

Mobile Application Development Options

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AT&T AMAP – Advanced Mobile Applications Practice

What is your Strategy?

Brand

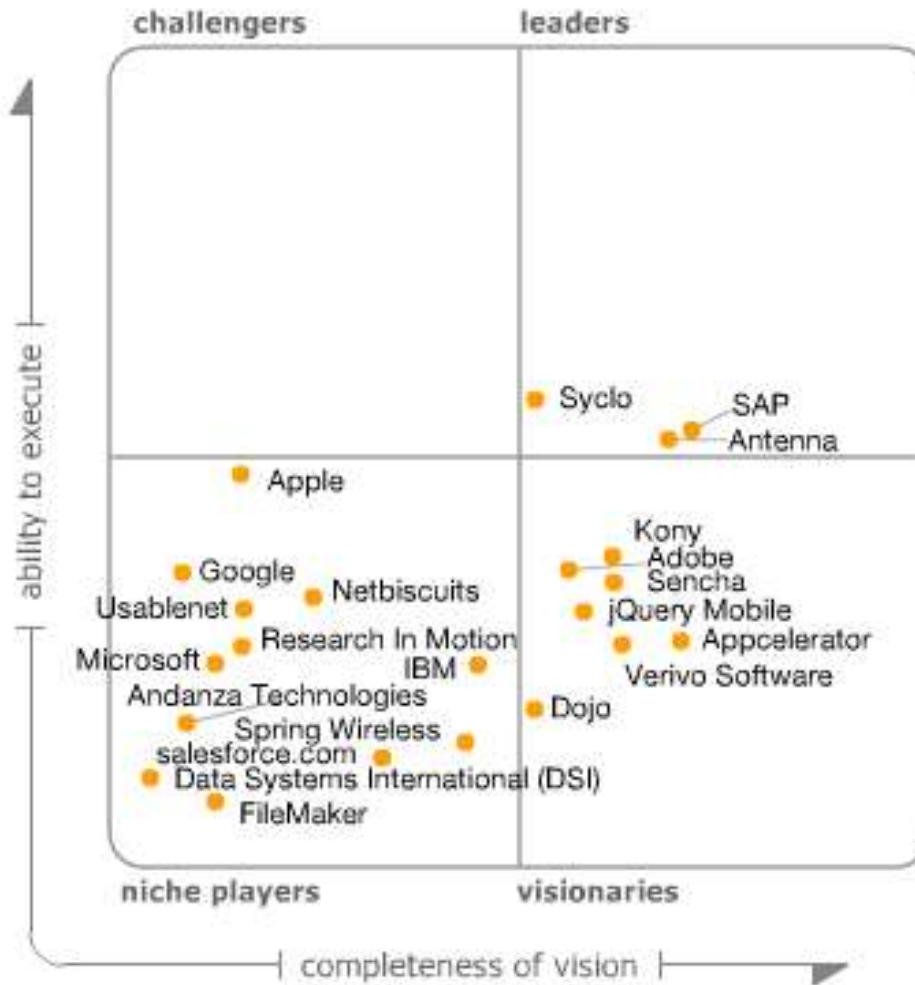
Mobile

Service



Industry View from IDC and Gartner

Gartner Magic Quadrant Leaders

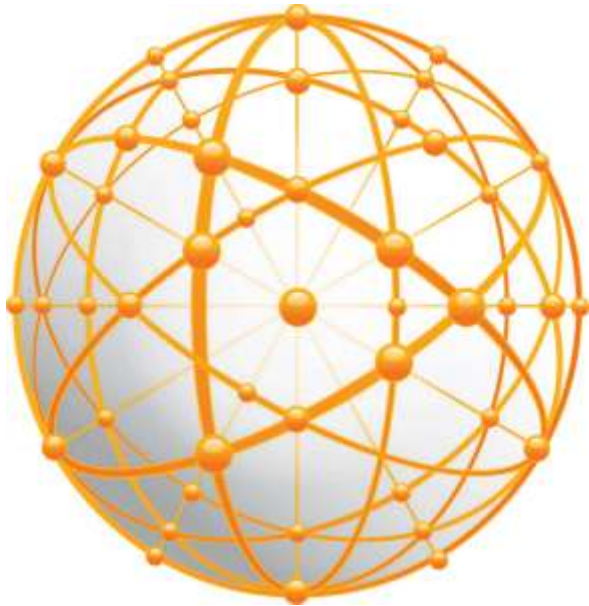


As of April 2012



Our Strategy

To flexibly deliver
integrated content,
applications and
services...



...to any device,
anywhere, anytime.



Network Sourcing



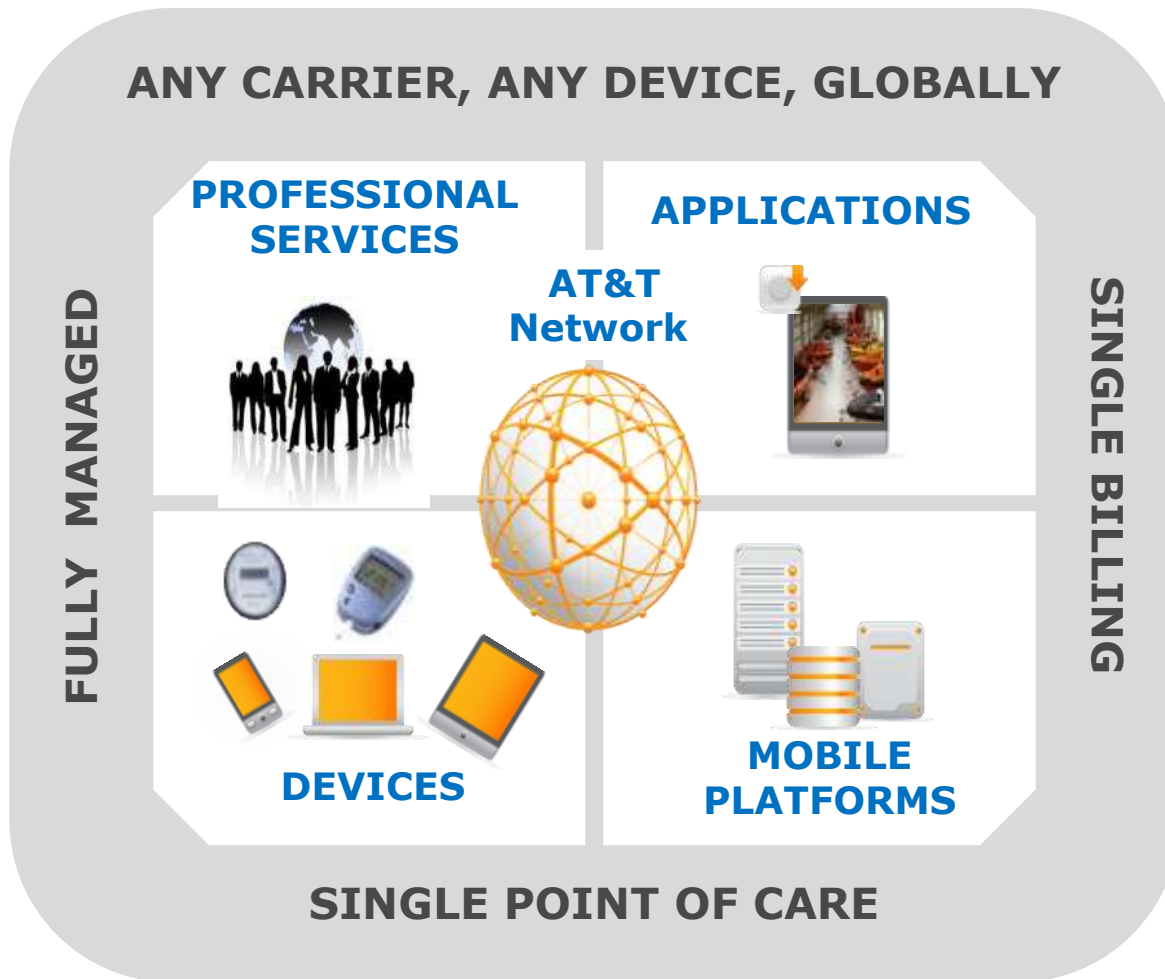
Mobile Productivity



As a Service



AT&T Advanced Mobile Applications Practice



- Native & Platform development capability
- Omni-Channel: native, hybrid, web, sms, etc.
- Full lifecycle services
- Cloud/Managed services



AMAP Delivers End-to-End Application Solutions

Internal / External Mobile App Stores

B2C Applications

B2E Applications

B2B Applications

Mobile Web

HTML5

Location API's & Services

Native

Hybrid

MD
M

Platform

Strategy & Vision

- Enterprise Mobile Strategy
- Application Ideation
- Mobile Marketing
- Governance & MCOE
- Business Transformation

Solution Design & Architecture

- Solution Architecture
- Platform Consultation
- Lifecycle Planning

Solution Development & Integration

- Great Plains
- Web Services
- Oracle
- SAP
- Legacy Systems
- SQL

Solution Deployment

- Staging
- Loading
- Provisioning
- Kitting
- Testing

Help Desk Support

- Tier 1, 2 and 3 support
- Application Support
- Device Support
 - Spares Management
 - Advance Exchange
 - Warranty Management



Managed Solutions

- Hosted solutions
- SaaS



Choose an App Development Model

The decision impacts Total Cost of Ownership through the entire application lifecycle, and each model comes with its own set of challenges and risks.

Smart Client

- Low-cost tools
- Unique device capabilities
- Ability to store & forward data
- Specialized development skills by mobile OS
- Leverage MEAP

Rich Internet Applications

- Tools from desktop Web application development
 - MS Silverlight
 - Adobe Flash (ActionScript, Flex)
 - Sencha Touch
- Container-based (e.g., Adobe Flash Player required)

Mobile Web

- HTML5 and JavaScript
- Supported by mobile browsers that support WebKit
- Leverage Web development resource skills



HTML5 vs. Native Application

Reach

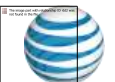
Rich



- ✓ **Ubiquity**
- ✓ **Easy to use, minimal training**
- ✓ **Time to develop & deploy**
- ✓ **Extend simple intranet apps**



- ✓ **Support offline mode**
 - ✓ **Enforce local business logic**
 - ✓ **Complex logic & integration**
 - ✓ **Leverage device capabilities**



Mobile Web

- This is the lowest common denominator to mobilizing backend's across multiple endpoints
- User experience is generally compromised due to browser limitations
- Has emerged in recent times as a viable option for non-smartphone devices
- Satisfies stringent security requirements since SSL is commonly used across desktops and has been in use for several years.



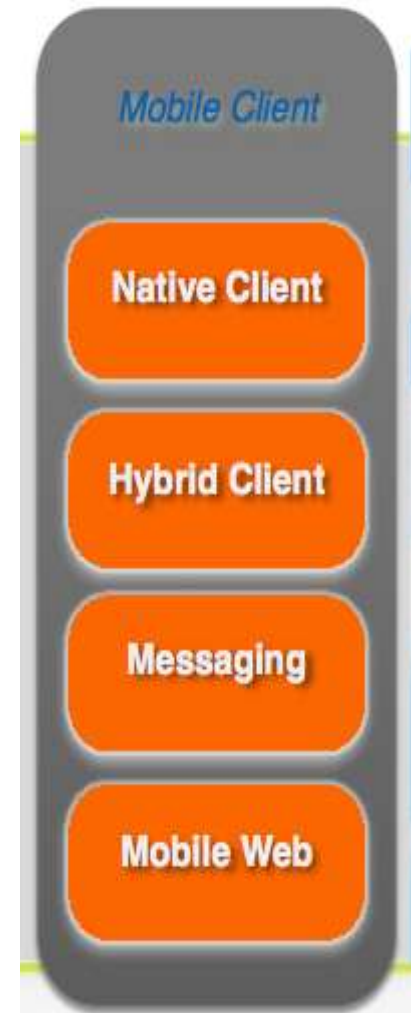
HTML5

- Most promising framework for leveraging web technologies.
- Unfortunately, it's greatest strength in terms of diversity of frameworks has also led to fragmentation.
- Technology has not evolved and applications have performance drawbacks.
- Can only be used as a viable option if the application can invest in a single framework and if the technology involves in the next year.

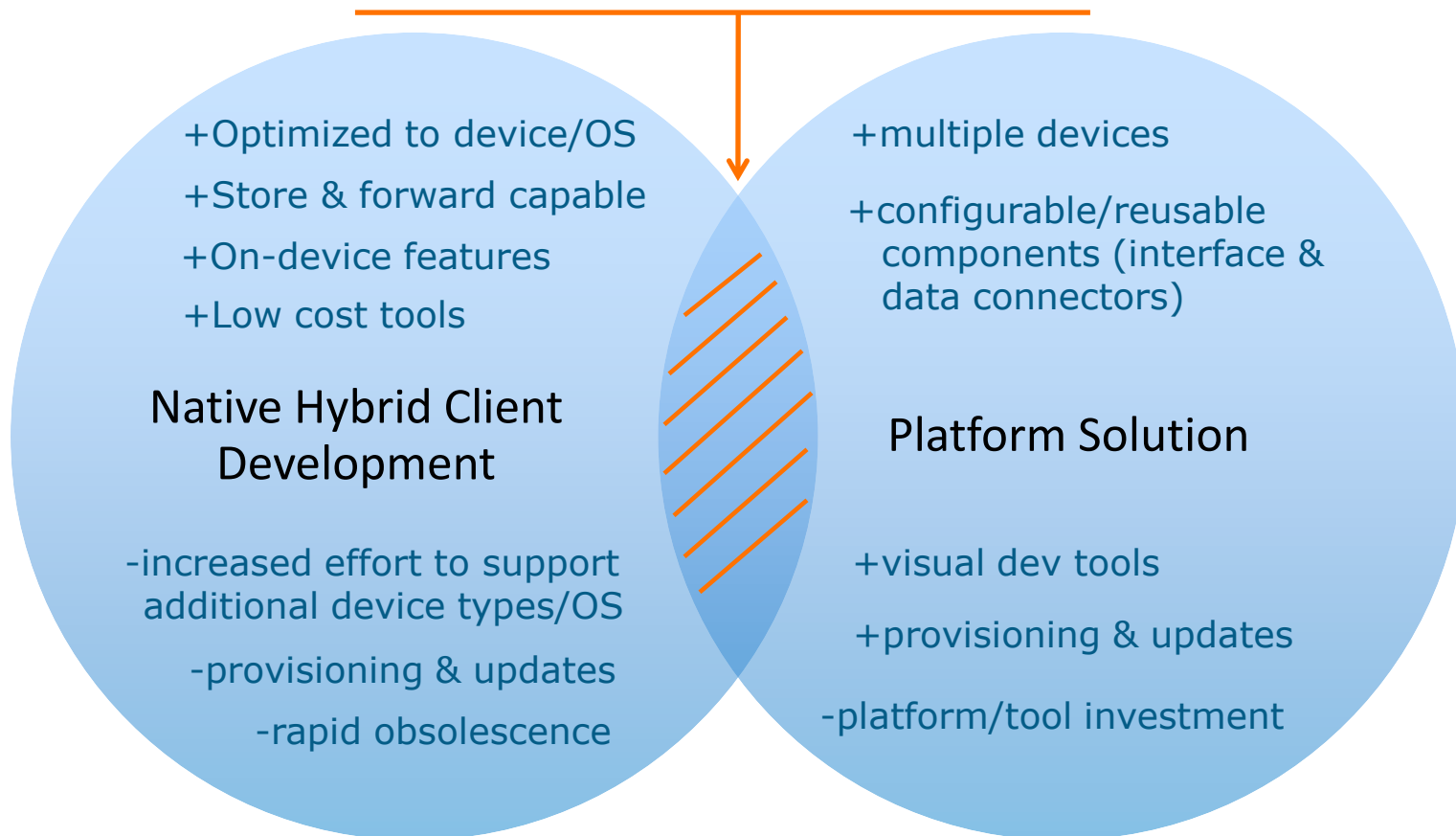


Platform

- Encompasses native, mobile web and HTML5.
- Abstracts the development from specific SDK's and frameworks.
- Applications can be deployed rapidly and changes can be pushed dynamically without having to update the platform appstore.
- Provides administrators with full management support for applications and also low level device management features.
- May not be the best option if there is only one application or a single device platform.



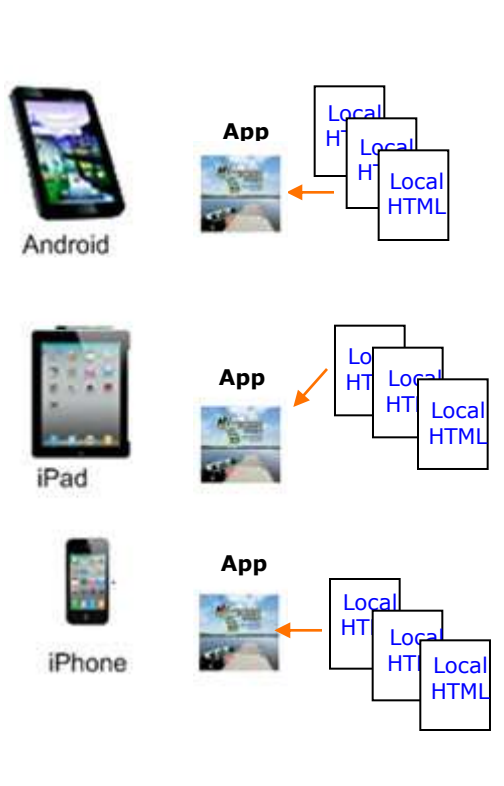
Make a Choice Between Native-Only or MEAP



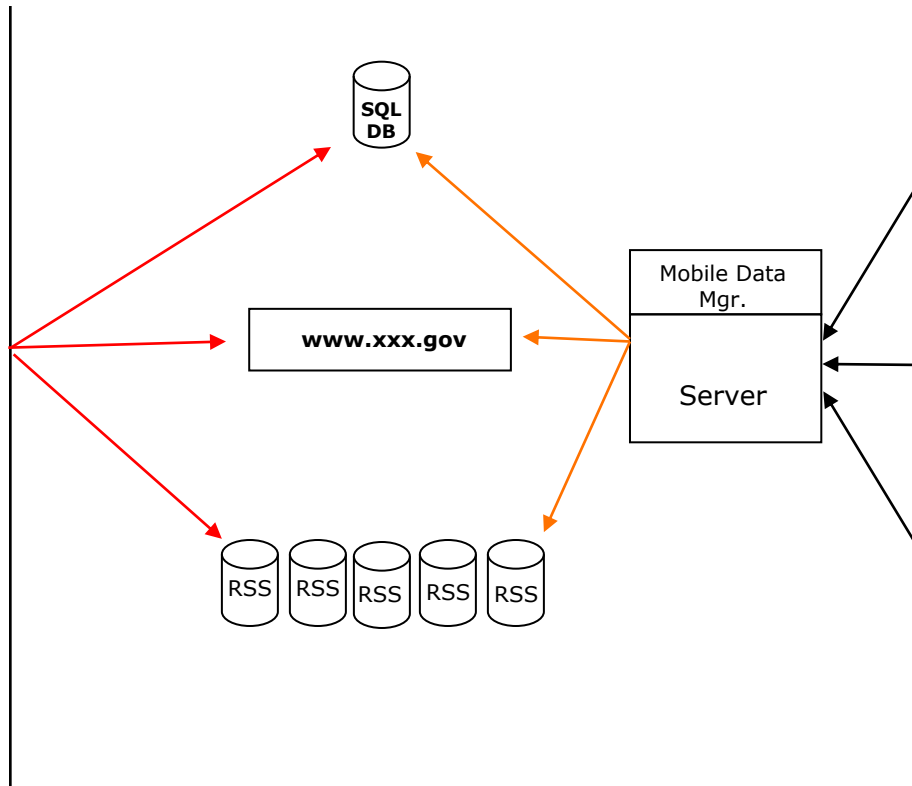
Solution Model Designs

Basic backend infrastructure components for the State of Michigan remain the same regardless of mobile application development choice

Hybrid Approach



Data Center



Platform Approach



AT&T MEAP

What is AT&T MEAP?

Comprehensive suite of products and services that enable enterprises to design, build, deploy and manage dynamic mobile business to business (B2B)/business to enterprise (B2E) and business to consumer (B2C) applications



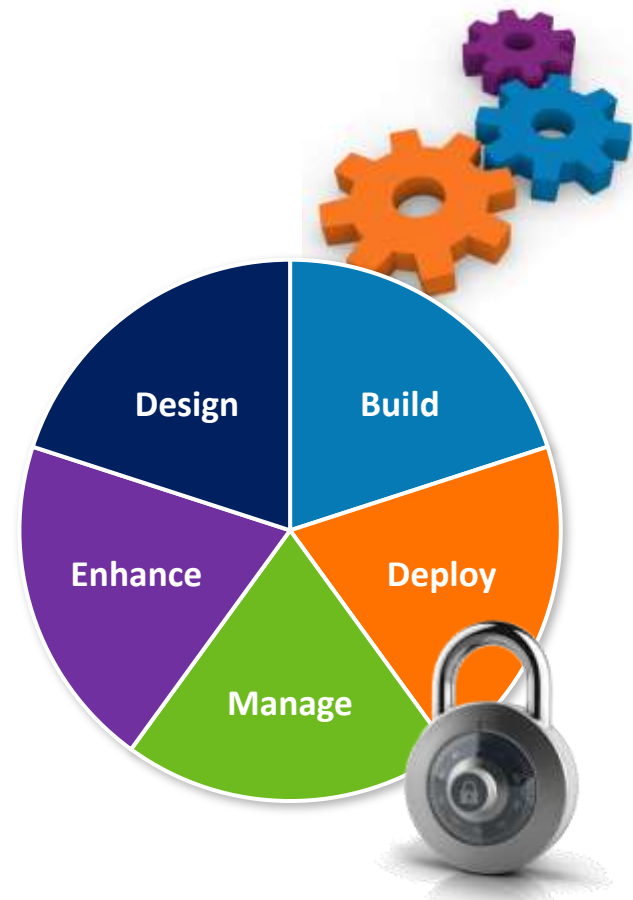
- Simple to complex solutions, from small to enterprise grade customers, custom to niche offers
- Efficiently “mobilizes” back-end applications to run on the operating systems of a variety of devices
- Delivers integrated content, applications and services to nearly any device, anywhere, anytime, for both employees and consumers.
- Life Cycle Management – from requirement gathering to management, deployment and support.



AT&T MEAP

Why AT&T MEAP?

- Increased agility and real-time, over-the-air access to critical applications
- Adaptable to business needs and IT requirements
- Extensive tools for managing, monitoring, and troubleshooting from end-to-end (backed by 24/7 enterprise-grade support)
- Potential return on investment (ROI) and cost reductions
- Better information flow to improve worker utilization.
- Predictive security network, device, and application levels. End-to-end tested and certified
- Single source, single contract and bill from AT&T
- Native and Platform development capability



AT&T Mobile Enterprise Applications Platform

A Two Pronged Engagement

Government to Government (G2G) – Extending Business Applications to Employees and Partners Can Help You:

- Leverage existing customer resource management (CRM) investments with application enhancement
- Potentially increase employee productivity
- Enhance operational business intelligence with accurate and reliable data capture
- Allow real-time collaboration
- Improve business process timing
- Control costs
- Accelerate responsiveness



Government to Citizens (G2C) – Leveraging Mobile Applications for Your Customers and Consumers Can Help You:

- Provide citizens with instantaneous access
- Improve citizen experience
- Gain citizen insight, demographics, and preferences
- Proactively reach citizens in a new channel of engagement
- Enhance customer service



AT&T MEAP

The Mobile Applications Challenge – What Now?



Rethink Possible[®]

