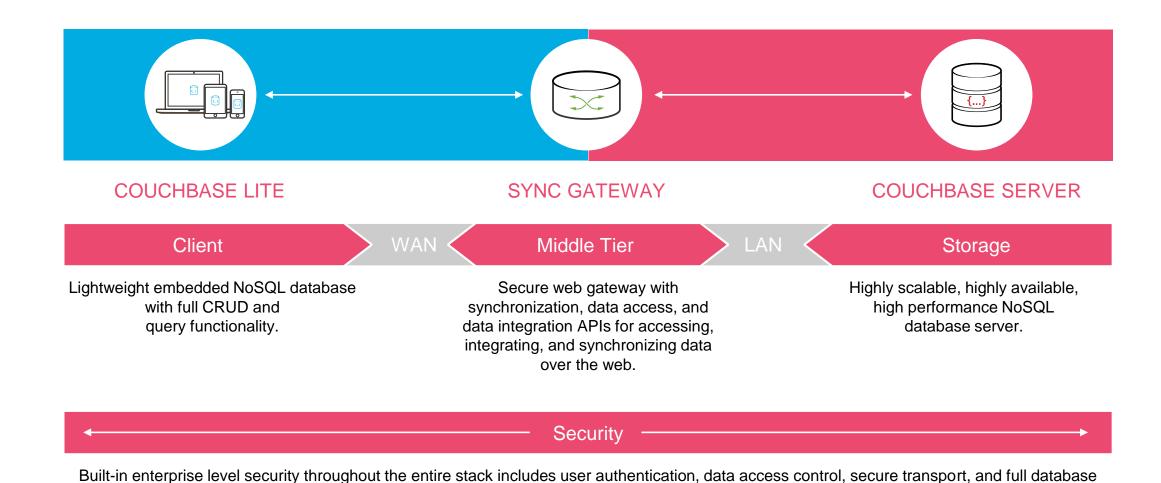






## Couchbase Mobile





encryption.

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## Couchbase Lite 2.1 Features





## Couchbase Lite

**Embedded Database** 









- CRUD
- Query
- Search
- Indexing

- Eventing
- Replicas
- Sync
- Security
- Peer-to-Peer





# Query & Full Text Search

- Development experience like general queries
- Smarter mobile apps using search queries
- Optimized search with improved performance & latency

SELECT \*
FROM catalog
WHERE description MATCH 'springtime'
AND size = 7
AND color = 'orange'
ORDER BY name



```
Query query = QueryBuilder
.select()
.from(DataSource.database(db))
.where(Expression.property("type").equalTo(Expression.string("catalog"))
.and(FullTextExpression.index("description").match("springtime"))
.and(Expression.property("size").equalTo(Expression.intValue(7))
.and(Expression.property("color")).equalTo(Expression.string("orange")))
.orderBy(Ordering.expression(Expression.property("name")));
```

Objective-C

SQL

Java

# Sample Application

## DataWedge

#### Resources

- Sample apps on techdocs:
  - API Sample
  - Demo App (Pre-installed)
  - More coming soon…
- Tutorials:
  - DataWedge Intent Example (Android)
  - DataWedge Intent Example (Xamarin)
- API
  - Full listing
  - Overview article
    - Needs updating the challenges highlighted in that article have been now been addressed
- Other articles:
  - <u>DataWedge Mass deployment</u>
  - <u>Using DataWedge with Cordova or Cordova-based frameworks</u>
  - Moving from EMDK Data Capture profiles to DataWedge

#### Couchbase



#### Resources

- General Docs: <a href="http://docs.couchbase.com">http://docs.couchbase.com</a>
- Developer Portal: <a href="http://developer.couchbase.com">http://developer.couchbase.com</a>
- Query Portal: <a href="http://query.couchbase.com">http://query.couchbase.com</a>
- Sample Applications and Community Projects
  - https://github.com/couchbaselabs
- Demonstration project: <a href="https://github.com/HodGreeley/Zebra-Inventory">https://github.com/HodGreeley/Zebra-Inventory</a>
- Blog: <a href="http://blog.couchbase.com">http://blog.couchbase.com</a>
- Forum: <a href="http://forums.couchbase.com">http://forums.couchbase.com</a>

# Questions?

## ZEBRA DEVELOPER PORTAL

http://developer.zebra.com

Sign up for news

Join the ISV program

## **COUCHBASE**

https://developer.couchbase.com

https://info.couchbase.com/Community-Newsletter-Signup.html