

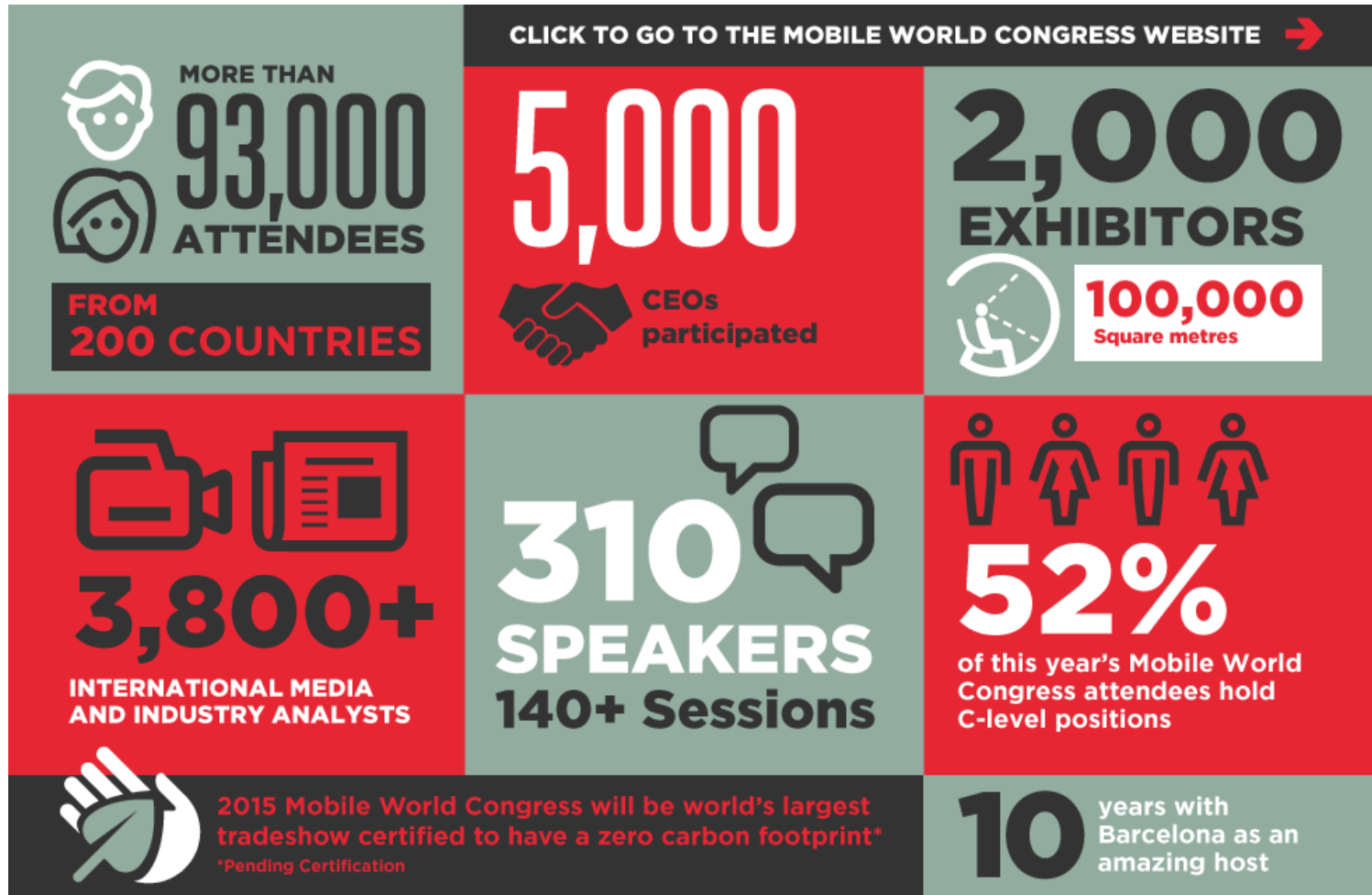
# Mobile Conference Barcelona

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Product Manager  
May 22, 2015

**UNIFACE**  
Advanced Development Technology



# Mobile World Congress 2015



# Uniface @ Barcelona



# Design Your Mobile Enterprise



# As so it went on (4 Days)



# Pleased to go home



# What is Uniface

- Development environment
  - Model driven
  - Component based
- Deployment platform
  - Multiple databases
  - Cross platform
  - Application partitioning



# Components

- Paint
  - Modelled Entities
  - Modelled Fields
  - Component Entities
  - Component Fields
- Query by form



# Uniface Scripting

- Simple
- Data oriented
- Abstracted from implementation
- retrieve
- store
- activate

```
1 operation exec
2 ; Your VARIABLES block here (optional)...
3
4 variables
5 numeric vID
6 struct vStruct
7 string vXML
8 endVariables
9 ; Get the Verb the service was called with
10 ; $webinfo("OUTPUT") = $item("REQUEST_METHOD", $item("SERVERVARIABLES", $webinfo("WEBSERVERCONTEXT")))
11
12 vID = $webinfo("PATHINPUT")
13 if (vID != "")
14     CUSTOMERID.CUSTOMER/init = vID
15 endif
16 retrieve
17 if ( $status < 0 )
18     $webinfo("status")="404"
19     $webinfo("statusreason")="Not Found"
20     $webinfo("output")="<html><title>404 - Not Found</title>%\
21     <body><h1>404- Unable to find resource</h1></body></html>"
22     return 0
23 endif
24 componenttostruct vStruct
25
26 selectcase $uppercase($item("format", $webinfo("INPUT")))
27     case "XML"
28         structtoxml($webinfo("OUTPUT"), vStruct)
29         putitem/id $webinfo("httpresponseheaders"), "Content-Type", "text/xml;charset=UTF-8"
30
31     elseif ; Default = json
32         structtojson/whitespace($webinfo("OUTPUT"), vStruct)
33         putitem/id $webinfo("httpresponseheaders"), "Content-Type", "text/json;charset=UTF-8"
34     endselectcase
35
36 return 0
37
38 end
```

# DSPs

- Disconnected
- Automatic transfer of data
  - Single or multiple components
  - Complex data structures
  - Scoping/Blocking
- Pages built from data, definitions and HTML layout
- Events
  - Client JavaScript
  - Server Uniface Script
  - Context synchronised between client and server

# Insurance Demo

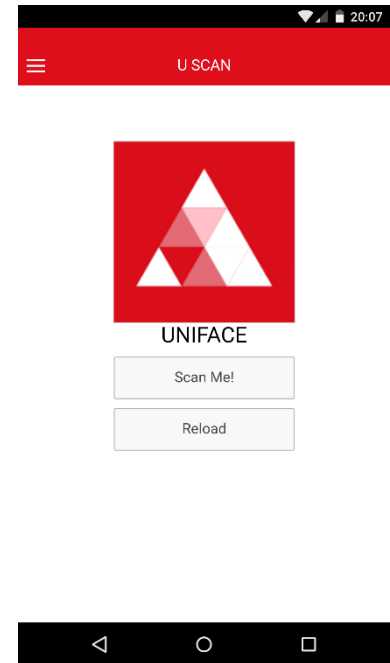
- Native look and feel
  - Android
  - iOS
- Repeatable
- Uses phone functionality
  - Camera
  - Contacts
- Multiple concurrent demos
  - Connect phone to a “demo station”
- Simple to understand

Demo

**LET ME SHOW YOU**

# Uniface Mobile

- Based on DSP and web technologies
- Wrapped by native shell
- Exposing device APIs in JavaScript
  - Contacts
  - Camera
  - Barcode
  - Others
- **Scanner App**
  - Will be submitted to stores
    - Apple
    - Google
    - Microsoft



# Integration for mobile

- Server - REST Services
  - \$webinfo("PATHINPUT")
  - Semantic URL for REST
- Client JavaScript API
  - JavaScript promises
  - Combine and minify uniface.js
    - Include <script> tag and use JavaScript API
  - Typed data in JSON

# GUI

- Classes
  - Add/Remove a single class
  - Merge classes
  - Default Uniface classes
  - Include <script> tag and use JavaScript API
- HTML attributes
  - Type = date
- Set properties on Entity and Occurrence
- \$instanceLayout
- Bound header and footer

# Product Enhancements

- Development Environment
  - Generate QR Code
  - Define App properties
- Build Environment
- Testing

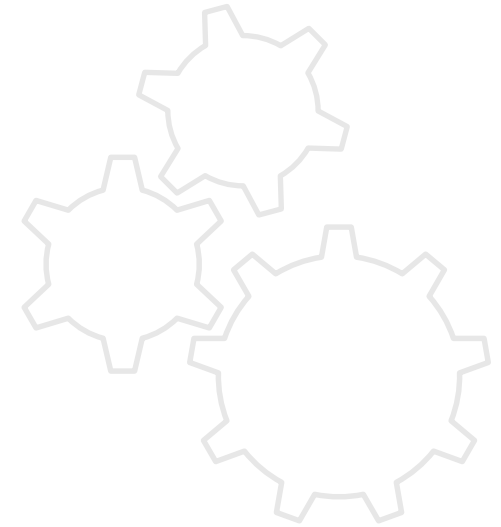


Demo

**LET ME SHOW YOU**

# Work In-Progress

- Build Environments
- Responsive screen design
- Standard HTML Widgets
- Resources compiled into App
- Fragmentation protection
- Improved testing framework
- INOUT params for promises
- API for field labels



- ✓ Successful exhibition
- ✓ Feedback very positive
- ✓ Continuing to grow our mobile solution

**Thank You!**

Q&A

**UNIFACE**  
User Events