



# Making The Future Java

Dalibor Topić (@robilad)  
Principal Product Manager  
October 18th, 2013 - HrOUG, Rovinj

A background image for an Oracle advertisement. It features a man in a white jacket and maroon shirt looking upwards and to the right. The background is composed of overlapping geometric shapes in shades of blue and orange. The text "MAKE THE FUTURE JAVA" is written in a light gray, sans-serif font, with the letters 'I', 'U', and 'J' in orange. The Oracle logo is visible in the bottom right corner.

MAKE THE  
FUTURE  
JAVA

ORACLE®

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.

# JavaOne 2013

By Developers, For Developers



5 Days

400+ Sessions

More Community Activities

# Progress

## Community

### OpenJDK

- New public bug system
- Infrastructure updates
- 114 new contributors

### JCP

- JCP.next progress
- 20+ JUGs participating in Adopt-a-JSR program
- 14 JSRs finalized since last year

### Java User Groups

- Increase in JUGs (growth from 197 to 228)
- Greater JUG interaction
- Piloting coding challenges

## Technology

### Java SE

- 50+ Security Enhancements, 7 JRE 7 Updates
- JDK 8 Dev Preview Available

### JavaFX

- All code is open sourced as part of OpenJFX
- Released Scene Builder 1.1

### Java Embedded

- Java ME 3.3 client runtimes available
- ARM 32-bit HardFP ABI support

### Java EE

- Launched Java EE 7, Glassfish 4.0
- 4 new JSRs

## Oracle Stewardship

### Outreach

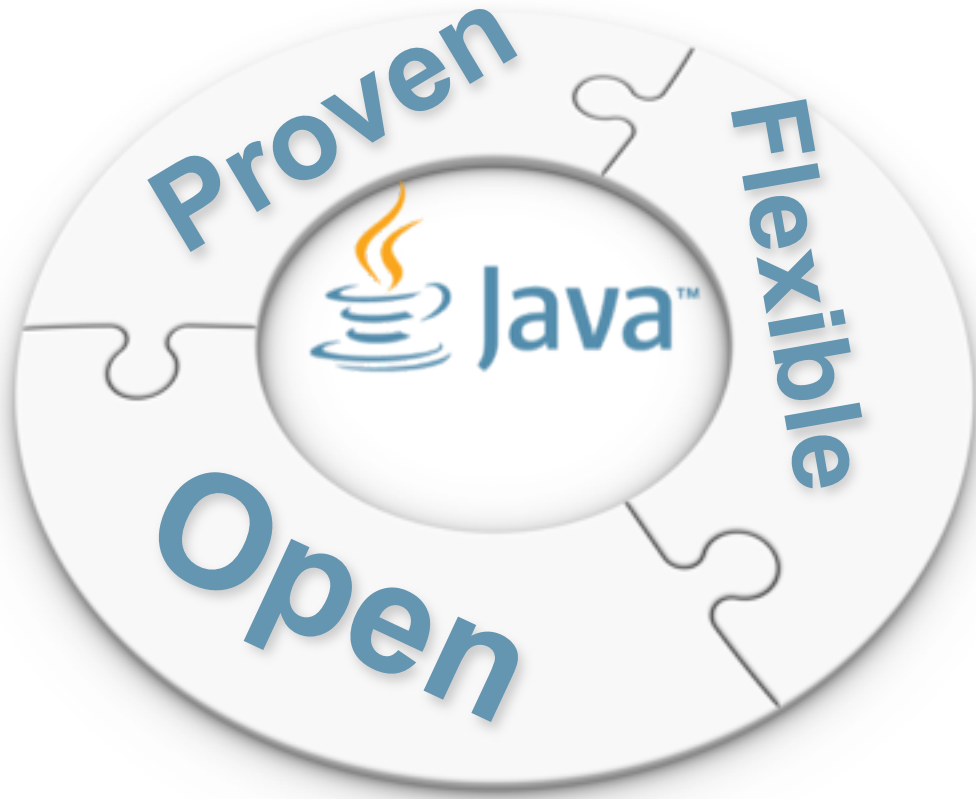
- 4 regional JavaOne events with over 5,000 attendees
- Over 1M touch points reached through Java Evangelism activities

### Oracle Technology Network

- Over 150K subscribers to *Java Magazine*
- Over 100K @java followers on Twitter

### Java.net

- Over 852,512 members
- Over 2,300 public projects



9 Million+ Java developers worldwide

#1 Choice for developers

#1 Development platform

5 of Top 5 OEMs ship Java ME

3 Billion mobile phones run Java

100% of Blu-Ray players ship with Java

97% of enterprise desktops run Java

89% of desktops in USA run Java

5 Billion Java Cards in use

125 Million TV devices run Java

# MAKE THE FUTURE JAVA



ORACLE®



60  
sec



347 new posts



11,000 active users



72 hours of video uploaded



204 million messages sent



11,000 professional searches



278,000 tweets

facebook

41,000 searches



104,000 photos shared

snapchat



20 million photos viewed

Source: Go-Gulf.com

7 | Copyright © 2013, Oracle and/or its affiliates. All rights reserved. |



1 Exabyte = 3,600 years worth of HD-TV video

2011 1,500 EB



2013

3,500 EB



Volume

Variety

Velocity



2015

8,000 EB



Source: Cisco

Copyright © 2013, Oracle and/or its affiliates. All rights reserved. |





World Population

6.3 Billion      6.8 Billion      7.2 Billion      7.6 Billion

Connected Devices

500 Million      12.5 Billion      25 Billion      50 Billion

Connected Devices per Person

0.08      1.84      3.47      6.58

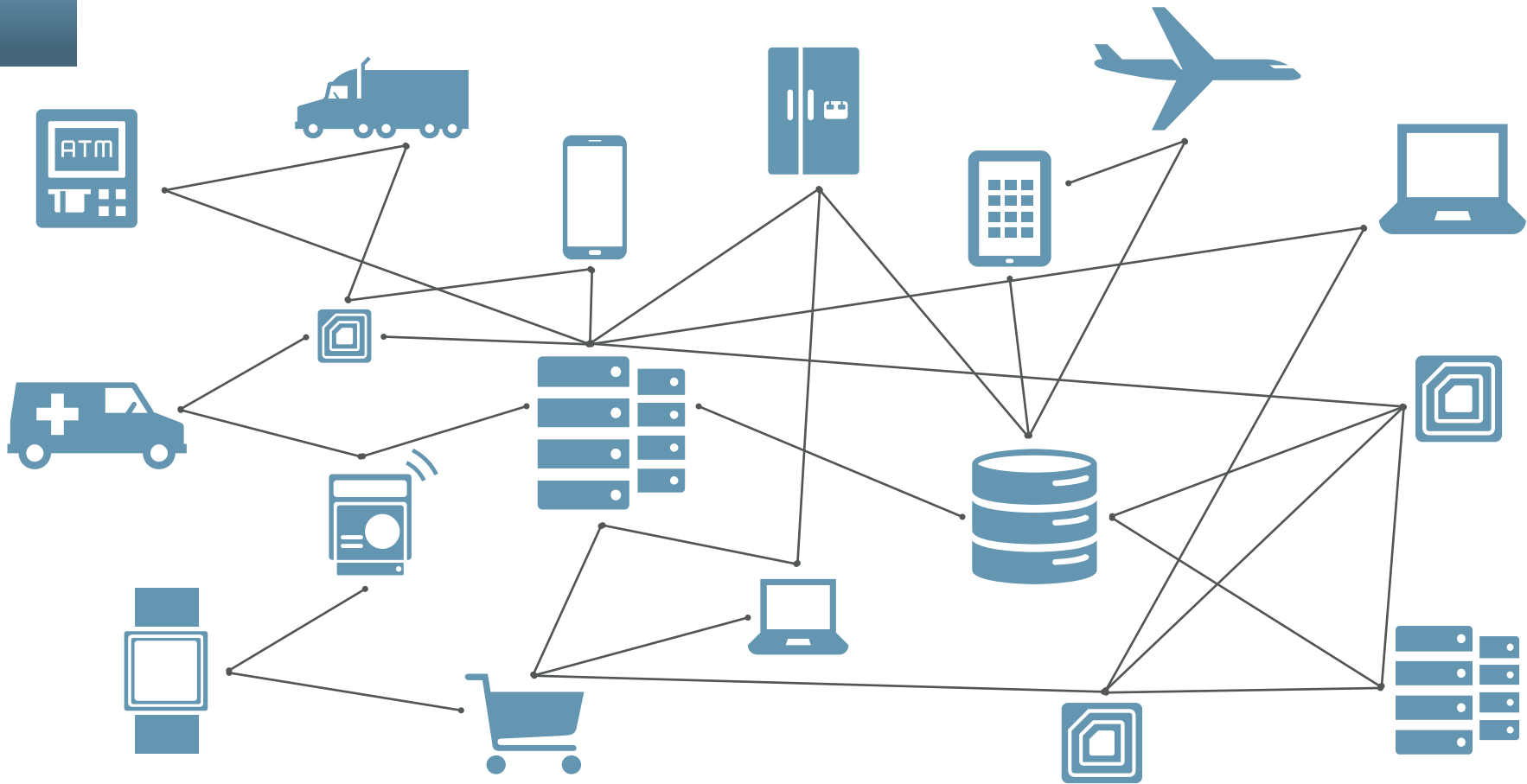
2008      2010      2015      2020



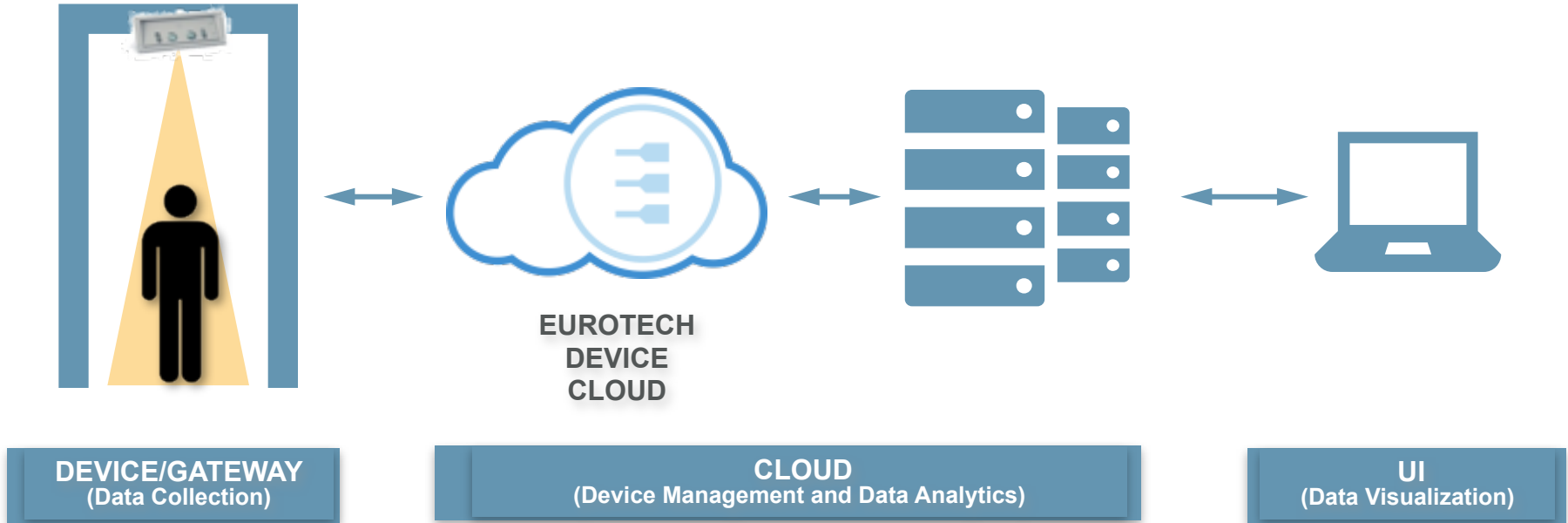
Source: Cisco

Copyright © 2013, Oracle and/or its affiliates. All rights reserved. |





# Architecture

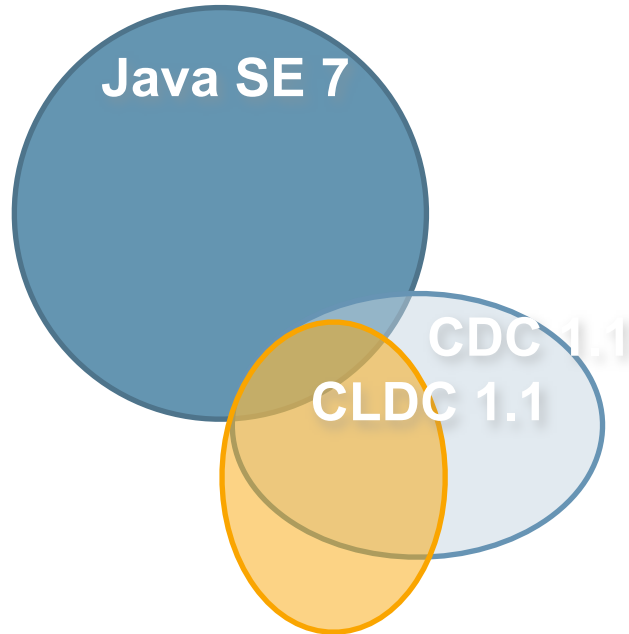




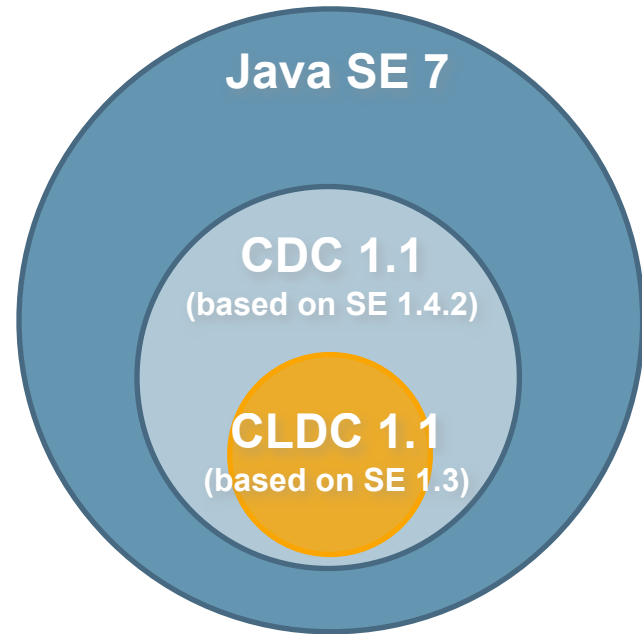


# Today

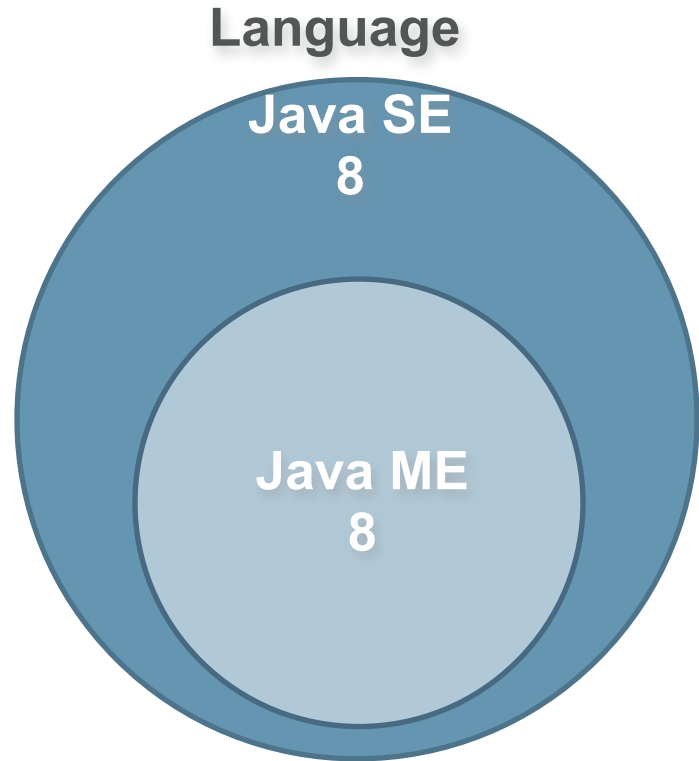
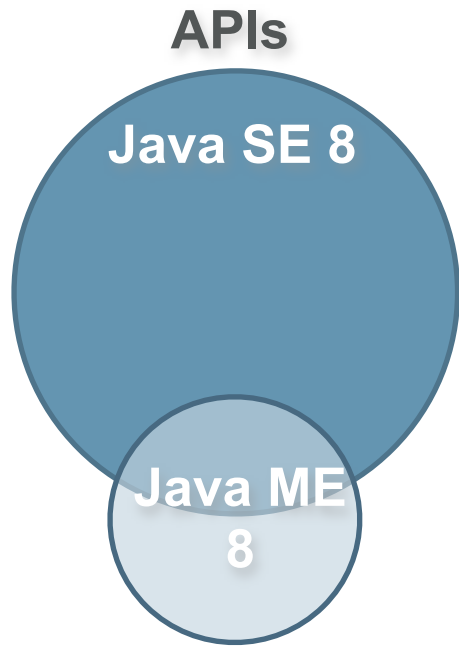
## APIs



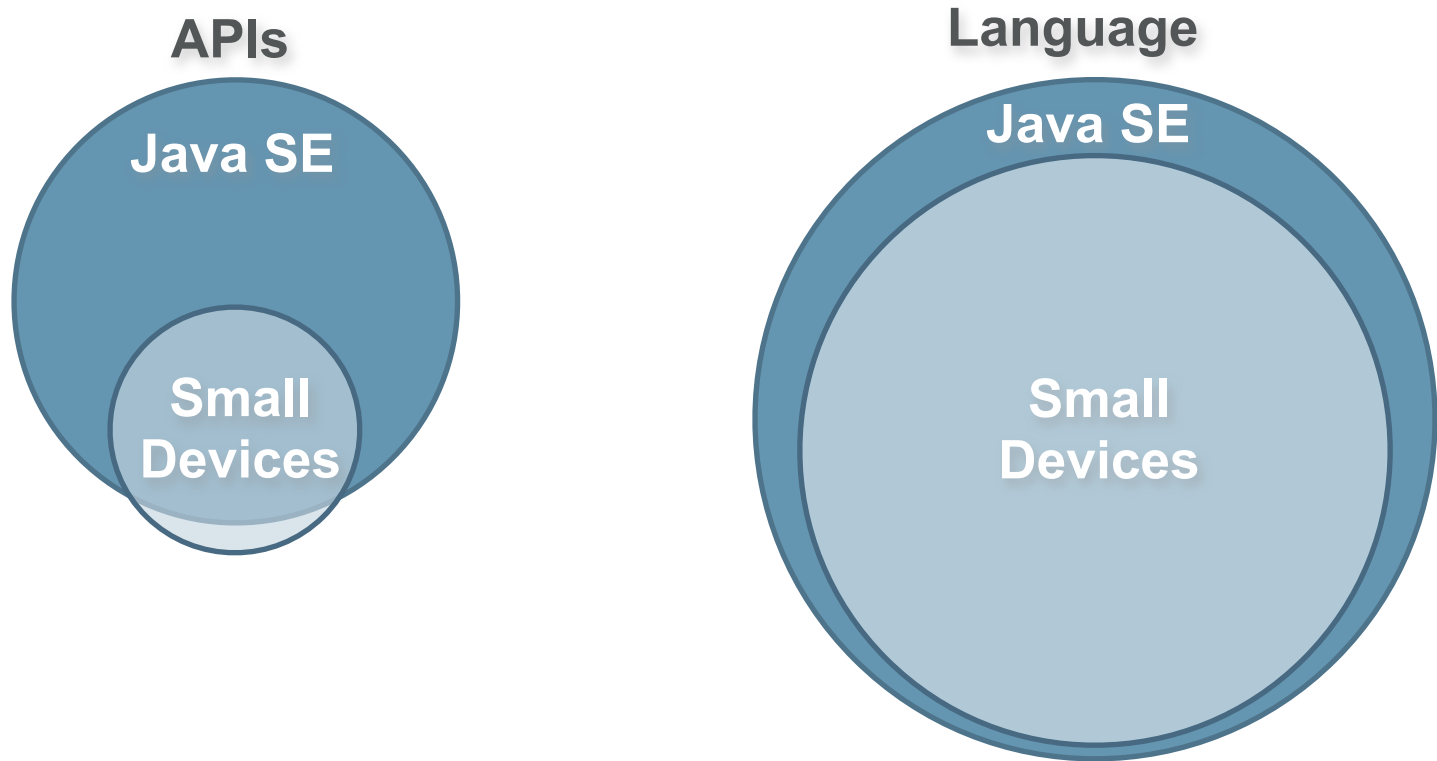
## Language



# Java 8



# Beyond Java 8







ARM™



freescale™



QUALCOMM™

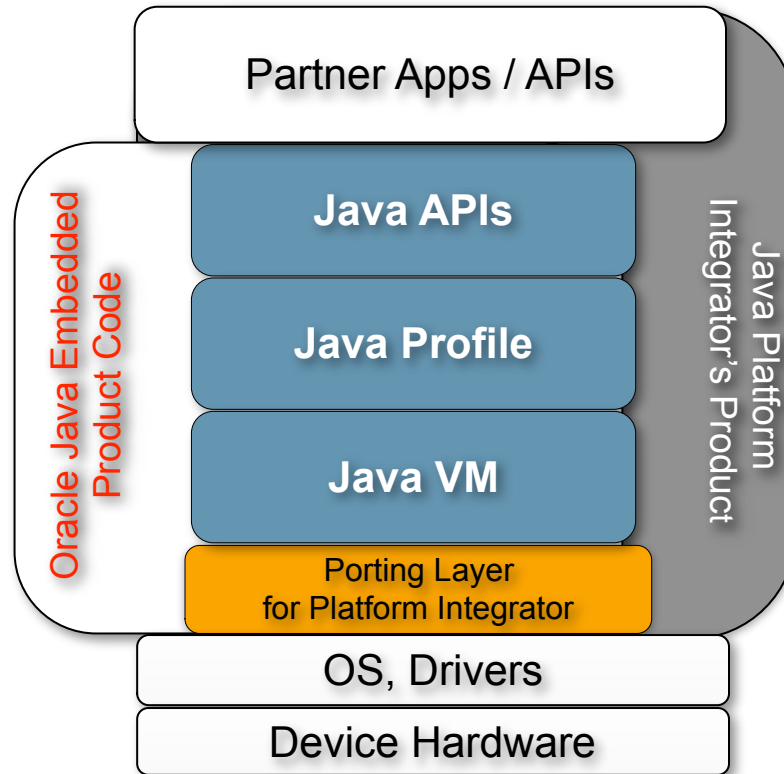


gemalto  
security to be free



ST

# Oracle Java Platform Integrator Program



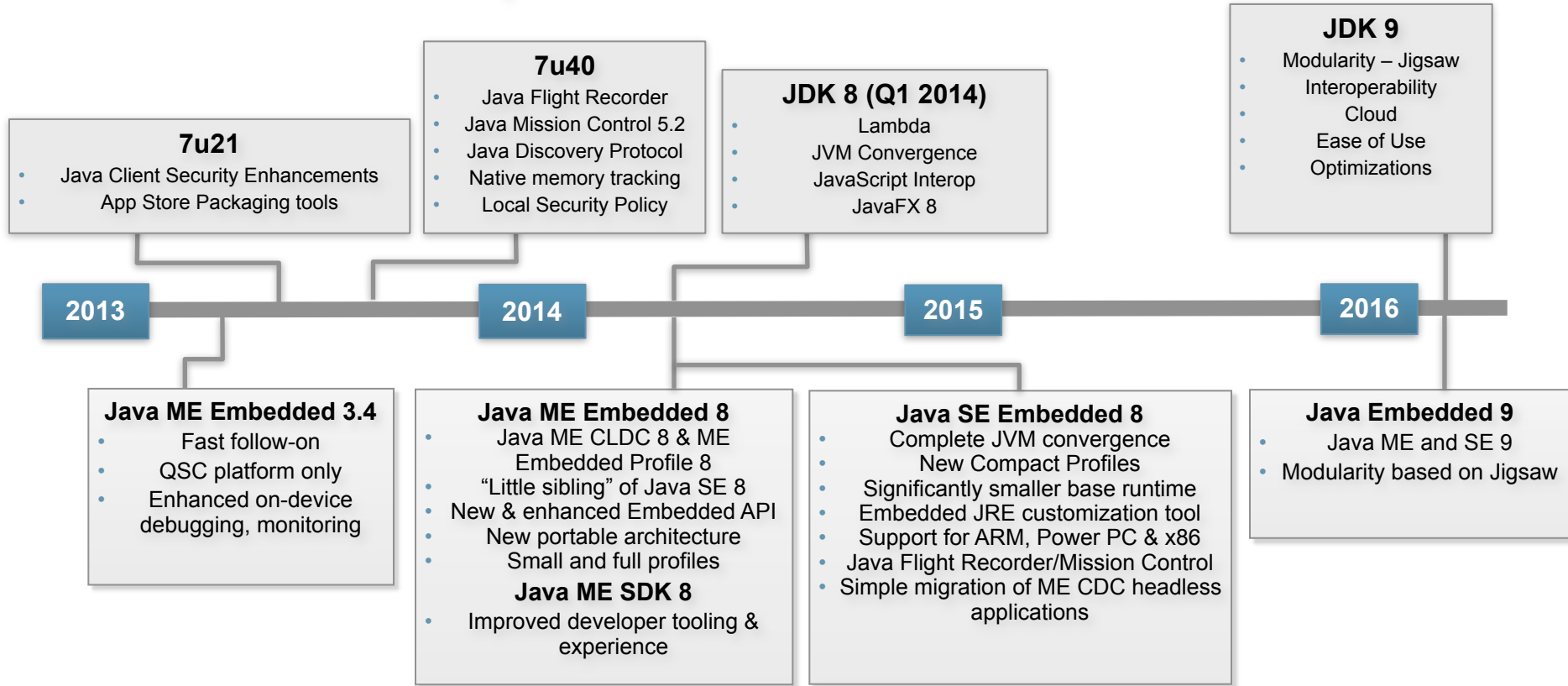
## Java 8 Features

- Lambda -- JSR 335
- Date & Time API -- JSR 310
- Nashorn JavaScript Engine
- Compact Profiles
- Security Enhancements

## Beyond Java 8

- Modular Platform (Jigsaw)
- Unified Type System
- Language Interoperability
- Memory-efficient data structures
- Java on GPUs (Sumatra)

# Java Roadmap





# TEST PREVIEW

Java SE 8 EA

Java ME 8 EA

<http://JDK8.java.net>



# Now Available

## Java Platform, Enterprise Edition 7

*The standard in community-driven enterprise software*

# Java EE 7 Technical Foundation



- More annotated POJOs
- Less boilerplate code
- Cohesive integrated platform

- WebSockets
- JSON
- Servlet 3.1 NIO
- REST

- Batch
- Concurrency
- Simplified JMS

# Powering Java Standards in the Cloud

## Deliver More Apps to More Devices with Confidence



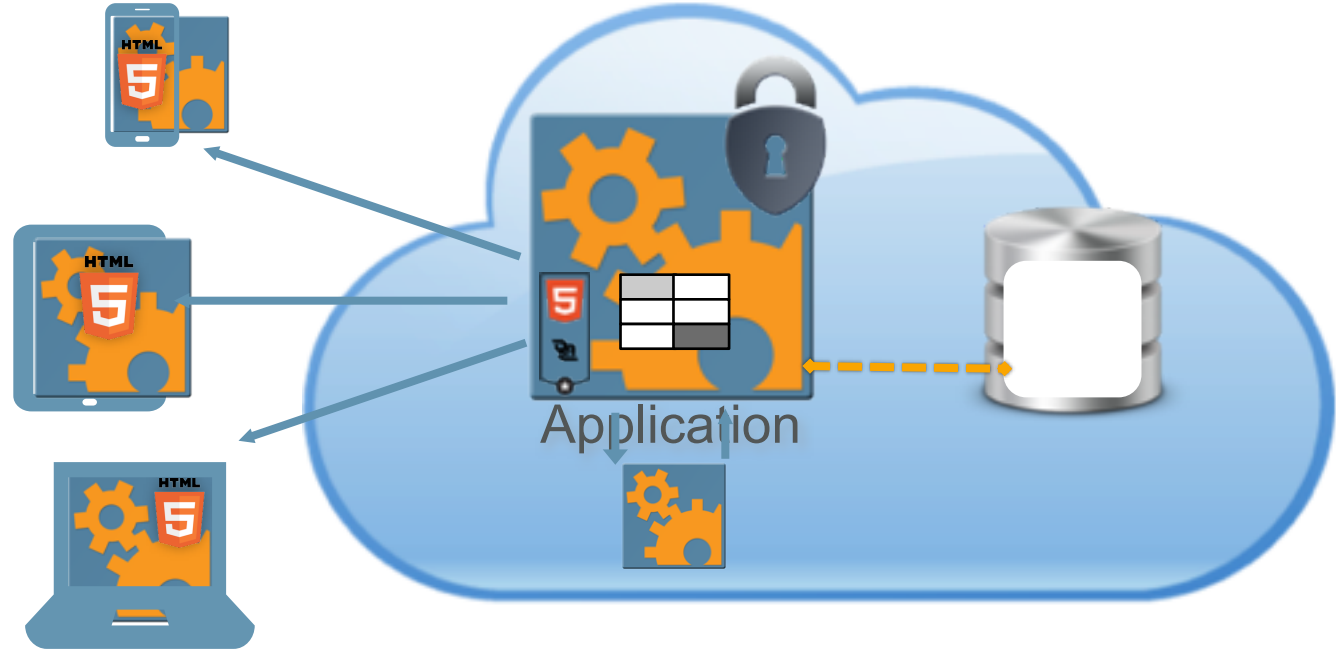
Container-based Security

Default Resources

Schema Generation

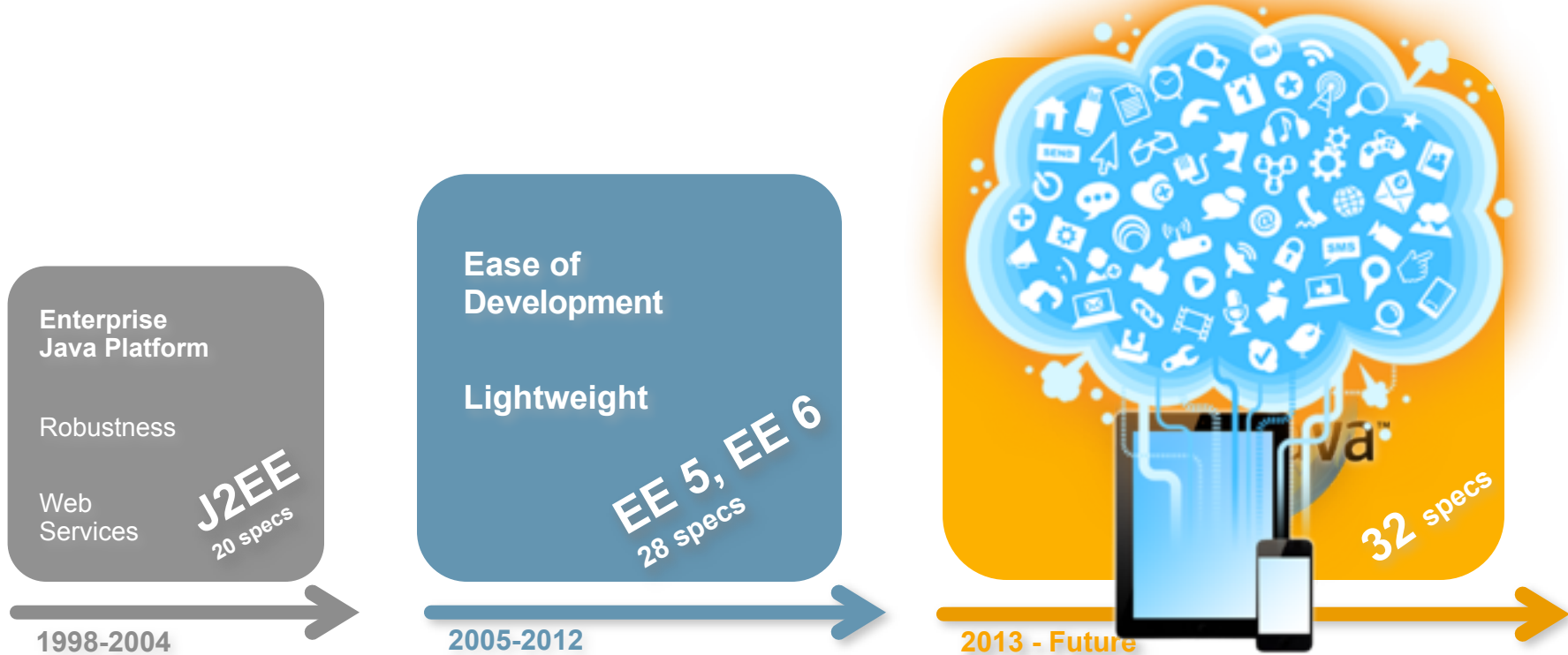
Client API for RESTful Services

Faces Flow & Resource Templating





# Java EE: Positioning for the Future



# The Future of Java EE

GET INVOLVED!

NoSQL  
Cloud



Enhanced HTML5



# DOWNLOAD

## Java EE 7 SDK

[oracle.com/javaee](http://oracle.com/javaee)

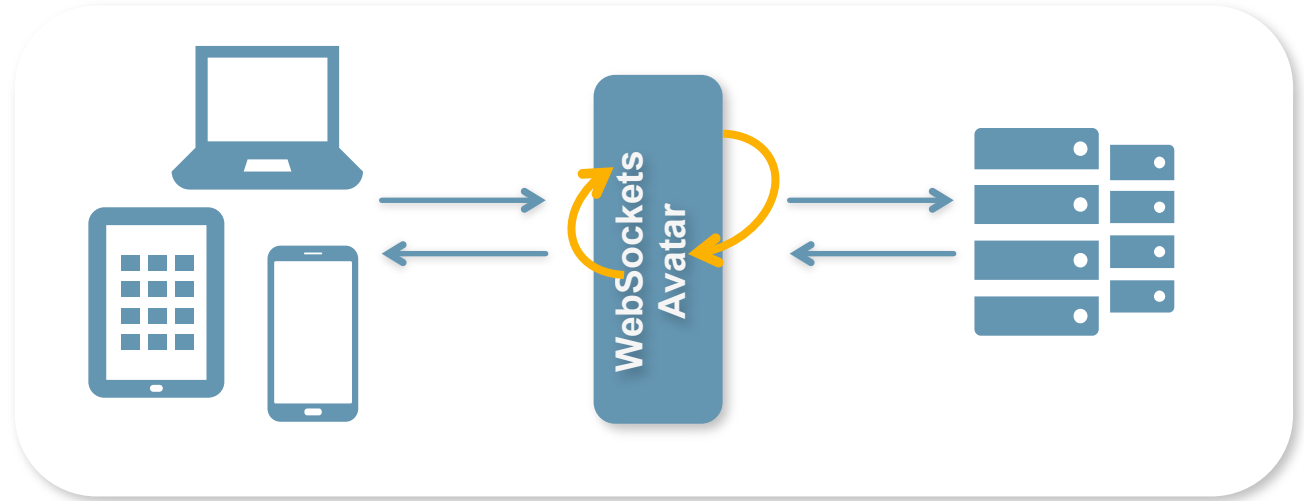
## GlassFish 4.0

Full Platform or Web Profile

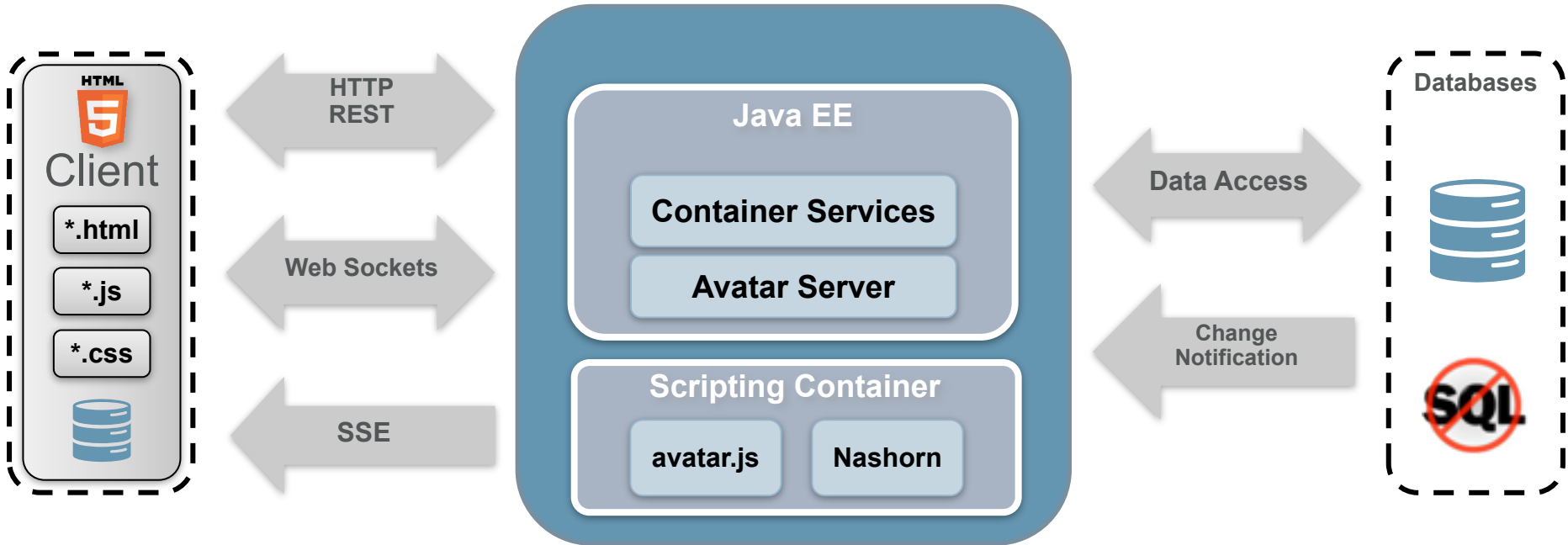
[glassfish.org](http://glassfish.org)

# Java EE for Next Generation Applications

## Deliver HTML5 Dynamic, Scalable Apps



# Project Avatar





# Open Sourcing

Project Avatar

[avatar.java.net](http://avatar.java.net)

Download and try now!

Get involved!

# For More Information

Java		
 <b>Twitter</b> @JavaEmbedded		@Java,
 <b>Facebook</b> likejava		facebook.com/
 <b>Oracle Java blog</b> java		blogs.oracle.com/
 <b>Oracle Java Web site</b>		oracle.com/java
 <b>Oracle Internet of Things</b>		oracle.com/m2m

