

# ORACLE®

### **Java ME Platform Evolution**

September 13, 2011 JCP Confidential

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## Java ME 7 Platform: Design Objectives

# **Enrich the Java ME content Ecosystem Prepare for New Frontiers in Embedded Markets**

- Synchronize SE and ME heartbeats
- Renovate MSA to enable delivery of smart-phone experience on feature-phones
- Define new APIs targeting better user experience & services on mass market mobile phones
- Expand Java ME to become the leading services & application platform for billions of connected embedded devices

## **ME 7 Core Components**

APIs & platform facilities for mobile phones, small embedded devices and information modules

- CLDC 7
  - New Java VM alignment with latest Java SE
- MIDP 7
  - Core platform spec. targeting to address both mobile and small embedded device
- ME 7 JSRs
  - Defining / Adapting API behavior for specific device functionality

Umbrella JSR specifying the default APIs for each device category

- MSA
  - Umbrella JSR specifying default APIs for mobile devices
- ESA
  - Umbrella JSR specifying default APIs for small embedded device

TBD: ESA may be a separate JSR or part of MSA.

## **CLDC** Highlights

- Synchronize with the Java SE 5/6/7 language features
- Easier memory management; using Reference Queue for garbage collection
- Simplify and Optimize native library integration by introducing optimized NIO buffers implementation
- Use the latest JDK for application development
- Target limited footprint increase to meet strict requirements of mobile and embedded markets

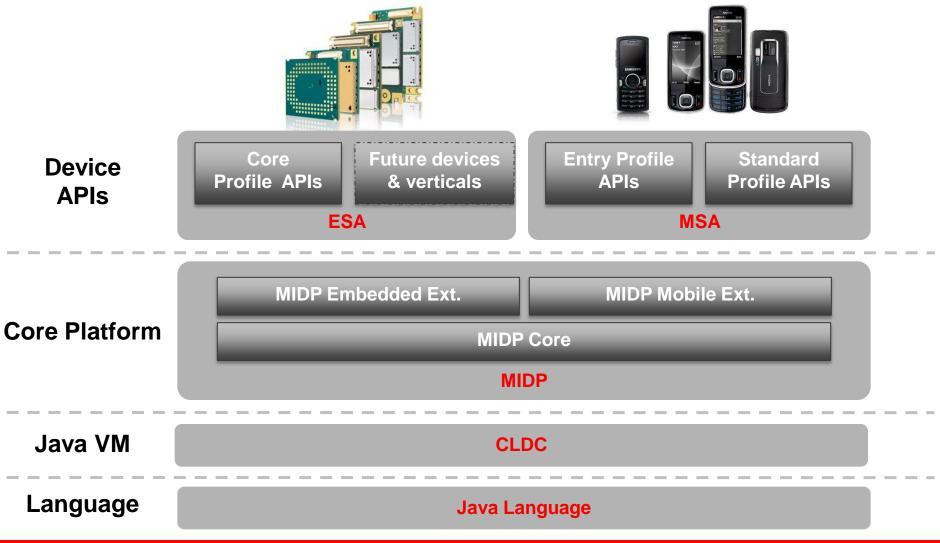
## Java ME 7 JSRs (New / Updates)

#### **Initial Proposal**

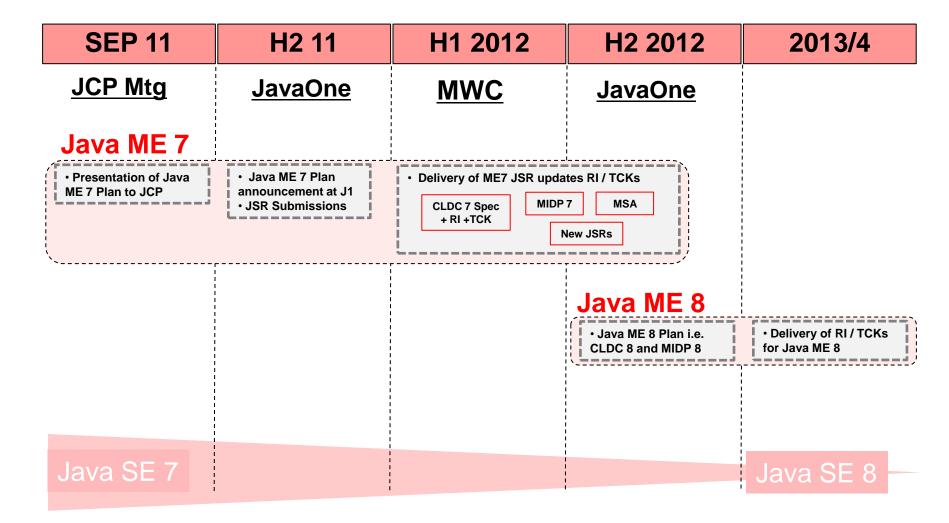
JSR	Justification
CLDC	Base set of APIs and VM for resource-constrained devices
MIDP	Core ME platform specification target to address both mobile and small embedded device
MSA / ESA	Java architecture definition describing essential components for mobile and small embedded devices.
JSR 266: Unified Message Box	Finishing the JSR process
AMS API	<ul><li>Application and Content Lifecycle</li><li>Runtime Control of Applications</li><li>Content Meta-data management</li></ul>
RESTful API	<ul> <li>Consider the RESTful Web Services adoption to Mobile &amp; easier Social Network APIs access.</li> </ul>

+ Potential Updates to JSR 177, 229, 179, 120, 135, 234, 211

#### **Java ME 7 Platform**



#### **Java ME Platform: Timeline**



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