



for M2M

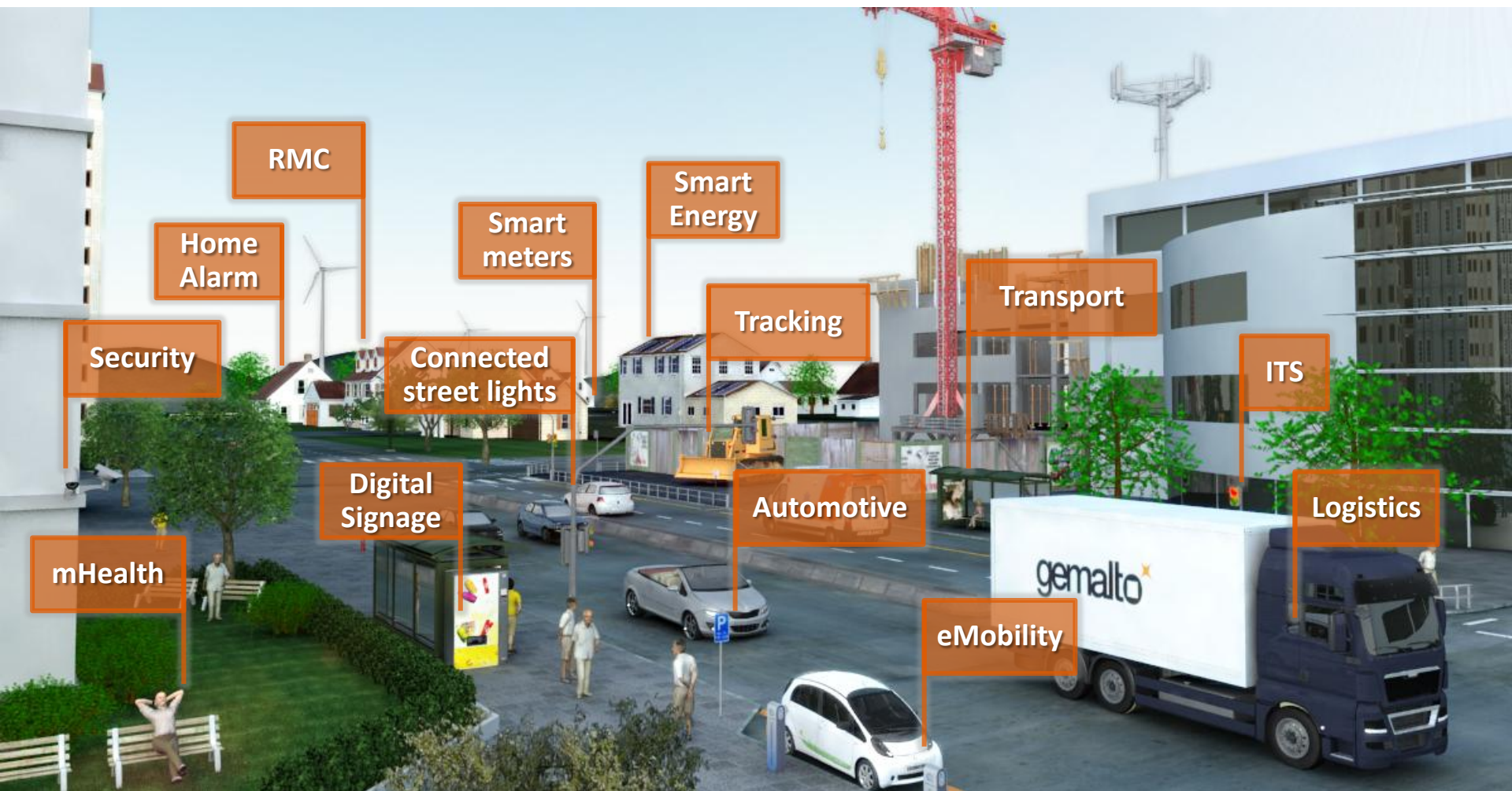


Markus Enck, Technical Consultant Nordics
Mikael Mineur, Sales Distribution Manager Nordics

February 2014

CONFIDENTIAL

Gemalto M2M solutions enable a connected world





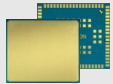
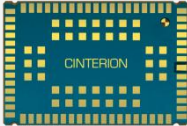
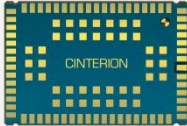
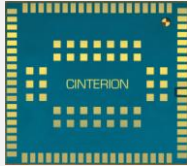
Cinterion® M2M Modules simplify embedding mobile and connecting solutions

- ✓ Cellular connectivity in a compact, easy to integrate **form factor**
- ✓ **Simplifying** the integration of wireless connectivity into devices
- ✓ **Reducing complexity** related to wireless communication like **approvals** and **interoperability**
- ✓ A **rugged design** to address the high **demands of industrial applications**
- ✓ Industry grade modules conform to **highest quality standards** for this industry



Feature scalability allows design to cost

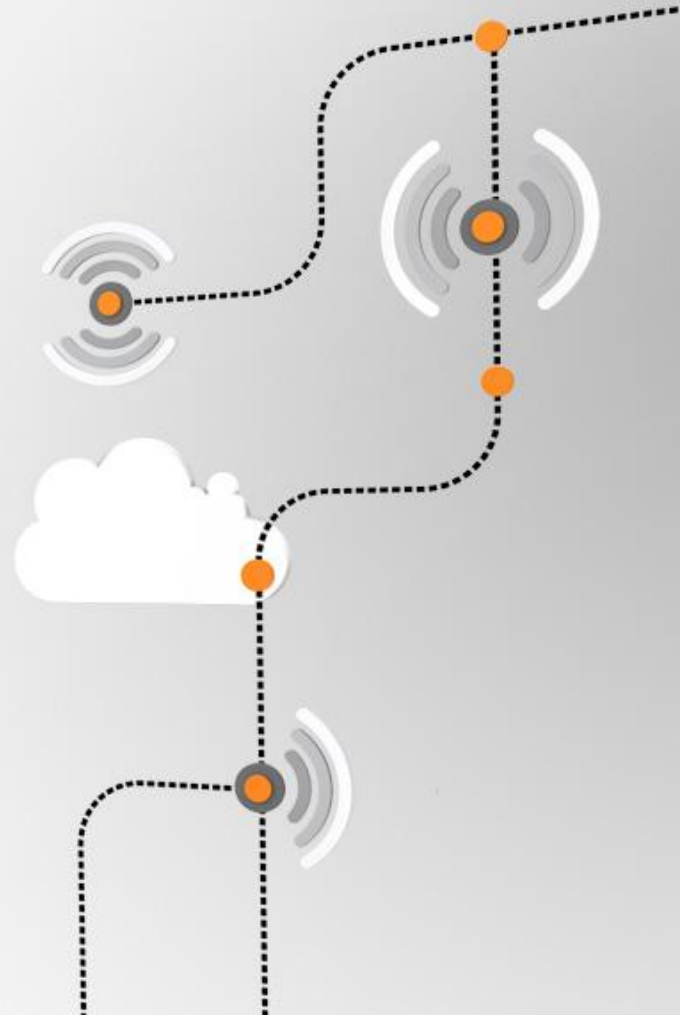
Footprint compatibility enables simple design

	BGS5 	EHS5 	EHS6 
<u>Specification EHS5 / EHS6</u>			
CPU:			
> ARM11@520MHz (~4 times faster than previous generation)			
RAM:			
> 6MB			
Flash File System:			
> 8MB			
	2G + Java	3G Optimized	Global 3G
	Cost and size optimized M2M 2G connectivity	World's smallest 3G SMT module for M2M applications	Global roaming in extended footprint
	> GPRS	> HSPA 7.2M/5.7M	> HSPA 7.2M/5.7M
	> Quad-Band 2G	> Dual-Band 3G (E/US)	> Five Bands 3G
	> Digital Audio	> Digital Audio	> Quad-Band GSM
			> Digital Audio
			> eSE enabled*
			
	27.6 x 18.8 x 2.4 mm	27.6 x 18.8 x 2.4 mm	27.6 x 25.4 x 2.4 mm

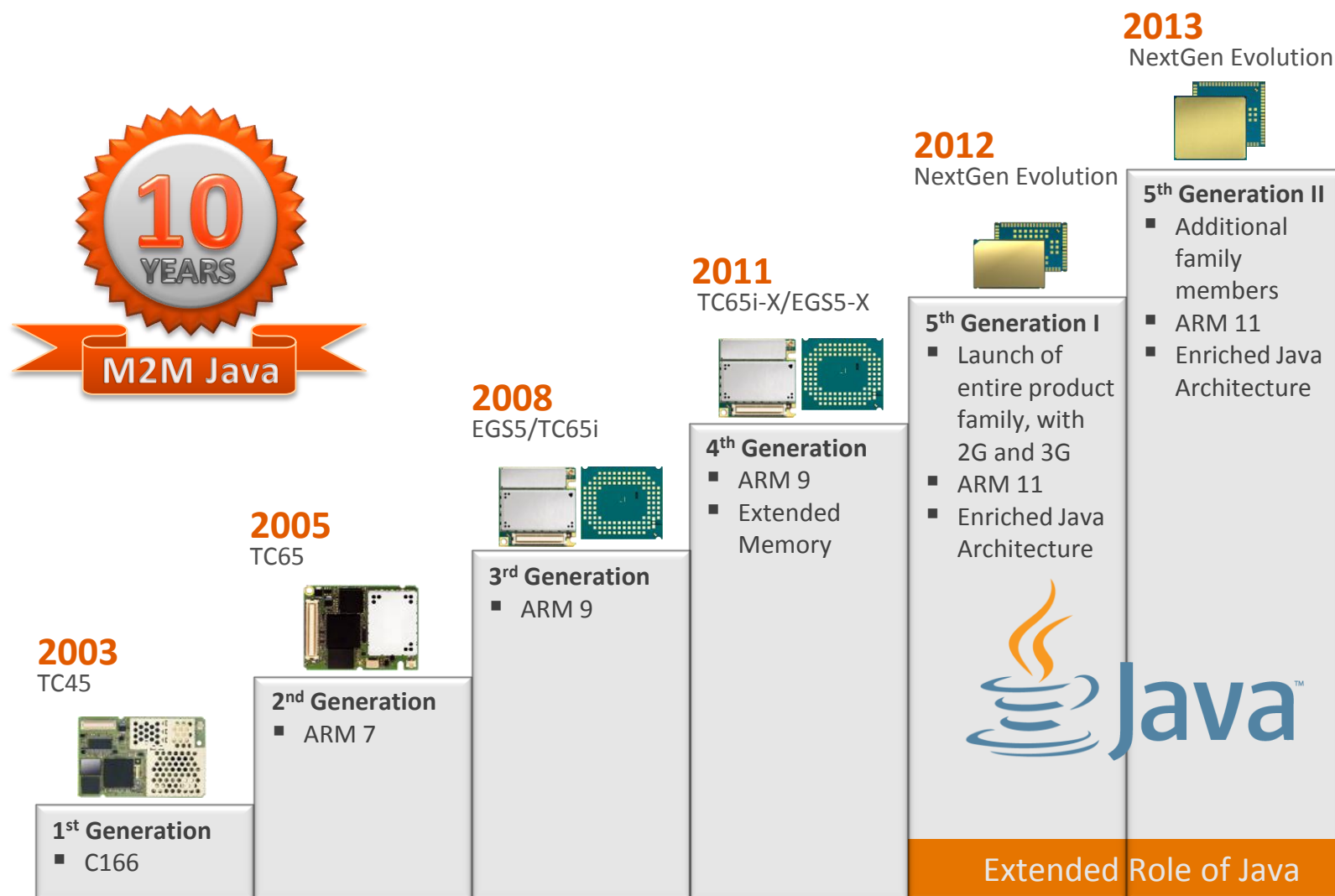
*Prepared for embedded secure element

Java for M2M

Why Java?



10 Years of M2M Java!



Why Java for M2M Modules?

Perfect match for module system architecture:

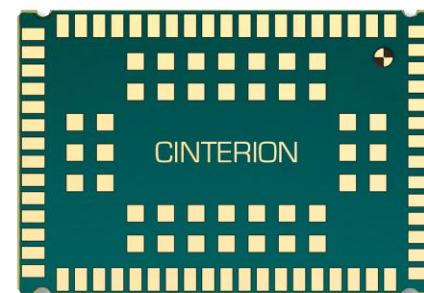
- > Ideal alignment with resources & performance
- > Separating application and approval relevant cellular part ensures stable & compliant operation

A complete package:

- > Broad feature set / JSR's
- > Easy memory and resource access
- > Remote application management and update
- > Proven tools, development kits
- > Large existing code base and building blocks

Java is future proof:

- > Broad adoption
- > Confirmed roadmap & community process



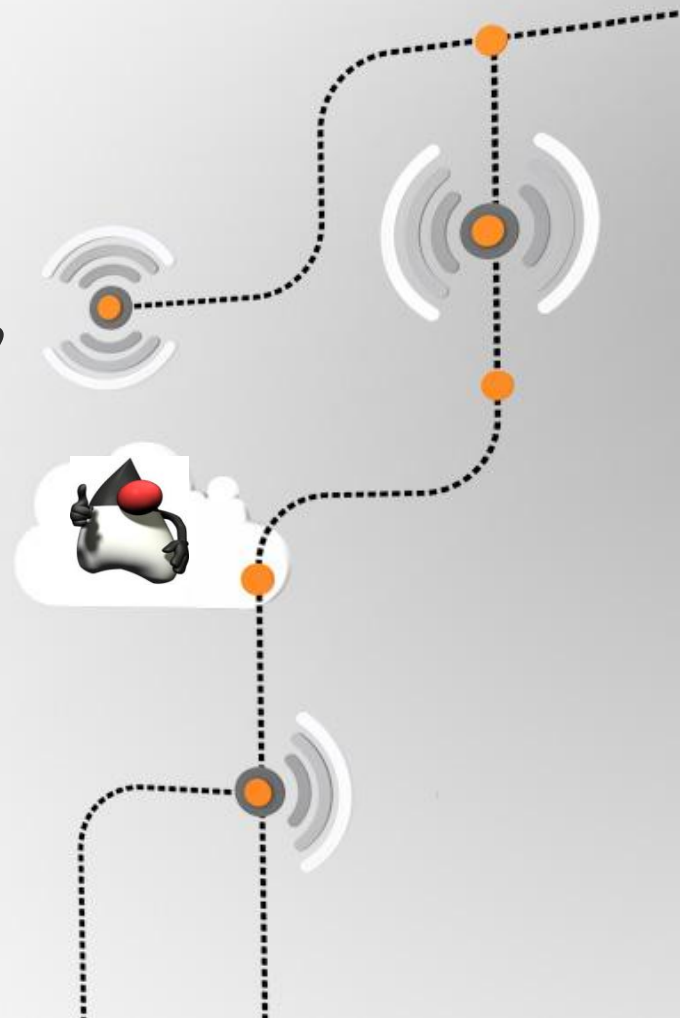
Java support for M2M



<http://developer.gemalto.com>

Developer Zone

**Online mid.
February 2014**



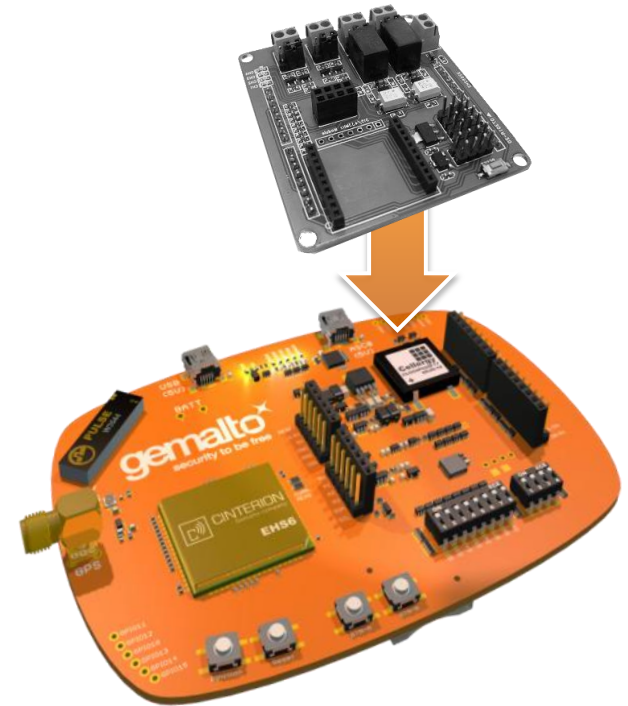
Concept Board

The ultimate cellular Java Dev Board Prepared for extensions



Extendable development kit based on EHS6 module

- > 5-Band HSPA (7.2M/5.7M)
- > HW-extensions through Arduino-style Connector
- > RS232 / USB Interface
- > Power via USB or battery
- > Integrated 5-band antenna
- > User buttons and LEDs
- > On board SIM holder
- > All interfaces accessible



Software Development



NetBeans

On Device
Profiling

On Device
Debugging

eclipse

Software Development



How it works ...

Software Development



Something to take
away

COMPETITION

Write a SMS to...

Phone number: **+467190002500437**

First three incomming
SMS win a
Concept Board!

www.gemalto.com/m2m



Demo

Phone number: +467190002500437

www.gemalto.com/m2m

