

RED HAT MOBILE APPLICATION PLATFORM

Bringing agility to enterprise mobility

DATASHEET

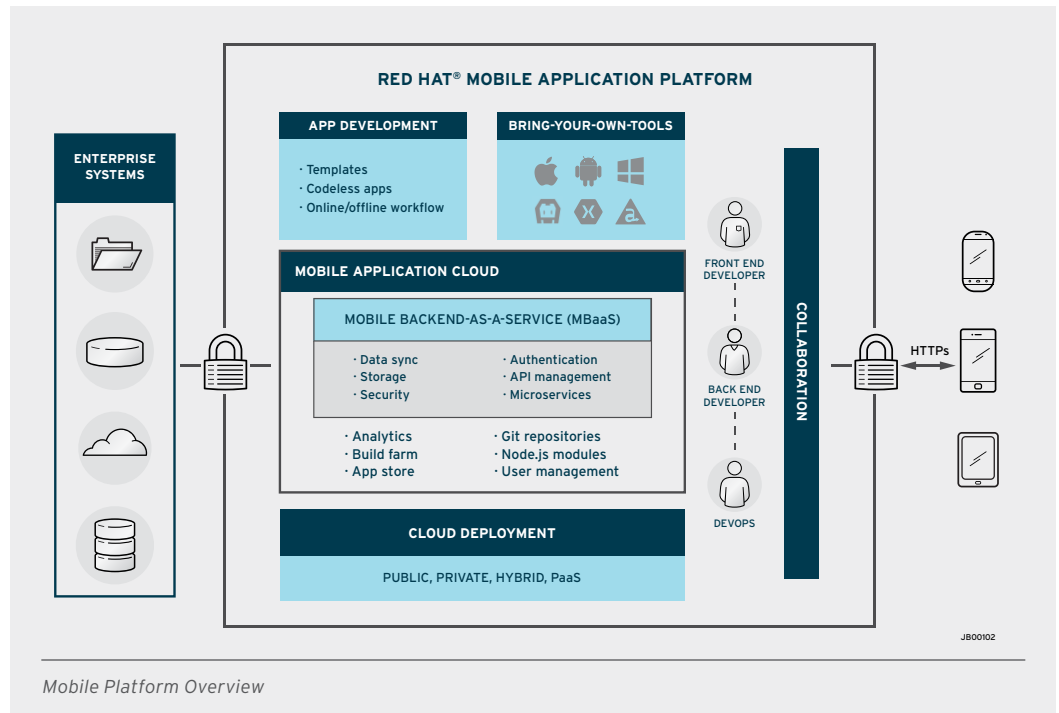
BENEFITS

- Innovation and competitive advantage for line of business
- Centralized control of security and integration for IT
- Flexibility and agility for developers
- Agility and continuous delivery for DevOps
- Fast prototyping for business and developers

OVERVIEW

Red Hat® Mobile Application Platform brings together agility and centralized control for mobile innovation and a competitive edge. Formerly known as FeedHenry 3, this product offers a suite of features that embrace collaborative app development, centralized control of security and back-end integration, and a range of cloud deployments.

Enterprise mobile developers and DevOps teams can work with toolkits of their choice to securely access developer components that can be used and reused across multiple organization-wide mobile projects. Mobile developer teams can collaborate, discover, experiment, and iterate quickly yet still deliver on time with a product that maximizes productivity, minimizes cost and risk, and scales rapidly and securely.



Mobile Platform Overview

FEATURES

Key features of Red Hat Mobile Application Platform include:

- Collaboration
- Bring-your-own-tools
- Back-end integration
- Security and authentication
- Codeless development
- Cloud and on-premise deployment



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1. COLLABORATION AND MOBILE APP LIFE-CYCLE MANAGEMENT

FEATURE	BENEFIT
Team- and role-based collaboration	Development teams, both in-house and outsourced, composed of different skills – UI/UX design, front-end coding, back-end services development, administration, DevOps, and more – can work concurrently on multiple app projects without impacting individual developer agility.
Access control	Configuration of fine-grained controls at all levels of each mobile project facilitates secure access to key project and product components. This helps lock down functionality at different levels within the platform. It also encourages an API-driven and microservices development approach, enabling ease of discovery and reusability.
Mobile application lifecycle management (ALM)	Time to market for mobile projects puts DevOps under pressure to manage multiple iterative app releases. Mobile ALM allows configuration and management of multiple project environments (e.g., development, test, pre-production, production) incorporating the access control features of collaboration.
Developer workflow	By giving every application and cloud back-end within a project its own Git repository, coordinated workflow is a reality. Git supports source code version control and collaboration allowing multiple developers to work on the same code in parallel.

FEATURE HIGHLIGHTS

- Open, extensible architecture based on Node.js
- Enterprise-grade Mobile backend-as-a-service (MBaaS)
- Standard developer toolkits and frameworks
- Teams and collaboration features
- Mobile app lifecycle management
- Codeless, drag and drop apps
- Templates and customizable solutions
- App management and reporting
- Public, hybrid, and private deployment

2. BRING-YOUR-OWN-TOOLS

FEATURE	BENEFIT
Open and flexible toolkits	Developers are free to use their choice of tools including any IDE for hybrid and native mobile app development. Support is provided for native SDKs (iOS, Android, Windows Phone), hybrid Apache Cordova, HTML5 and Appcelerator, as well as Xamarin, Sencha, Ionic, Backbone.js, Angular.js, Ember.js, and JBoss Developer Studio.
Application migration	Existing mobile applications can be migrated and centrally managed. Whether it's an existing native, HTML5, or hybrid application, the code is not lost, credentials and certificates are centralized, and updates can be transferred from one team to another.
Online/offline workflow	Developers are free to work locally in their own environment or work in the hosted studio and access all features, including collaboration, MBaaS features, re-useable code, templates, APIs, shared services, and more.
Multi-device builds	The hosted Build Farm service supports builds for native and hybrid applications for iOS, Android, and Windows Phone, generating the build and digital signatures. This eliminates the need to maintain device-specific hardware/software environments to build new applications.

3. BACK-END INTEGRATION AND API MANAGEMENT

FEATURE	BENEFIT
Mobile back-end-as-a-service (MBaaS)	Based on open technologies and Node.js, the MBaaS functionality provides a high-performance, cloud-based, lightweight framework allowing developers to securely integrate mobile apps with back-end systems. MBaaS manages data storage and management, scaling, notifications, analytics, and more between device and back-end systems, playing a critical role in enterprise mobile app enablement. It comes with ready-to-use modules for common back-end systems such as Salesforce, Sharepoint, and Oracle.
Microservices and APIs	The loosely coupled architecture is based on microservices and RESTful APIs that can be reused across multiple mobile projects by multiple development teams, eliminating the need to reinvent complex back-end connections. Developers can create microservices and back-end APIs in Node.js and share them across multiple projects.
Node.js modules	Developers are free to create back-end services using these modules, which are written in Node.js. Developers can also create new microservices by accessing the module snippets through the Node.js community.
Data sync	The data sync framework allows developers to include offline functionality in their mobile solutions. It provides a mechanism to manage bi-directional data synchronization from multiple client apps via the product and into back-end data stores with facilities for managing data collisions from multiple updates.

4. SECURITY AND AUTHENTICATION

FEATURE	BENEFIT
Encryption	Security begins on the device with the optional use of AES/RSA APIs for encryption of locally cached data, followed by HTTPS from the app to the MBaaS. The addition of an API key per application is allowed to be enabled as required by calls. A set of authentication APIs makes it easy to implement authentication with session management.
Protecting access to back-end systems	Access from the MBaaS to back-end systems can be secured in accordance with the organization's security policies. This can include the use of IP address punch through, fully configured site-to-site VPNs, strong firewalls, DMZs, approved datacenters, approved datacenter locations, and more.
User authentication and authorization	User security and authentication can be managed using user credentials or a user's own LDAP/Active Directory system. OAuth integration is also available for third party services. SSO with vendor-specific offerings can also be implemented.

**FOR MORE INFORMATION
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5. CODELESS DEVELOPMENT

FEATURE	BENEFIT
Drag and drop forms and fast prototyping	Fast results can be achieved from quickly transforming paper-based processes to a mobile form. Apps can be quickly created, without needing coding skills, with the ease of a drag and drop form builder. These codeless apps are also an excellent option for prototyping ideas and extending existing applications with forms capabilities.
Templates	To kick-start the creation of new mobile app projects, the ready-to-use sample and template apps provide the fundamentals of building cloud-powered mobile apps and back-end integrations.

6. CLOUD DEPLOYMENT

FEATURE	BENEFIT
Cloud architecture	Red Hat Mobile Application Platform has a cloud agnostic architecture that offers a wide range of cloud deployments to suit any enterprise requirement. Options include: <ul style="list-style-type: none"> • Public multitenant, including AWS, Rackspace, HP Cloud, and IBM Softlayer. • Private dedicated and managed. • Hybrid, the application cloud code (dedicated MBaaS) can reside in other clouds.



ABOUT RED HAT

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