



Highlights

- An advanced platform for native development and a fast way to create hybrid and web apps
 - Provides a broad set of mobile app users with a rich experience
 - An easier way to manage your entire portfolio of mobile assets
 - The ability to enforce security at every level—for the user, device, data and application
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IBM Worklight V6.2

Build, test, run and manage mobile applications

Today's fragmented mobile landscape presents considerable application development challenges. The increasing number of operating systems as well as the mix of devices, form factors and standards has turned mobile application development and management into a complex and often costly undertaking. Because of these issues, there is a growing market for cross-platform solutions and mobile development tools. Many solutions have shortcomings, including proprietary interpreters, uncommon scripting languages or limiting development environment, leaving mobile developers to make tradeoffs between cost, time-to-market and user experience.

The IBM® Worklight® platform helps business leaders to extend their businesses to mobile devices. It provides an open, comprehensive and advanced platform on which you can build, test, run, and manage mobile applications. With Worklight, you can more efficiently develop, test, run, and manage native, hybrid and web applications with reduced development costs and faster time-to-market. You can also help improve mobile application governance and enable a security-rich environment for mobile interaction at every level, the user, device, data and application. Worklight uses standards-based technologies that virtually eliminate the use of code translation, proprietary interpreters and unpopular scripting languages.

With Worklight, you can help:

- Support multiple mobile operating environments from a single, shared code base
- Connect to and synchronize with enterprise data, applications and cloud services more easily
- Safeguard mobile applications in a security-rich environment
- Manage your mobile application portfolio from one central control point



IBM Worklight is comprised of five components: Studio, IBM Server, Device Runtime Components, Application Center and Console. Using these components together you can help build, test, run and manage mobile applications that can meet the enterprise security standards. The platform is designed to support application provisioning, user authentication, encrypted server-client communication and offline availability, including on-device encryption and offline authentication.

IBM Worklight Studio

The IBM Worklight Studio is a comprehensive environment for advanced, rich native and cross-platform mobile application development. With the help of Worklight Studio, you can help:

- Create a flexible and open platform, enabling developers to create apps across a wide range of device types and channels
- Achieve integration of native, web and third-party code in the same app with advanced tooling including Command Line Interface (CLI) allowing use of preferred native and Web tooling
- Build applications for feature phones, set-top boxes and other embedded systems with Java ME
- Reach the broadest set of devices including feature phones and smartphones over data-less networks with Unstructured Supplementary Service Data (USSD) support
- Optimize code reuse among different mobile operating systems and device form factors
- Use drag-and-drop controls for simplified application development using HTML5, Dojo Mobile or JQuery Mobile
- Use wizards for automated SAP and SOAP services discovery and connectivity code creation
- Enable teamwork productivity with shared enterprise user interface patterns and componentization of project templates and components
- Enable improved application quality and time-to-value with mobile application testing and enabling developers and testers to record, edit and play back code-less test scripts on physical or emulated devices
- Access mobile device application programming interfaces (APIs) using native code or JavaScript
- Enable efficient use of skills, reuse of common logic and tightened security services by employing custom shells that separate native and web business-logic development
- Connect to development, testing and debugging tools provided by device software development kits
- Gain the added advantages of service virtualization, multi-tier testing and automated batch testing through seamless integration with IBM Rational® Test Workbench
- Accelerate development cycles with instant web and hybrid application previews
- Further reduce development cycle times using a process of continuous build and test with the IBM Rational® offerings such as the IBM urban{code}® , Rational Team Concert™ and IBM JazzHub lifecycle solutions.

IBM Worklight Server

The IBM Worklight Server is mobile-optimized middleware, and serves as a gateway between applications, back-end systems and cloud-based services. The server is designed to help you:

- Convert and synchronize enterprise data into a mobile-friendly Javascript Object Notation (JSON) format
- Connect back-end and cloud-based services using configurable XML files, JavaScript or Java and mash-up multiple data sources
- Integrate with existing authentication and security mechanisms
- Share credentials within the same enterprise domain, extending to device Single Sign-On (SSO) so that users can authenticate once to access multiple mobile applications
- Collect and consolidate logs and events both from the mobile devices and back-end systems for consolidated IT operations insights with easier search for patterns and other platform statistical usage data. These data could include new and returning users, usage frequency, response time or crash statistics.
- Build applications that can help you efficiently use geo-location services, including geo-fencing, by setting policies for acquiring geo data and sending it in batch to control battery and network usage

- Enable push notifications with a uniform cross-platform architecture directly to users, not to devices
- Send short message service (SMS) notifications in situations with unreliable data network and other scenarios
- Update the HTML assets of your hybrid applications directly from the server, subject to the vendor's terms of service)
- Take action to protect your mobile infrastructure with server-managed security challenges
- Deploy projects directly to private cloud environments with the optional on-premise or hosted IBM mobile application platform pattern for the IBM PureApplication™ Systems platform

IBM Worklight device runtime components

IBM Worklight also includes runtime client APIs compiled into your final applications and designed to interact with the Worklight server for application security, governance and usability. Device runtime components are designed to provide you with:

- Connectivity and authentication
- Local encryption, offline authentication and remote disabling
- Mobile database for large offline datasets storage, with robust encryption and advanced back-end synchronization
- Runtime skins, user interface abstractions and HTML5 compatibility
- Hybrid application framework, access device APIs and cross-platform registration for push notification
- Data collection and built-in reports or event-based custom reports
- Direct updates of application web resources and HTML5 caching

IBM Worklight Application Center

The Worklight Application Center enables your team to set up an enterprise application store that can help you:

- Govern the distribution of production-ready mobile applications throughout the enterprise
- Use existing authentication frameworks, including access control list (ACL) and Lightweight Directory Access Protocol (LDAP), to distribute applications by department, job function, geography or other topologies

- Manage and enforce application upgrades
- Elicit and organize feedback on app rankings and enhancement requests
- Enable faster build-test-debug cycle by automating the distribution of pre-release software to development and test teams

The Worklight Application Center can help you enable:

- Enhanced control over the distribution of mobile apps throughout the enterprise for administrators
- “One-stop shopping” for the latest applications that are required by the department or job function of employees
- An easier way to distribute pre-release software and to elicit and organize feedback for developers

IBM Worklight Console

The IBM Worklight Console is an administrative graphical user interface (GUI) for the server, adapters, applications and push services which can help you:

- Achieve server-enforced user authentication, app authenticity and device access, made context-aware with improved ISAM integration
- Integrate with Trusteer, providing context-driven risk assessment, malware detection and jailbreak detection
- Get MaaS 360 integration supporting BYOD strategies, containerization and app security
- Manage approved and rejected users and devices for controlled mobile-application installation
- Monitor applications and adapters from a central, web-based administration console
- Gain insight into application usage and responsiveness in the field by upgrading to a more full-featured customer experience analytics with instrumented applications
- Administer push notifications and event sources from one interface
- Control multiple application versions and set update rules
- Remotely disable applications based upon users, version and device type
- Generate extensible user adoption and usage reports that can be fed into analytics platforms such as the IBM Tealeaf®, IBM Cognos® and IBM Coremetrics® platforms
- Configure data collection rules for application-specific events

Mobile operating system support

With IBM Worklight you can maintain support for current mobile operating system (OS) versions through regular releases and fixpacks. The list below is accurate as of the Worklight V6.2 release date. A current list of supported mobile operating systems—including subsequent fixpacks, if any, is available from the system requirements section of ibm.com/worklight.

- Android 2.3, 4.0, 4.1, 4.2, 4.3 and 4.4
- Blackberry 6.0, 7.0, 7.1, 10, 10.1 and 10.2
- iOS 5, 5.1, 6.0, 6.1, 7.0 and 7.1
- Windows 8.1 Pro and RT
- Windows Phone 7.5, 8.0 and 8.1

Why IBM?

IBM provides a more comprehensive set of mobile capabilities used throughout technology and business. Engage with IBM to deliver mobile solutions that can help increase efficiencies and help enable a competitive advantage.

For more information

To learn more about IBM Worklight, please contact your IBM representative or IBM Business Partner, or go to: ibm.com/software/mobile-solutions/worklight

To learn more about IBM MobileFirst solutions: ibm.com/MobileFirst

To download IBM Worklight Developer Edition at no charge, go to: ibm.com/worklight-trial

Additionally, IBM Global Financing can help you acquire the software capabilities that your business needs in the most cost-effective and strategic way possible. We'll partner with credit-qualified clients to customize a financing solution to suit your business and development goals, enable effective cash management, and improve your total cost of ownership. Fund your critical IT investment and propel your business forward with IBM Global Financing. For more information, visit:

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