

ARM, IoT & mbed

Pratul Sharma
Technical Marketing Manager
Pratul.sharma@arm.com

About ARM....

- The World's leading processor design company

ARM[®] TRUSTZONE[®]

System Security

ARM[®] ARTISAN[®]

Physical IP

ARM[®] MALI[™]

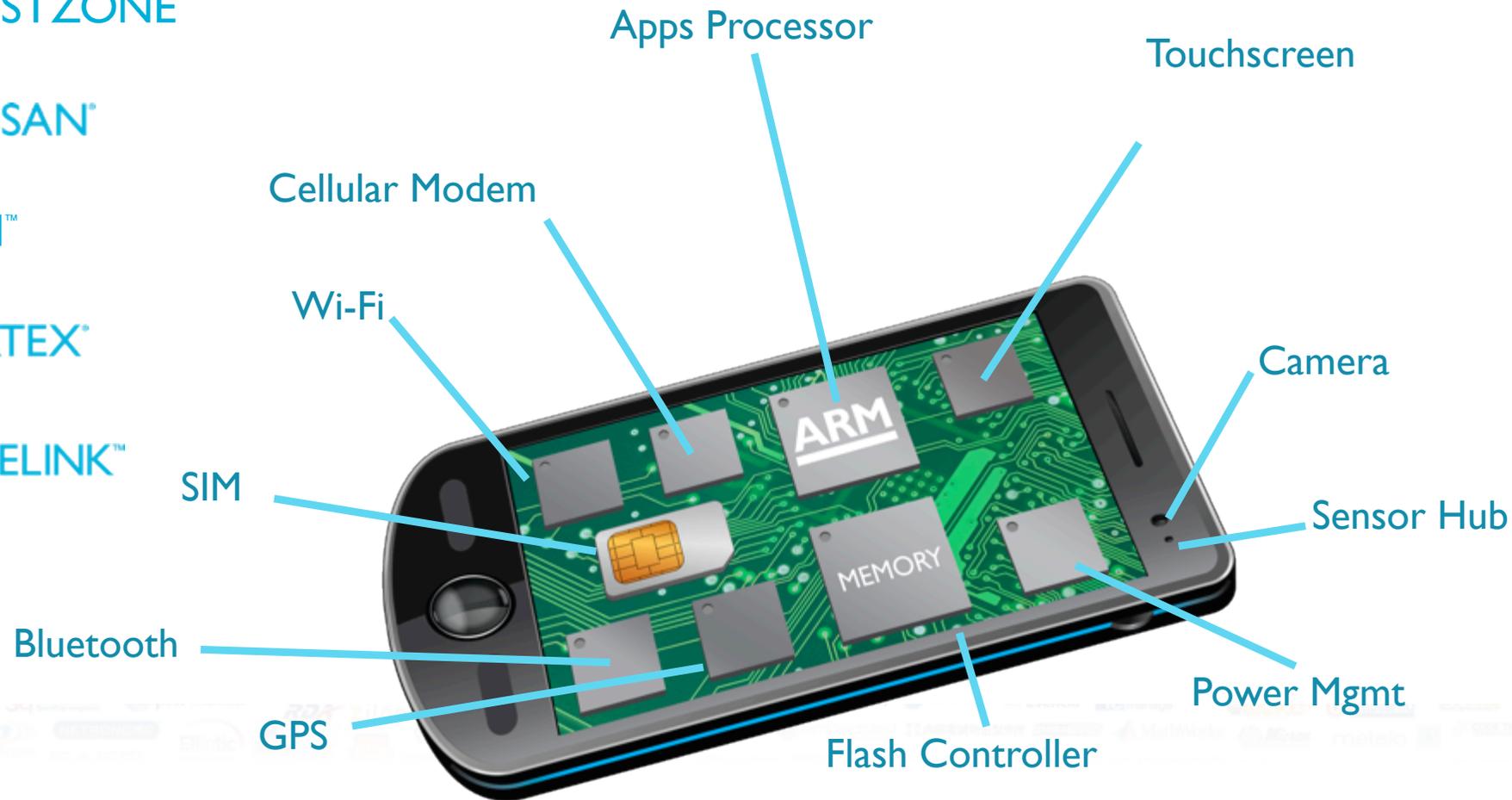
Visual Technology

ARM[®] CORTEX[®]

Processor Technology

ARM[®] CORELINK[™]

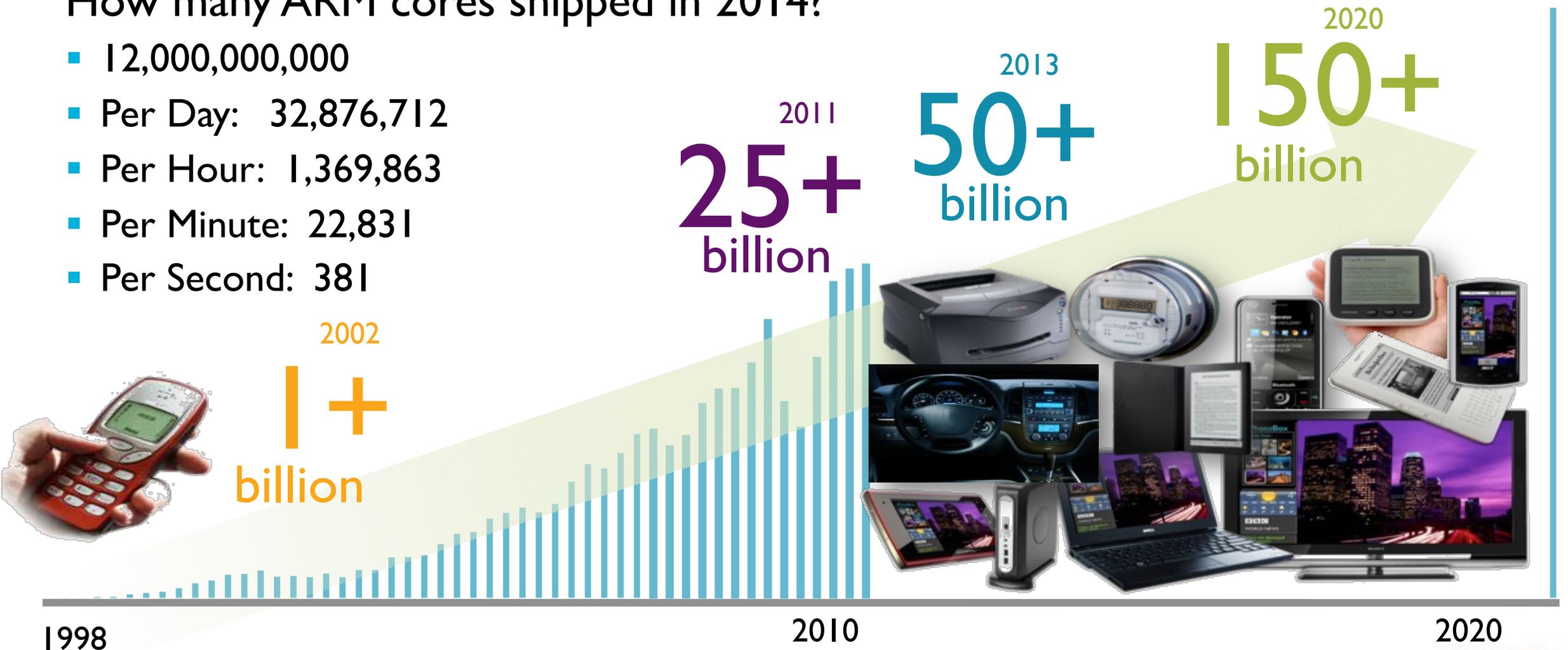
Processor System IP



Which results in:

How many ARM cores shipped in 2014?

- 12,000,000,000
- Per Day: 32,876,712
- Per Hour: 1,369,863
- Per Minute: 22,831
- Per Second: 381



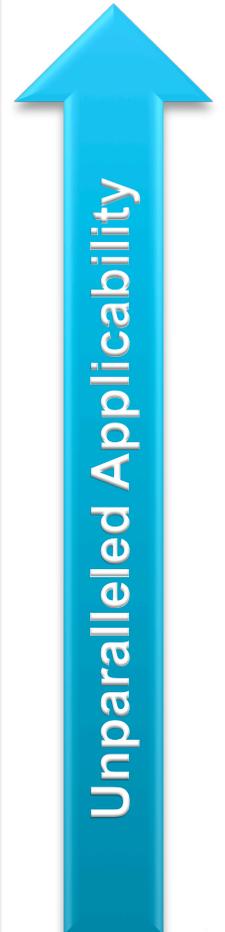
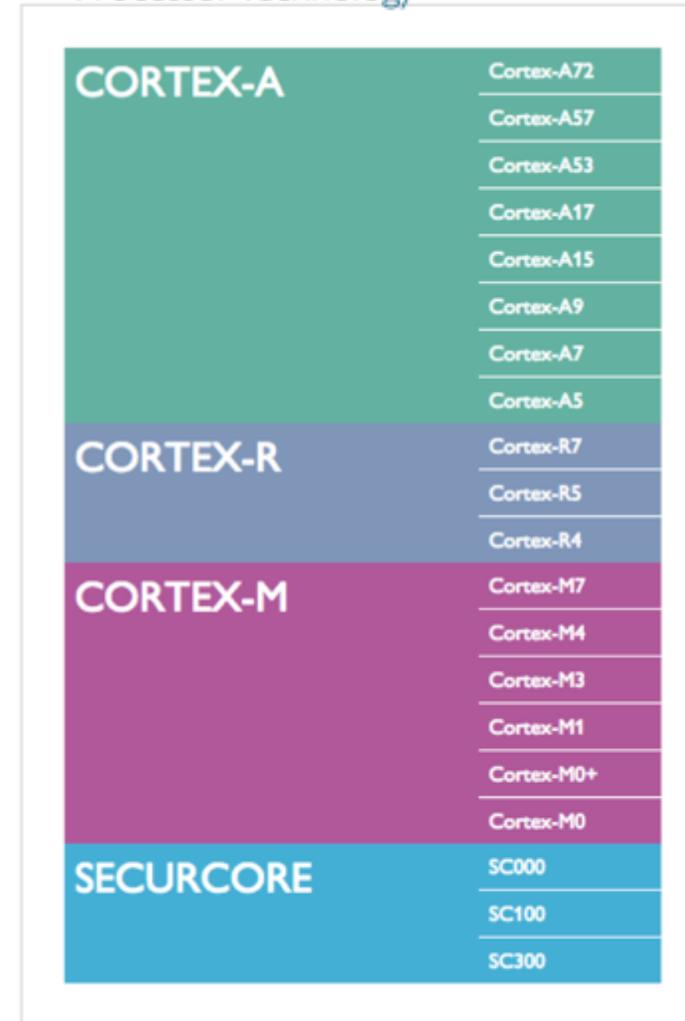
ARM Cortex Advanced Processors

Architectural innovation, compatibility across diverse application spectrum

- ARM Cortex-**A** Series
 - Applications processors for feature-rich OS and 3rd party applications
- ARM Cortex-**R** Series
 - Embedded processors for real-time signal processing, control applications
- ARM Cortex-**M** Series
 - Microcontroller-oriented processors for MCU, ASSP, and SoC applications
- ARM **SecureCore**TM
 - Tamper-resistant security

ARM CORTEX[®]

Processor Technology



ARM

ARM mbed IoT Platform

Little data enables big data

ARM[®]mbed™

IoT Device Platform

mbed OS



IP and Web to the edge

mbed Device Server

IoT Services



Alcatel-Lucent



End-to-End Security, Web, Data Objects & Management

Little Data

BIG DATA



The mbed Partners



wot.io™

SeeControl™

Alcatel-Lucent

telenor | connexion

salesforce

ZEBRA TECHNOLOGIES

Cloud

ERICSSON

stream

IBM

Telefonica

KDDI

MegaChips

MULTITECH

SmeshLink
EXPERT OF IOT

130,000+
Developers

mbed
OS Services

ADVANTECH

tete

Ecosystem

ATHOS



Farnell
element14

ThunderSoft®

SEMTECH

mbed OS

ESPOTEL

ublox

Atmel

NXP

CAPTIVA

CSR

MARVELL

Silicon

ST
life.augmented

maxim integrated™

freescale™
semiconductor

RENESAS

NORDIC
SEMICONDUCTOR

SILICON LABS

ARM

Connected, Secure and Simple to Use IoT Products

ARM[®]mbed[™]

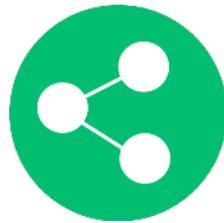
IoT Device Platform



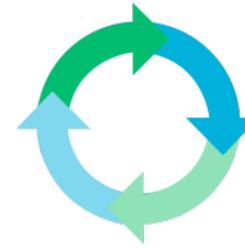
Productivity



Security



Connectivity

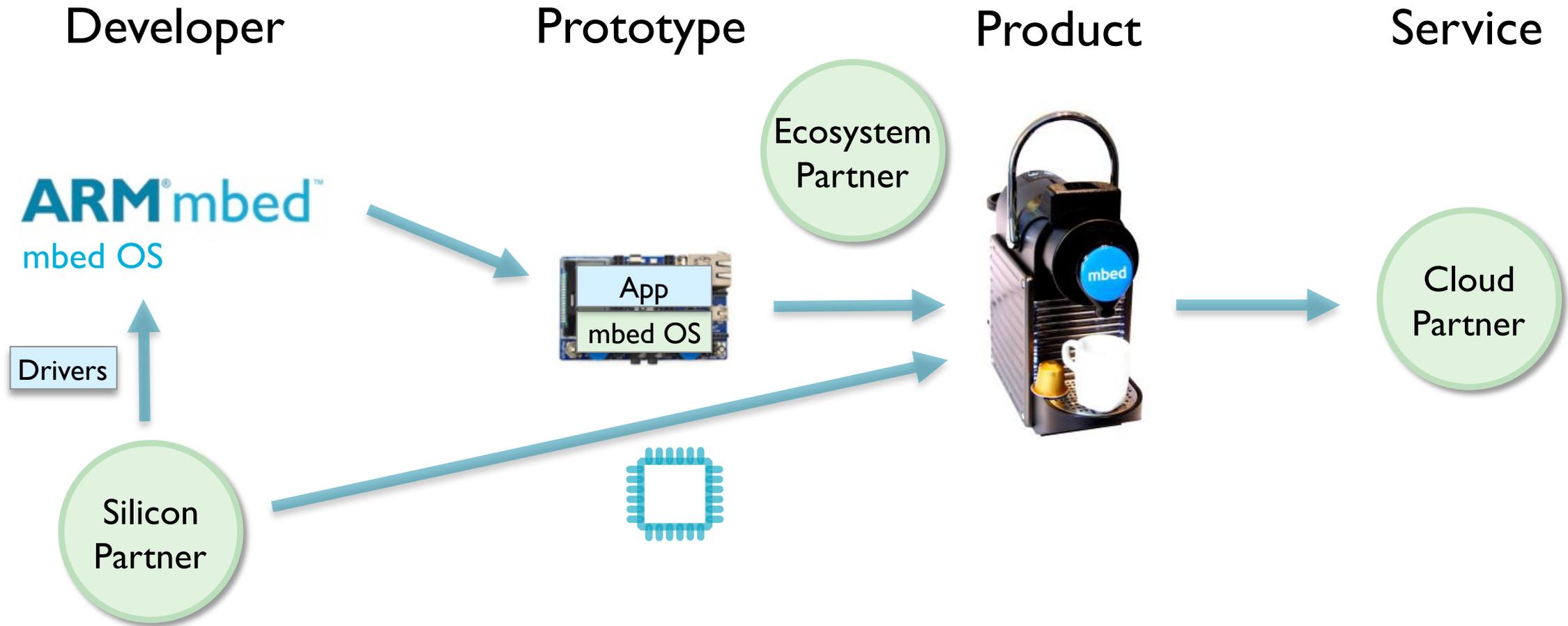


Management



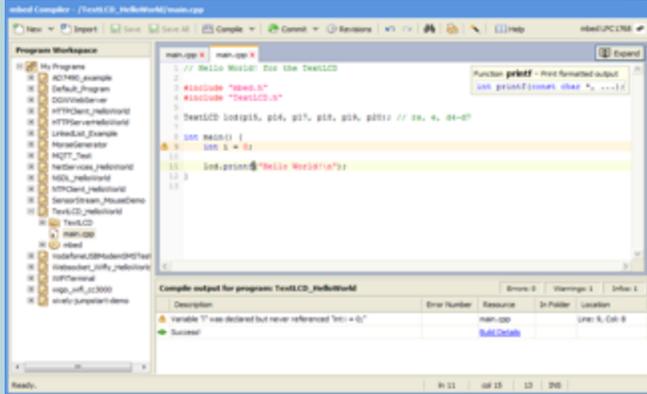
Efficiency

From Idea to Product

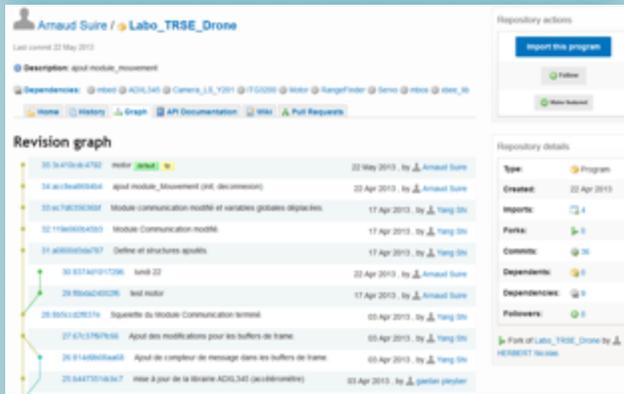


mbed Developer Tools

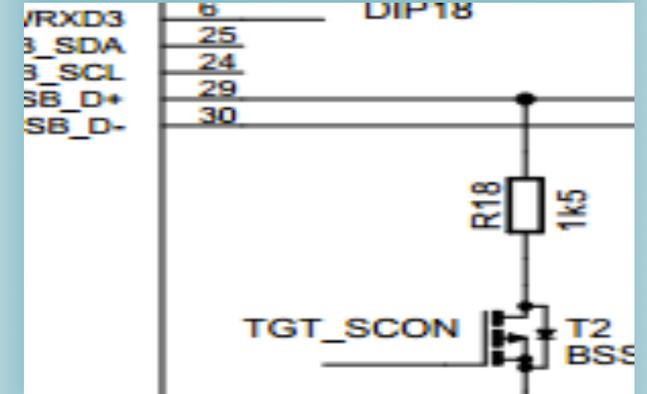
Web IDE



Online Collaboration Tools



HDK



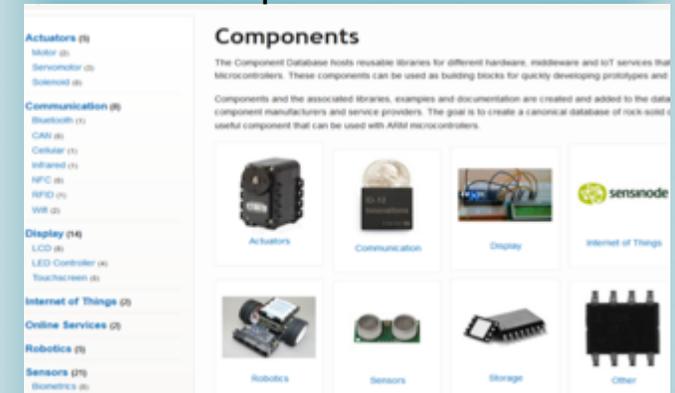
60+ Hardware Platforms



130K+ Developers Word wide



Component database



mbd OS Overview



Minimize time-to-market



Low-power by design



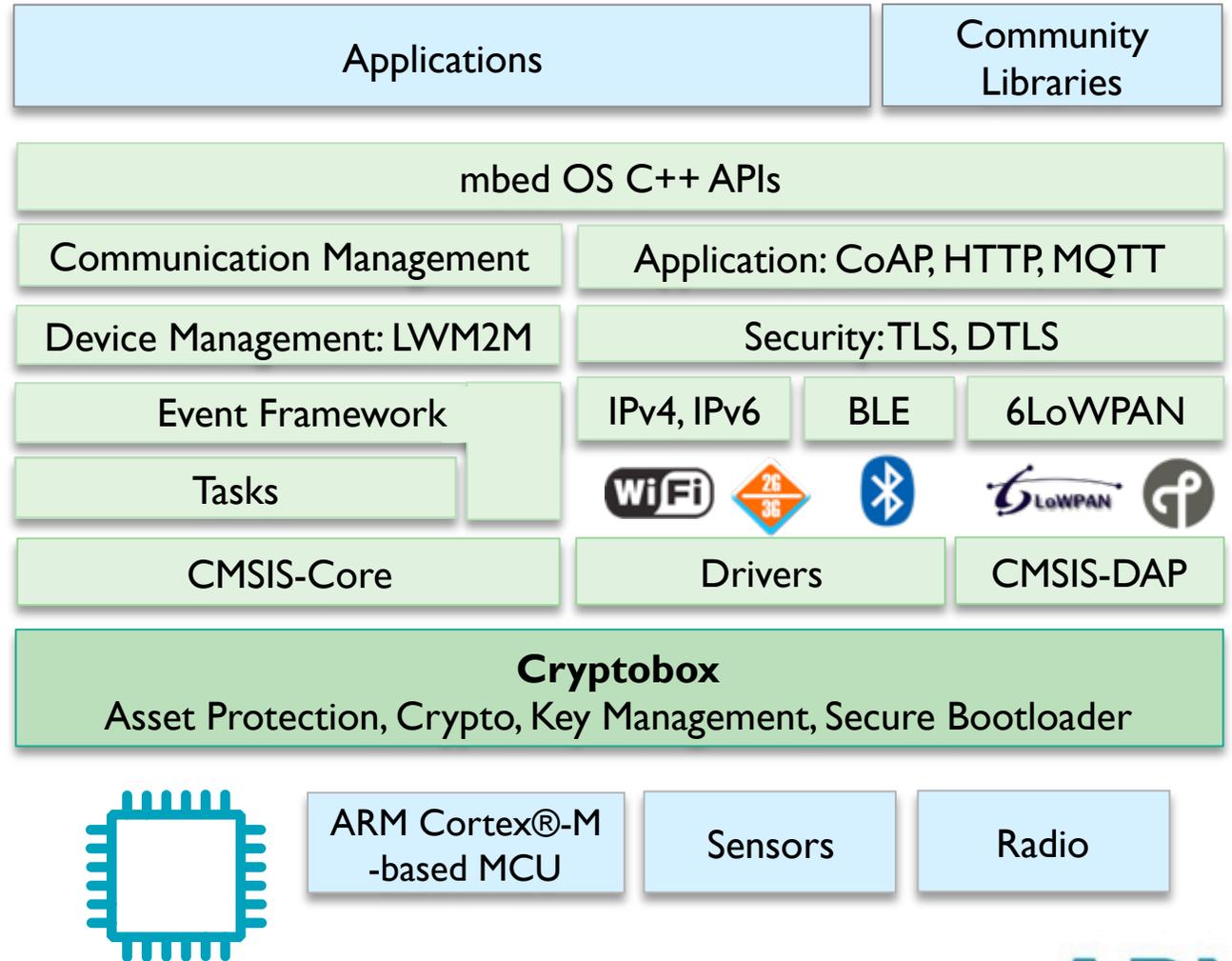
Complete security solution



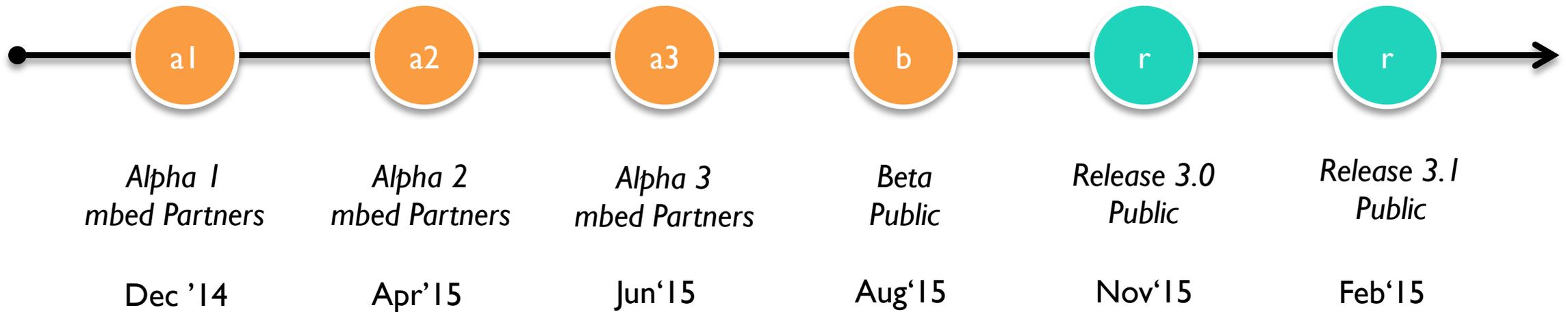
Top connectivity standards



Built-in device management



mbed OS Release Schedule



mbed Device Server



Straightforward integration



Periodic connectivity support



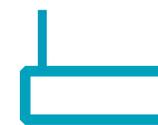
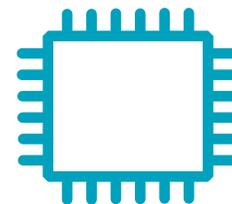
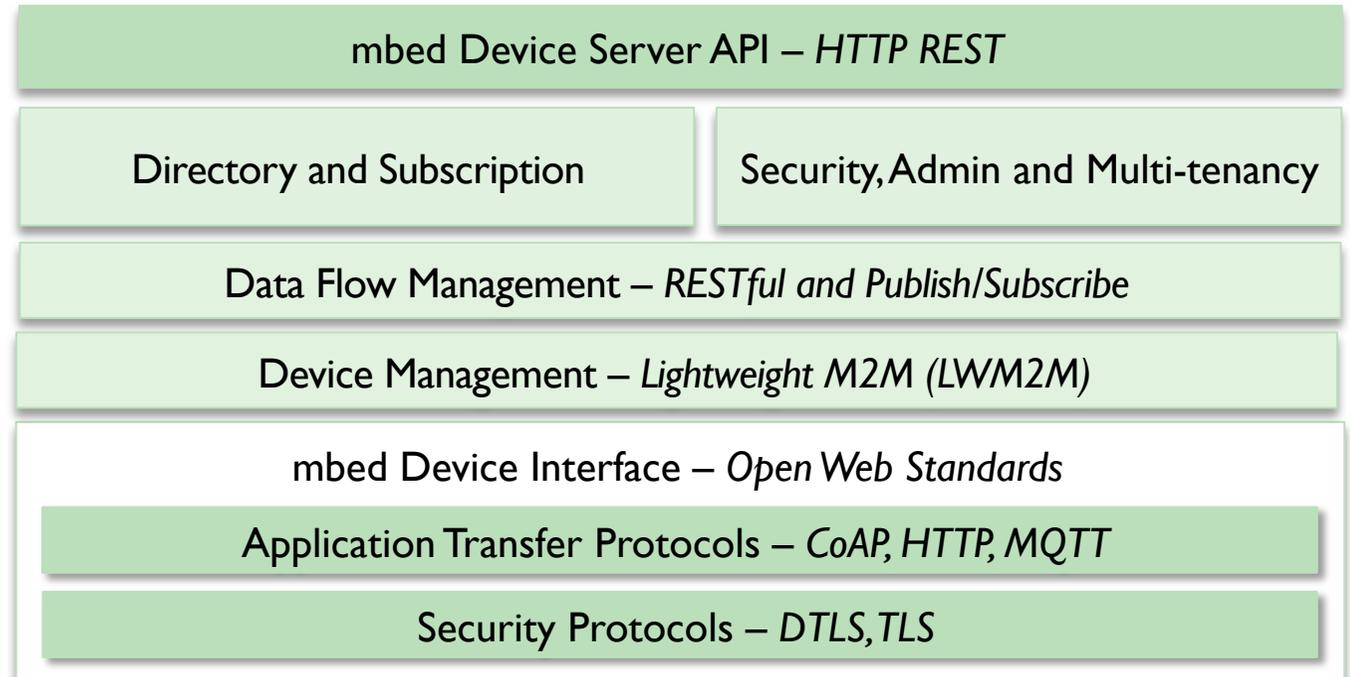
Complete managed security



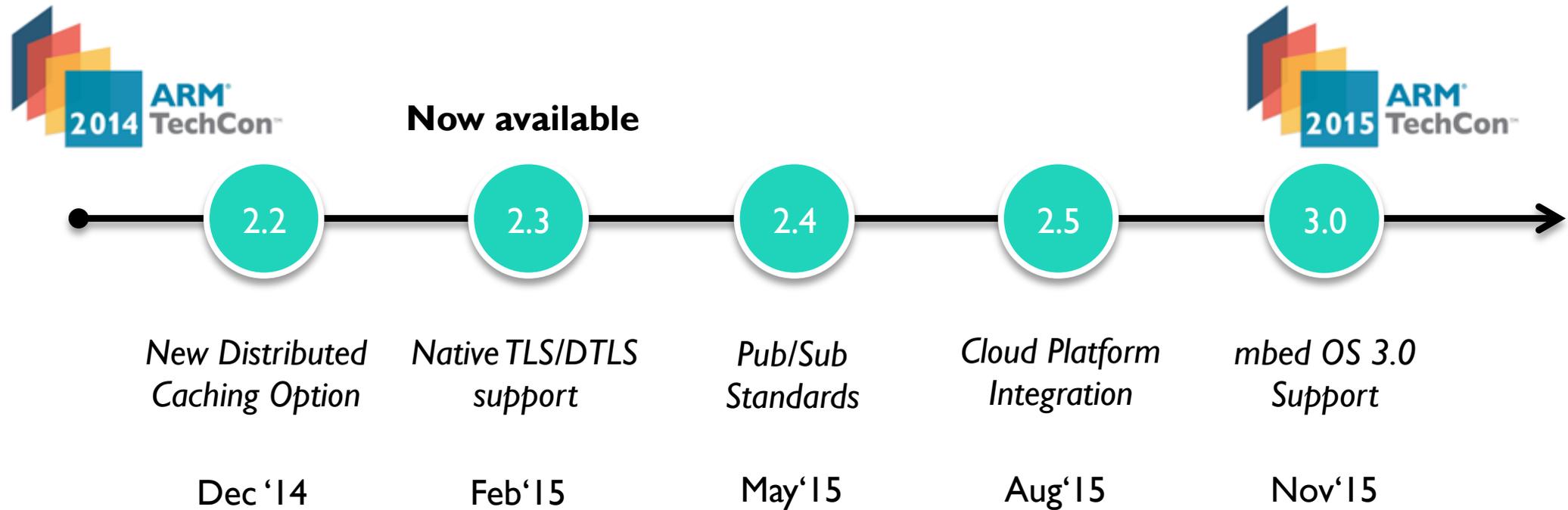
Leading open standards



Lightweight management



mbled DS Release Schedule



mbed Client for non-Cortex M



TLS based security support



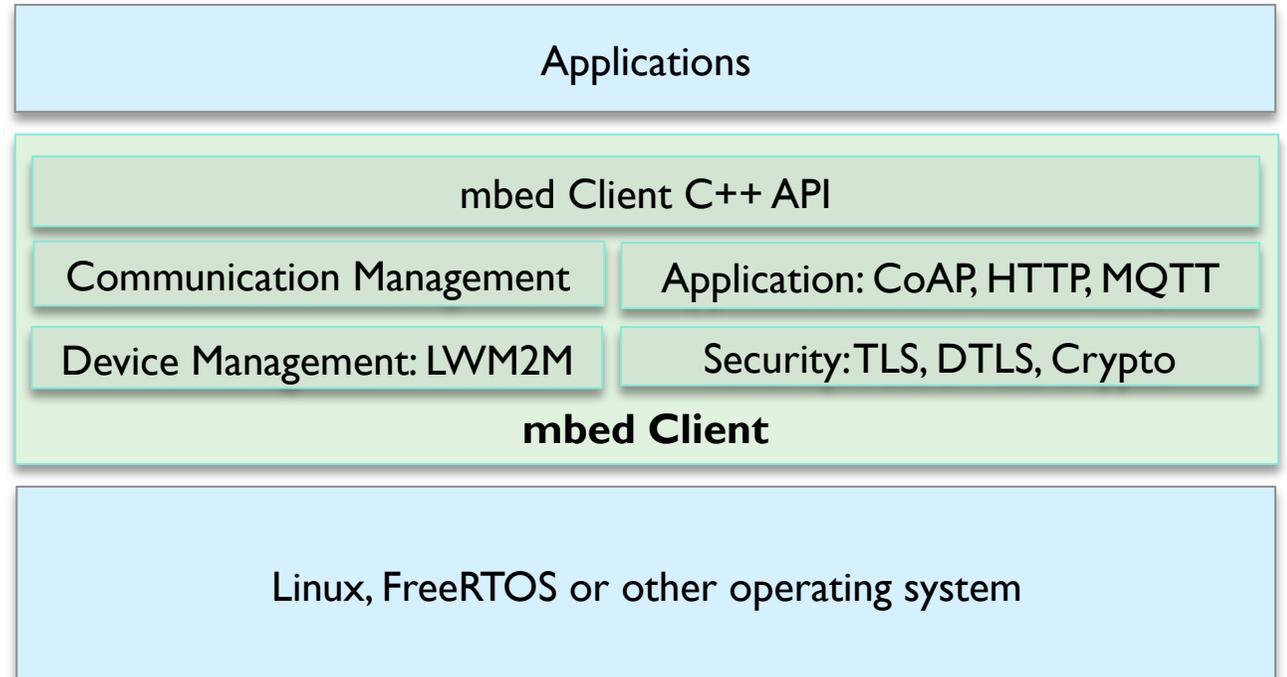
Easy mbed Device Server integration



Device management support



Use with existing platforms



SummaryWhy ARM's mbed for IoT

- **Strong, growing ecosystem** of developers and partners
 - Expedite your development leveraging a strong, growing ecosystem
- **End-to-end system software** solutions
 - The only horizontal software provider that can address all IoT verticals
 - Commitment to standards-based solutions
- **Aggressive product roadmap** with increasing functionality
- **Commercially-deployed products**, with tier-I reference customers



Thank You!