



IBM Technical Summit 2013

Démarquez-vous

17 octobre | IBM Client Center Paris





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IBM MobileFirst Application Platform Partie 1 - Worklight

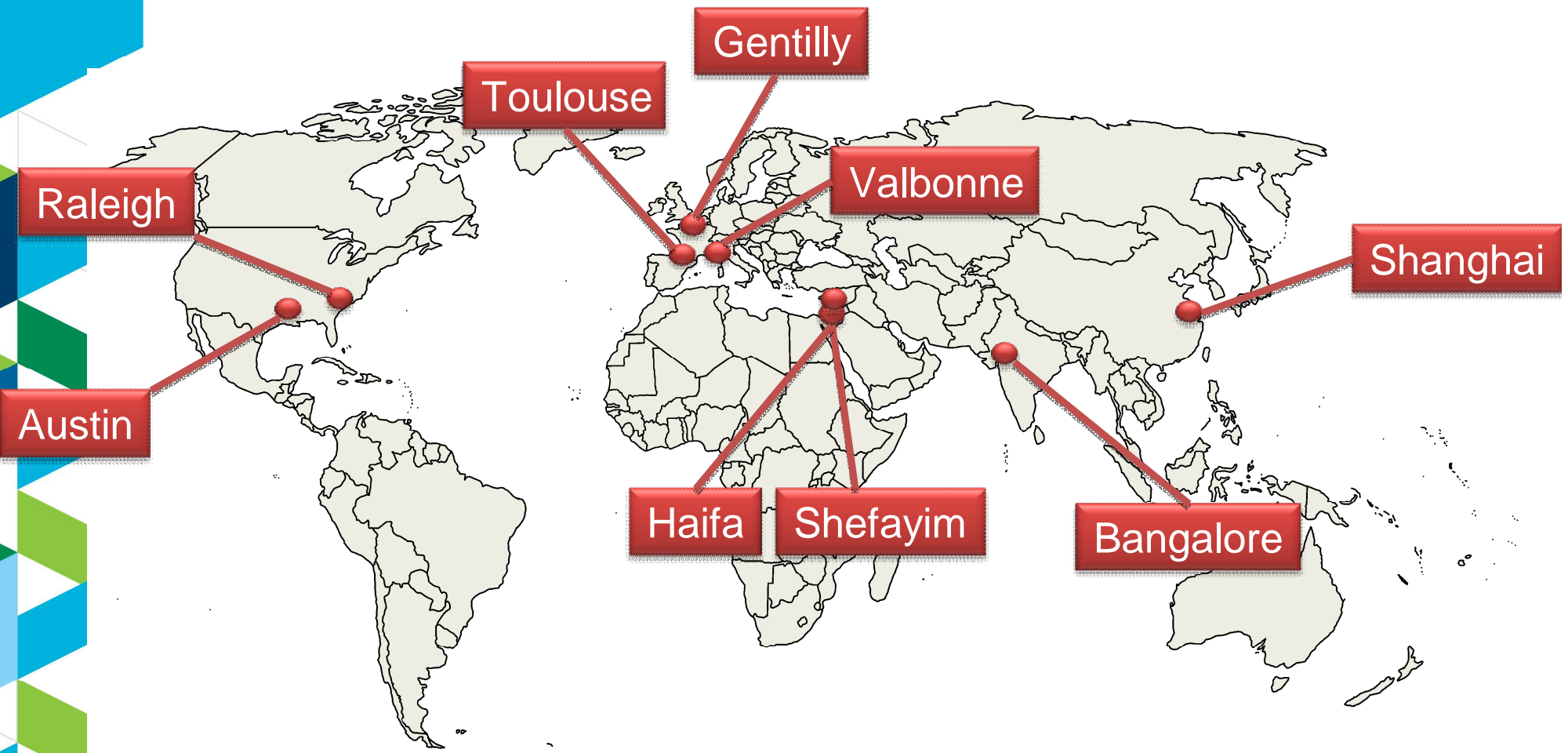
Etienne Noiret

Technical Sales & Solutions

Patrick Megard

Development Manager, Worklight

IBM Worklight Labs





France Lab – Contributions

- Worklight App Center
- Mobile Test Workbench for Worklight (MTWW)
- Dojo & Dojo Mobile
- Documentation
- Installeurs et configuration
- Build

Bénéficiaire d'un lab Worklight en France

- Organiser des séminaires dédiés autour de la mobilité
 - ▶ Echanges ouverts entre développeurs
 - ▶ Prise en compte de vos besoins dans les roadmaps
- Accélérer la résolution de problèmes bloquants
- Interlocuteurs privilégiés avec les clients et les partenaires

IBM positionné comme leader dans le Magic Quadrant du Gartner des Mobile Application Development Platforms

Magic Quadrant for Mobile Application Development Platforms

Ian Finley, Van L. Baker, Ken Parmelee, David Mitchell Smith, Ray Valdes, Gordon Van Huizen
Aug 7, 2013

“As unprecedented numbers of enterprises build mobile applications, the mobile application development platform market continues to grow and evolve rapidly.”

This Magic Quadrant graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The full report is available at <http://ibm.co/13TU2Dm>

Figure 1. Magic Quadrant for Mobile Application Development Platforms



Source: Gartner (August 2013)

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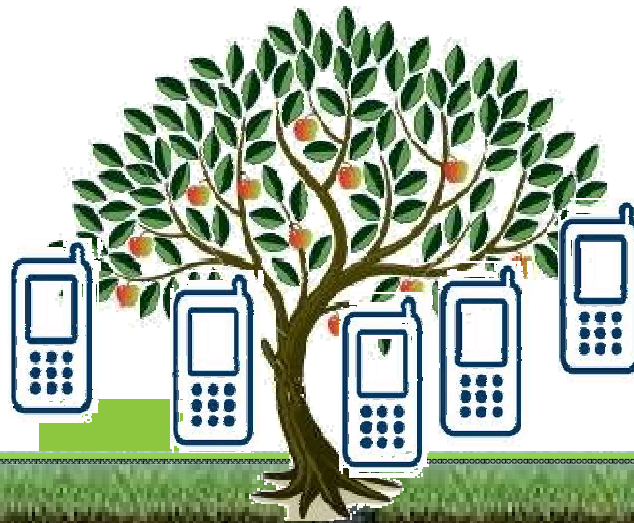
IBM MobileFirst: portfolio complet pour accompagner une stratégie mobilité



Le portfolio applicatif IBM MobileFirst



Worklight est une Mobile Enterprise Application Platform



Apps

30%

70%

Mobile Application Platform

Dévt et tests
cross
plateformes

Offline sync

Geo-fencing

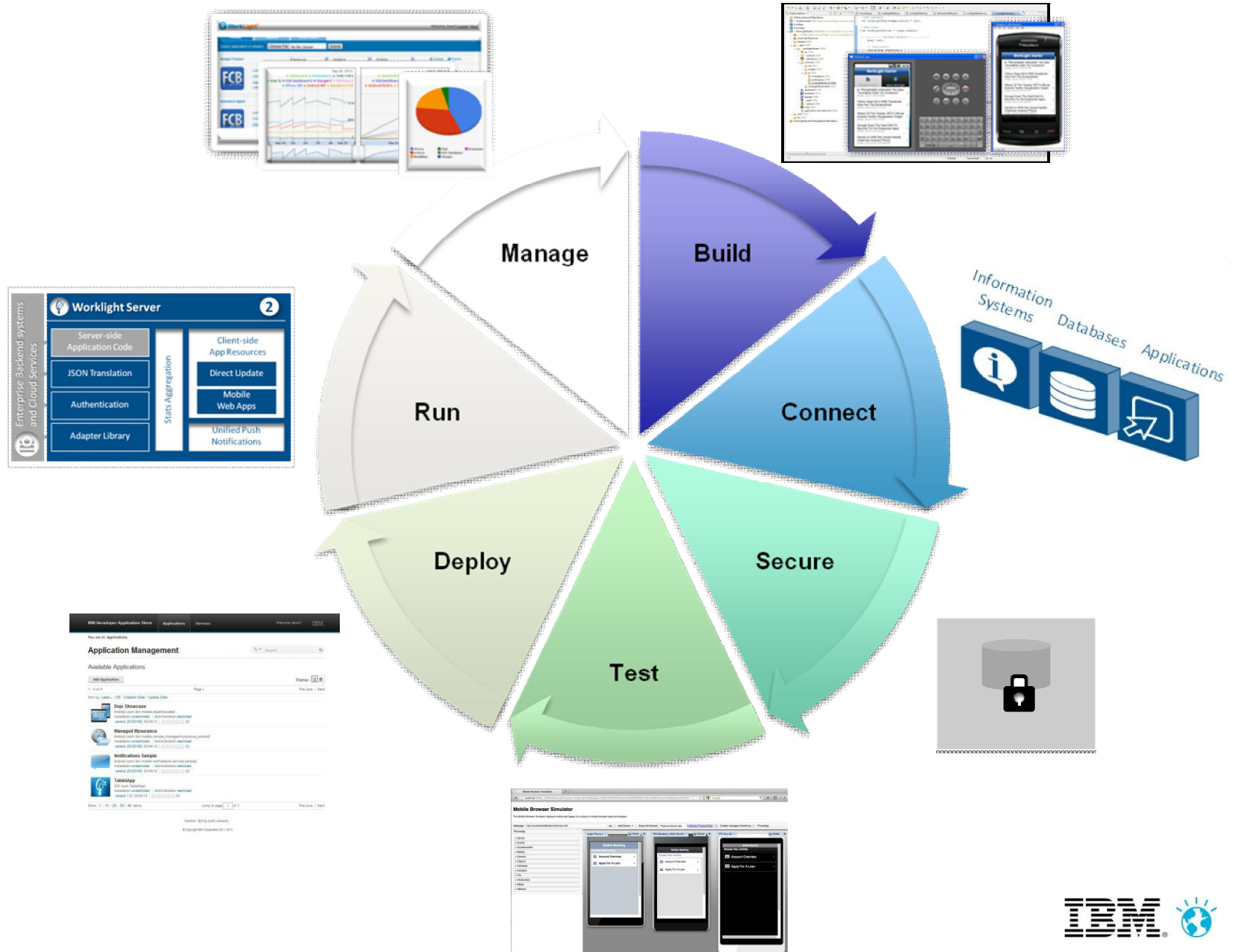
Sécurité

Direct Update

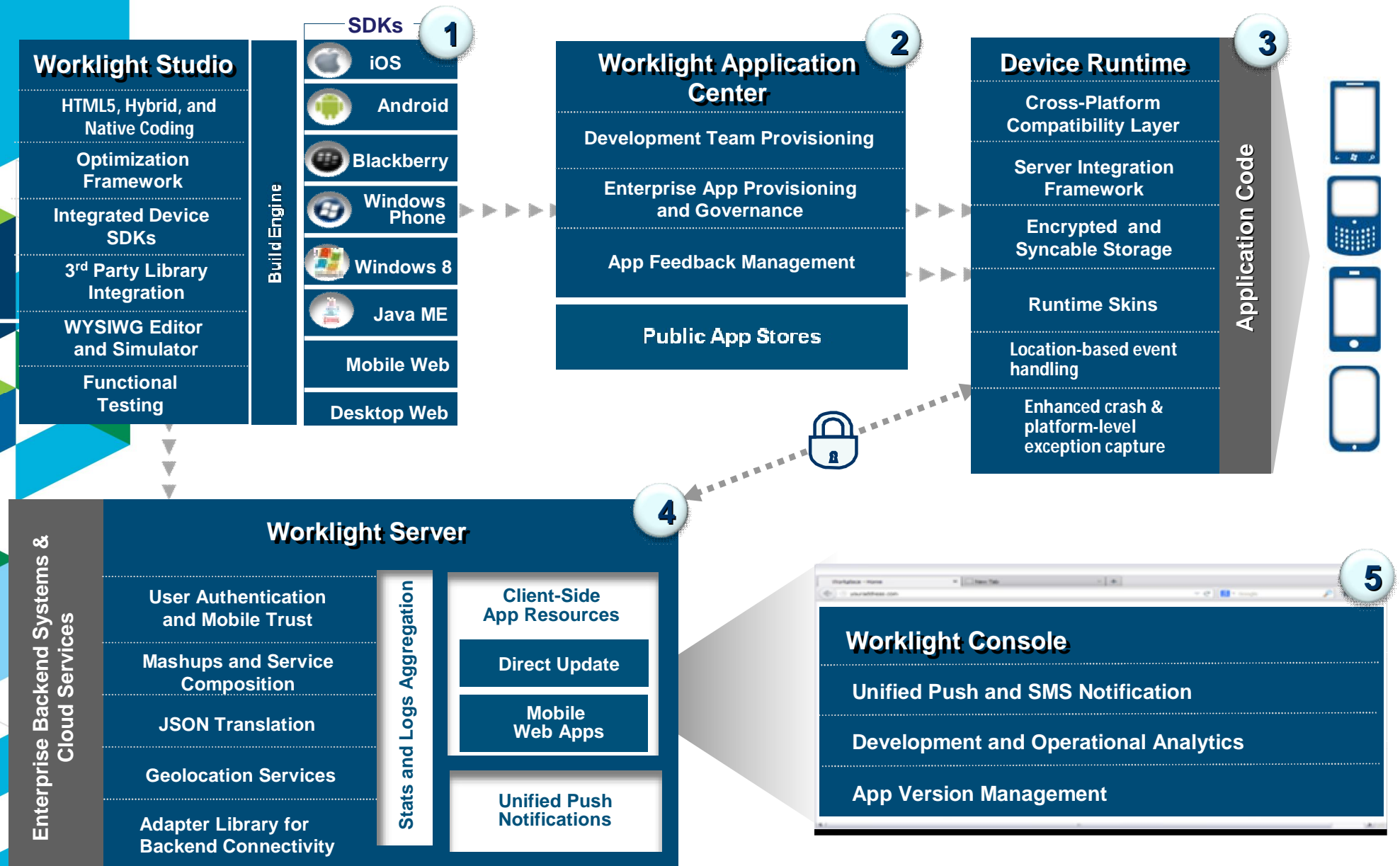
Intégration
rapide

Push
Notifications

Worklight : Mobile Enterprise Application Platform



Composants Worklight



Le support de plusieurs modes de développement

Browser Access

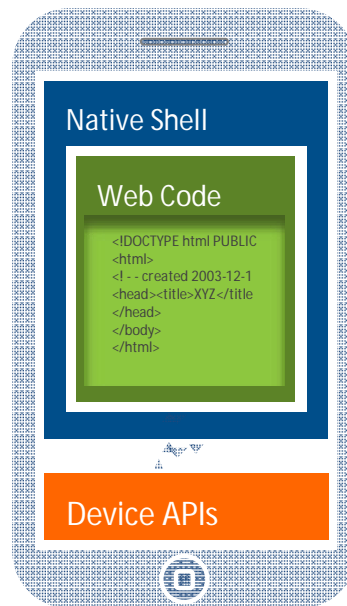
Écrites en HTML5, JavaScript et CSS3. Rapides et peu coûteuses à développer, mais moins puissantes que natives.



Browser Access

Hybrid Apps - Web

Code HTML5 et bibliothèques runtime Worklight intégrés dans l'application et exécutés dans un conteneur natif.

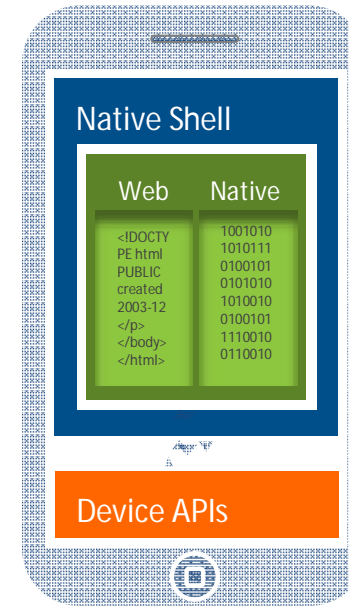


Device APIs

Downloadable

Hybrid Apps - Mixed

Code web complété par code natif pour des besoins particuliers et une expérience utilisateur maximale.

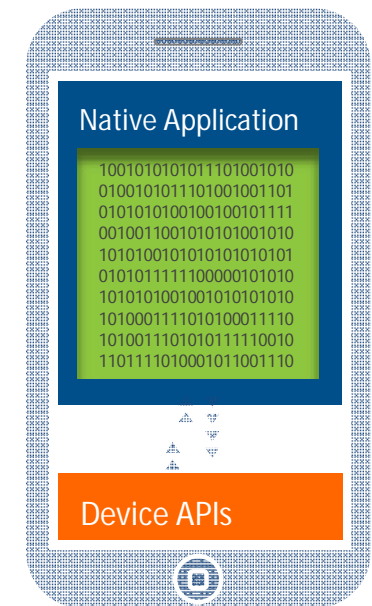


Device APIs

Downloadable

Native Apps

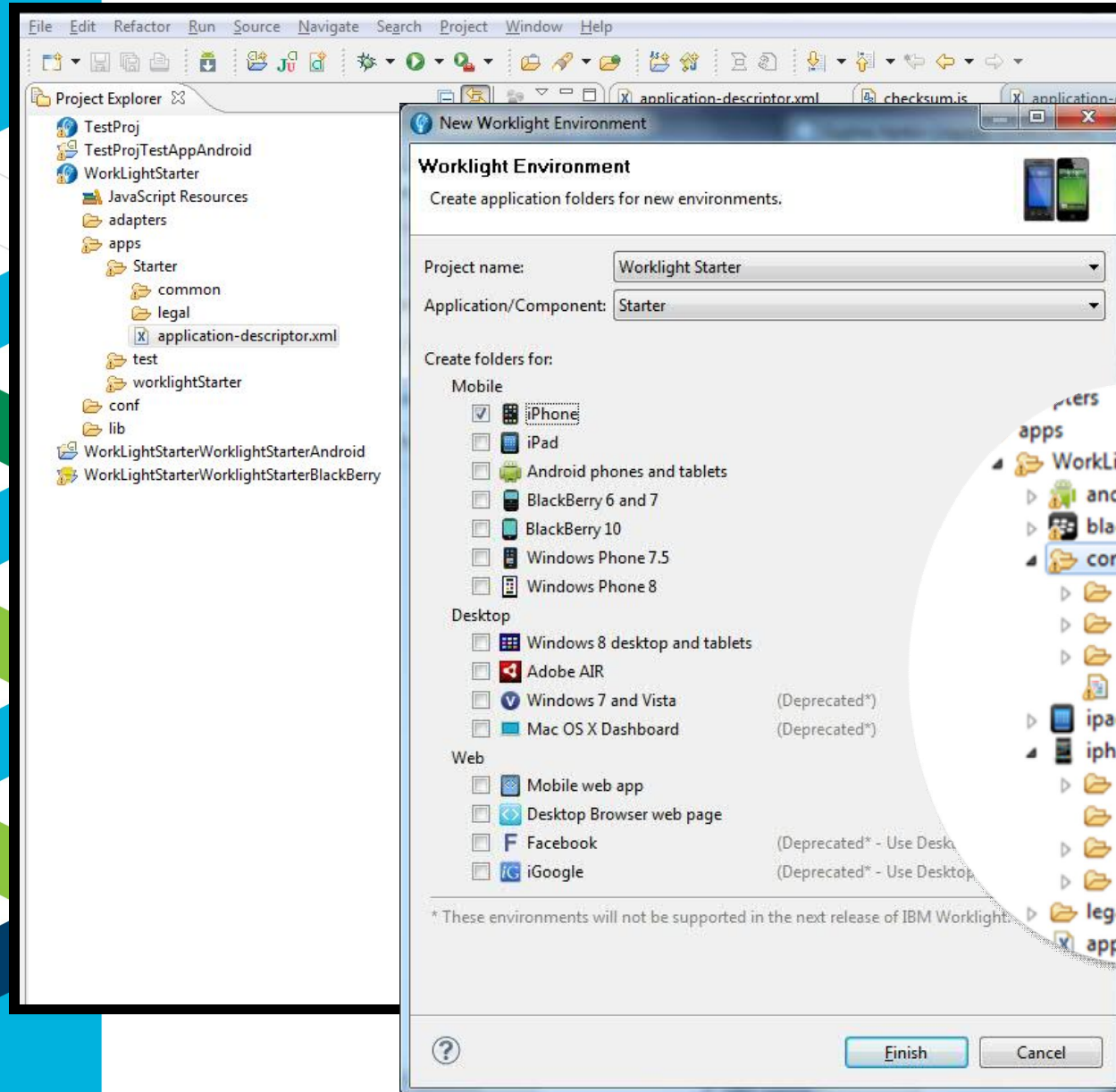
Code par plateforme. Nécessite expertise pointue, coûteux et long à développer. Permet une meilleure expérience utilisateur.



Device APIs

Downloadable

Worklight Studio : optimisation du code



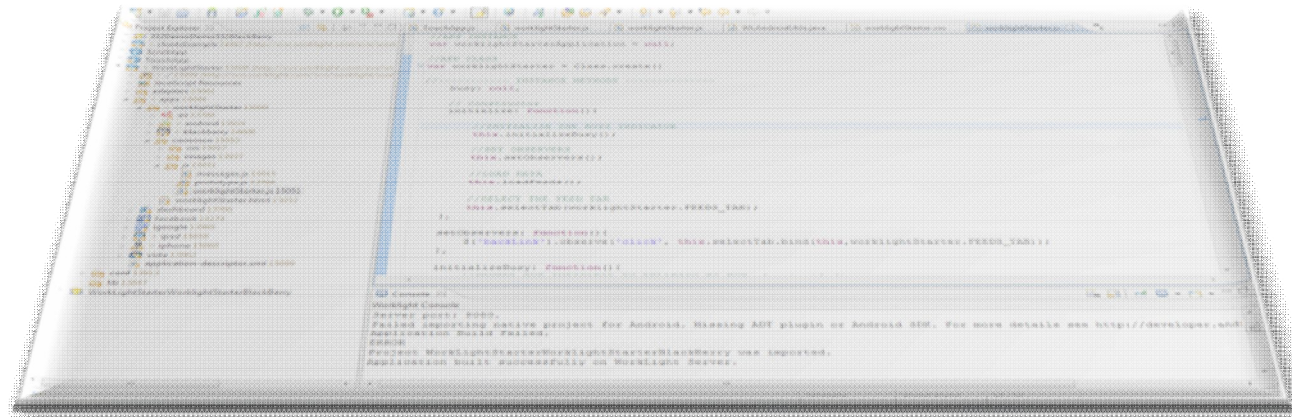
- Un tronc commun de code
- Code optimisé pour chaque OS cible maintenu séparément

Une plateforme ouverte sur les standards

Compatibilité avec les principaux frameworks et outils HTML5 et javascript du marché



APACHE
CORDOVA™



Développement web/hybride WYSIWYG (HTML, jQuery, Dojo)

Build

Change scale, orientation, and design/source split direction for optimal editor layout

Select from a range of device form factors

jQuery Mobile or Dojo Mobile widgets in the palette

The screenshot displays an IDE interface for developing mobile applications. The central area shows a preview of a mobile application titled "News Center" on a tablet device. Below the preview, the source code is visible, showing HTML and JavaScript code for a news application. The interface includes a Project Explorer on the left, a Mobile Navigation pane, a widget palette on the right, and a Property Sheet for the selected widget. A "Build" button is located in the top right corner.

```

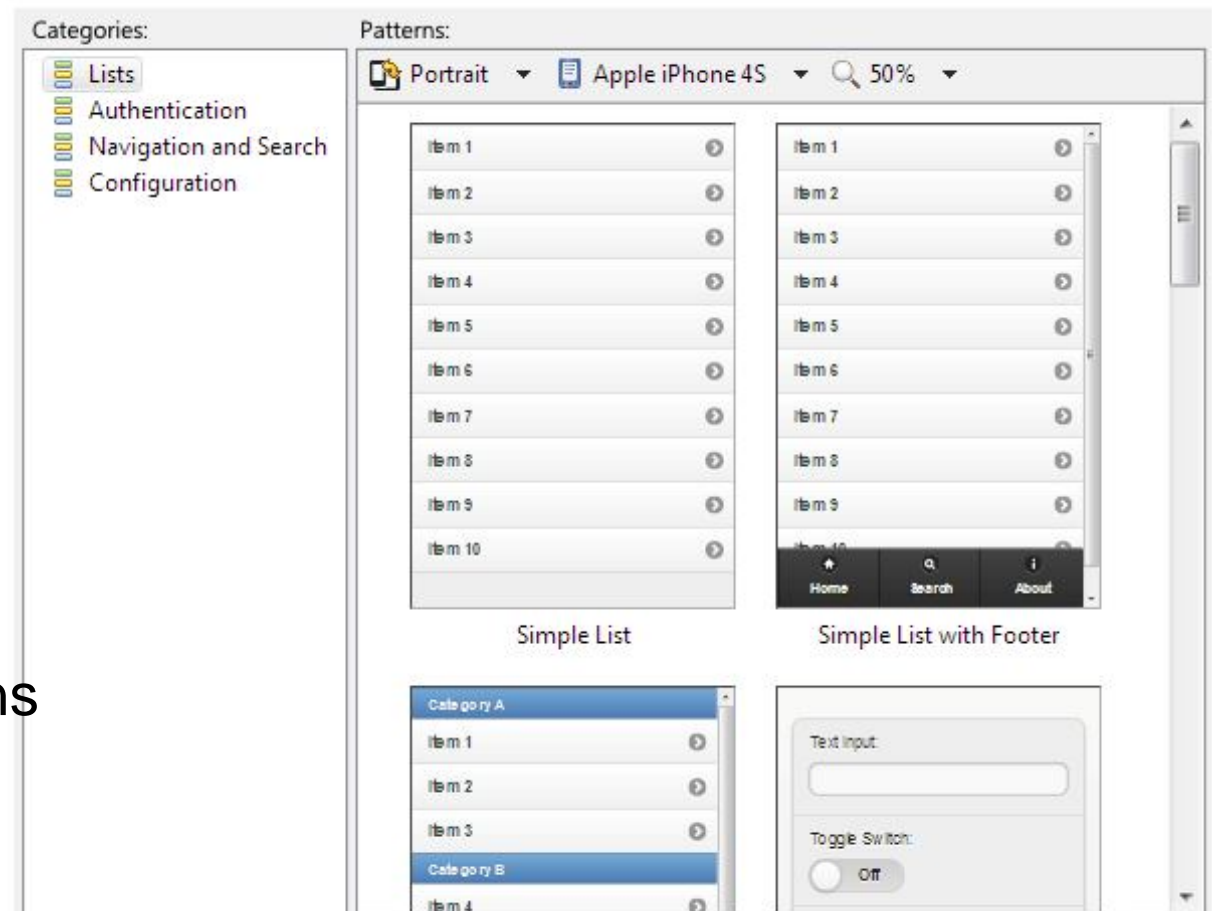
</div>
<a href="#headline" data-role="button" data-icon="arrow-r" data-theme="b" data-corners="tru
<a href="#worldmap" data-role="button" data-icon="arrow-r" data-theme="b" data-mini="true">
<a href="#us" data-role="button" data-icon="arrow-r" data-theme="b" data-mini="true">U.S Ne
<a href="#local" data-role="button" data-icon="arrow-r" data-theme="b" data-mini="true">Loc
</div>
<div data-role="footer" data-position="fixed">
<div data-role="navbar">
  <a href="#facebook"></a> <a
    href="#twitter"></a> <a
    href="#youtube"></a>
</div>
<a href="#" data-role="button" data-icon="gear" class="ui-btn-
</div>
</div>
```

Create and manage instances of dojo mobile "view" or jQuery mobile "page"

Property sheets for dojo mobile and jQuery mobile widgets

Des modèles d'écrans pour accélérer les développements

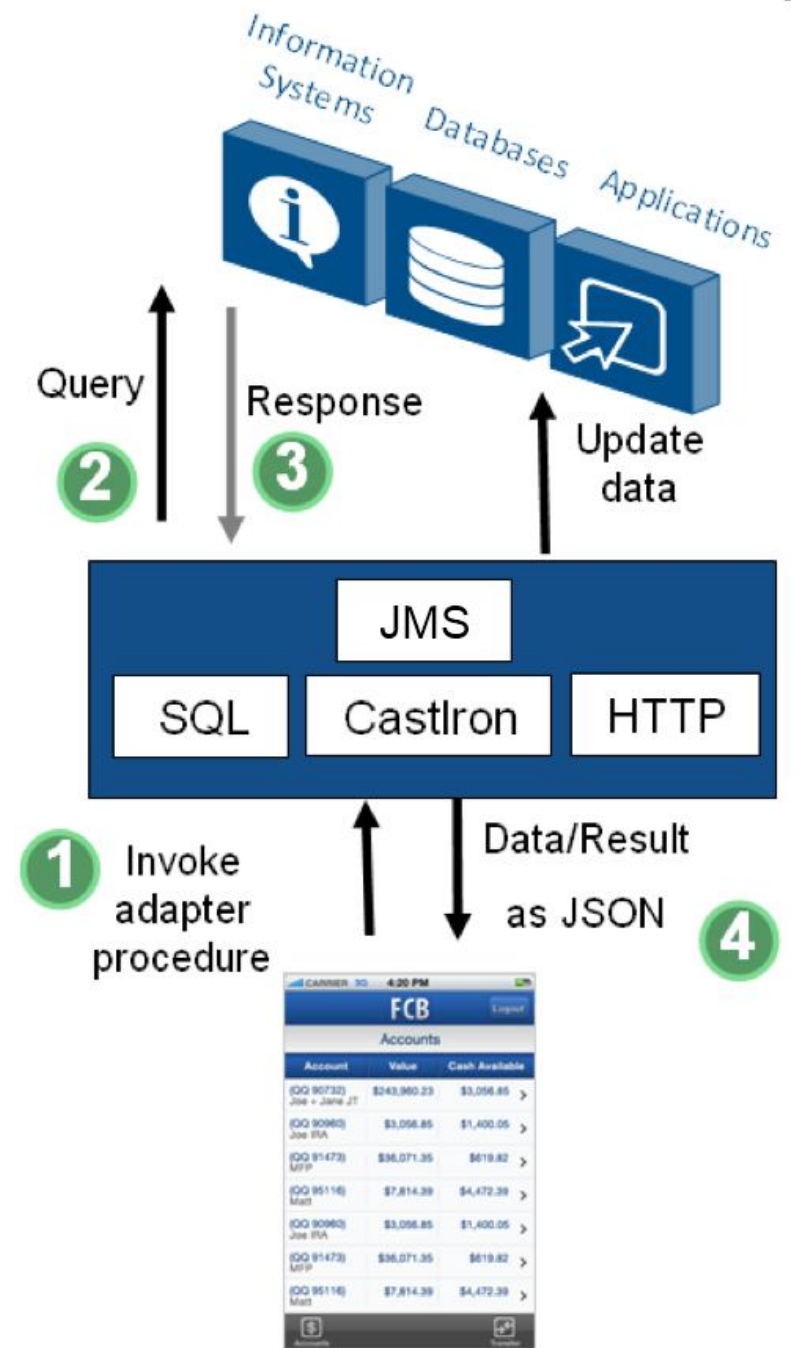
- Plus de 40 modèles sur étagère
- Navigation, recherche, listes et tableaux, authentification, panneaux de configuration
- Pour jQuery Mobile et Dojo Mobile
- Prévisualisation dans l'IDE



Connectivité au travers d'adaptateurs

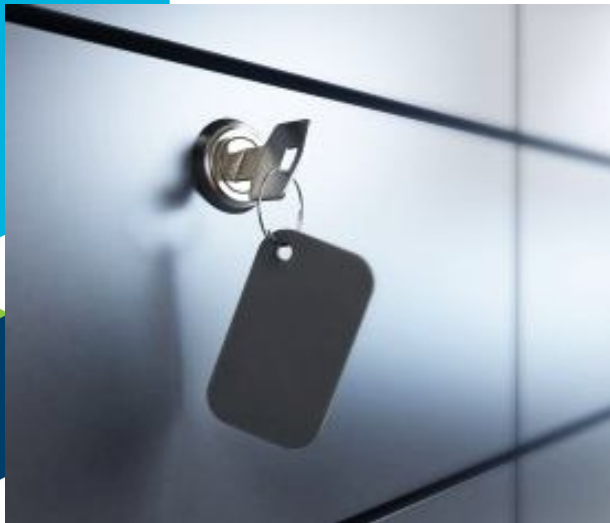


- ❑ Développement rapide en Javascript
- ❑ Transformation XML → JSON automatique
- ❑ Gestion des transactions
- ❑ Gestion de la sécurité
- ❑ Scalabilité
- ❑ Possibilité de recomposer des services

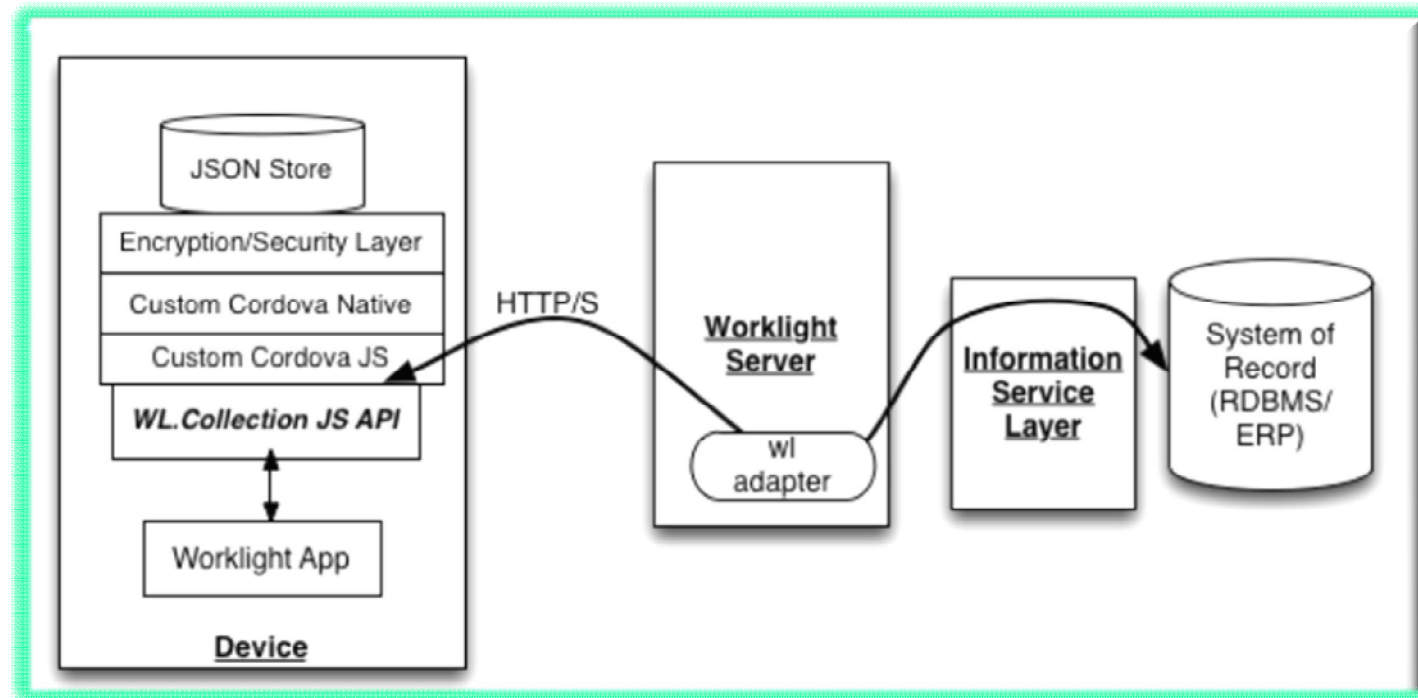


Base de données JSON embarquée

Connect



- Travail en mode déconnecté
- Encryptage possible
- Synchro serveur → client: via adaptateurs
- Synchro client → serveur: stockage des actions d'écritures pour exécution différée



Une API de Géo-localisation

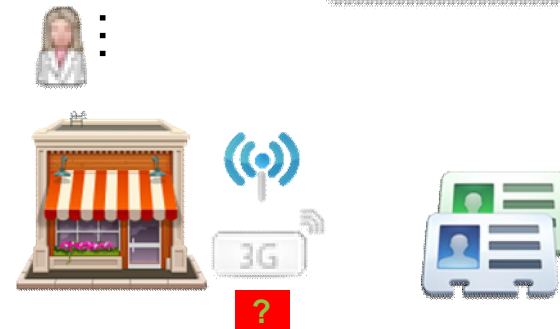
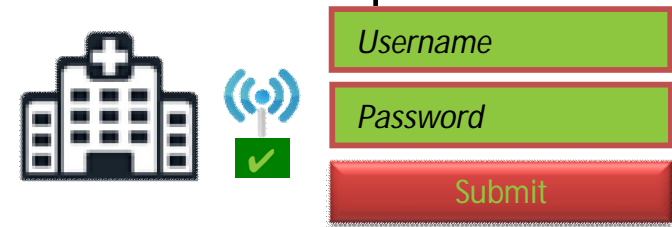
Enregistrement autom. à l'hôtel

Guidage des camions vers dépôts



Expérience d'achats personnalisée

Sécurité dépendante de la localisation en milieu hospitalier



Des fonctions de sécurité avancées



Protection des données sur le terminal

Forcer des mises à jour de sécurité



Des contraintes au niveau de l'entreprise

Des mécanismes d'authentification et d'autorisation robustes

Sécurité applicative

Un simulateur mobile web pour le développement



Mobile Browser Simulator

The Mobile Browser Simulator displays mobile web pages in a variety of mobile browser sizes and shapes.

Webpage: Go Add Device Scale All Devices: Physical device size Calibrate Physical Size Enable Useragent Switching PhoneGap

PhoneGap

- Device
- Events
- Accelerometer
- Battery
- Camera
- Capture
- Compass
- Contacts
- File
- Geolocation
- Media
- Network

Apple iPhone 4 Rotate

RIM Blackberry 9550 Storm2 Rotate

HTC Evo 4G Rotate

Mobile Banking

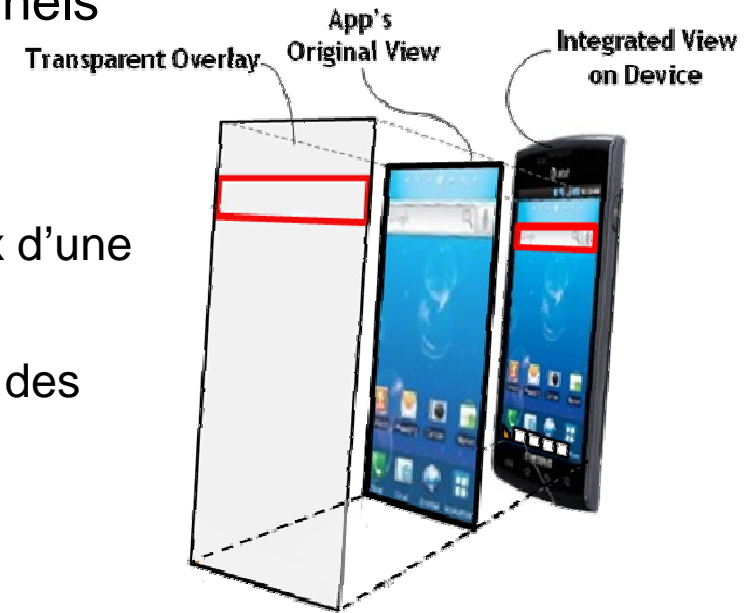
Choose Your Activity

- Account Overview
- Apply For A Loan

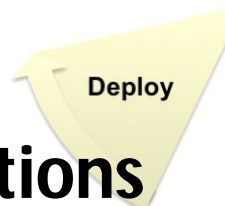
- Extract public signing key
- Validate
- Show in Remote Systems view
- Run As
 - 1 Build All and Deploy
 - 2 Build Environment and Deploy
 - 3 Preview
- Debug As
- Profile As
- Team

Gestion intégrée des tests fonctionnels

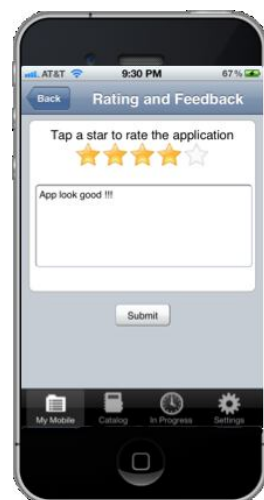
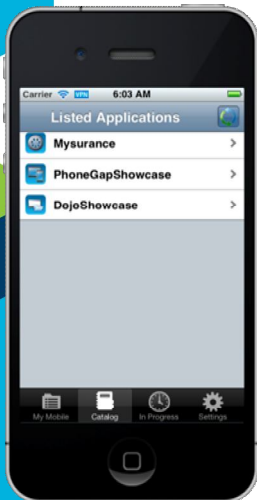
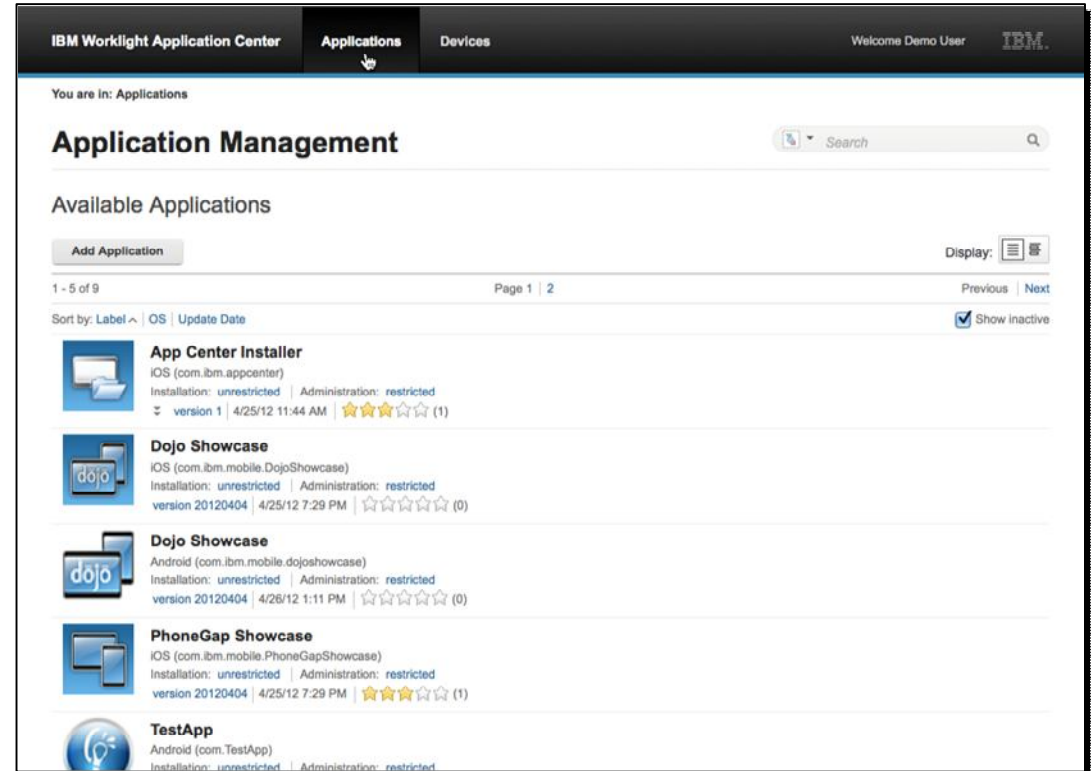
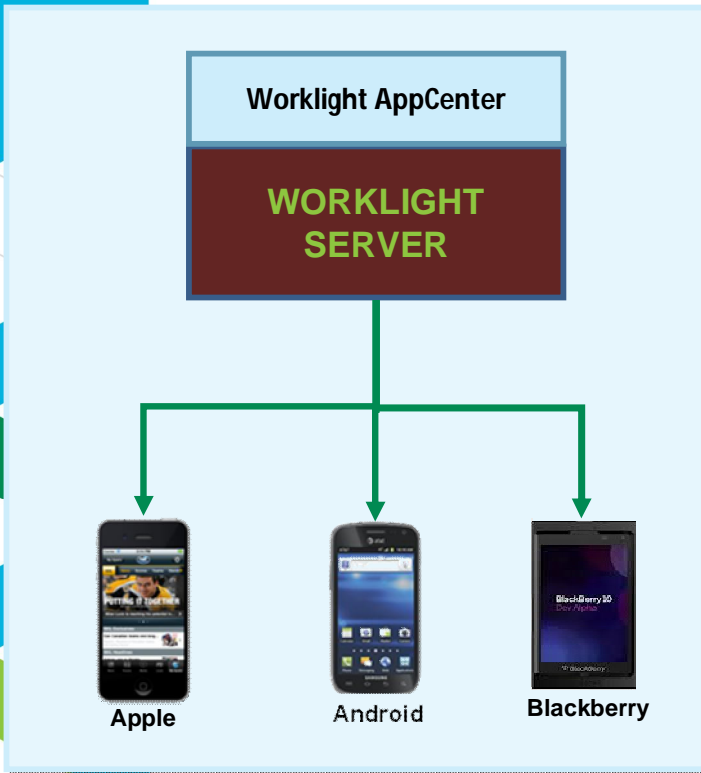
- Couverture complète des tests fonctionnels
 - Support d'Android et iOS, natif et hybride
 - Enregistrement et rejeu sur les terminaux
 - Un même test couvre plusieurs terminaux d'une même famille
 - Scripts en langage naturel, accessibles à des profils non développeurs
 - Capture des gestes mobiles
 - Instrumentation jQuery et Dojo "aware"
- Un processus en 4 temps
 1. **Enregistrement**
 2. **Edition**
 3. **Playback**
 4. **Reporting**



Améliorer la qualité des applications livrées tout en maîtrisant les délais

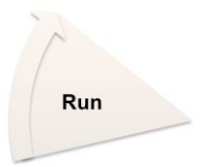


Un application store privé pour diffuser les applications



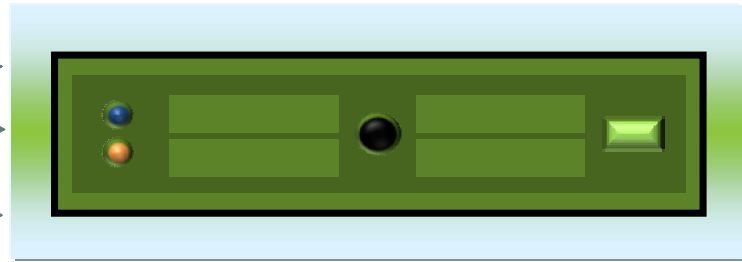
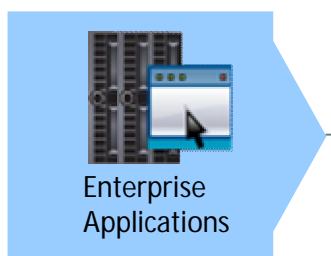
- Contrôle d'accès par ACL, support LDAP
- Visibilité apps déployées par terminal
- Feedback utilisateurs





Worklight Server : middleware mobile

- Distribution des web applications mobiles
- Connectivité vers le back-end:
 - Connectivité client/serveur sécurisée
 - Accès aux ressources de l'entreprise et aux transactions
 - Gestion des authentifications
- Contrôle des applications déployées sur les terminaux:
 - Gestion des versions et désactivation à distance
 - Mise à jour applicative
- Notifications Push unifiées
- Agrégation de statistiques d'utilisation
- Application Store privé
- Géo localisation



Worklight Mobile Enterprise Application Platform



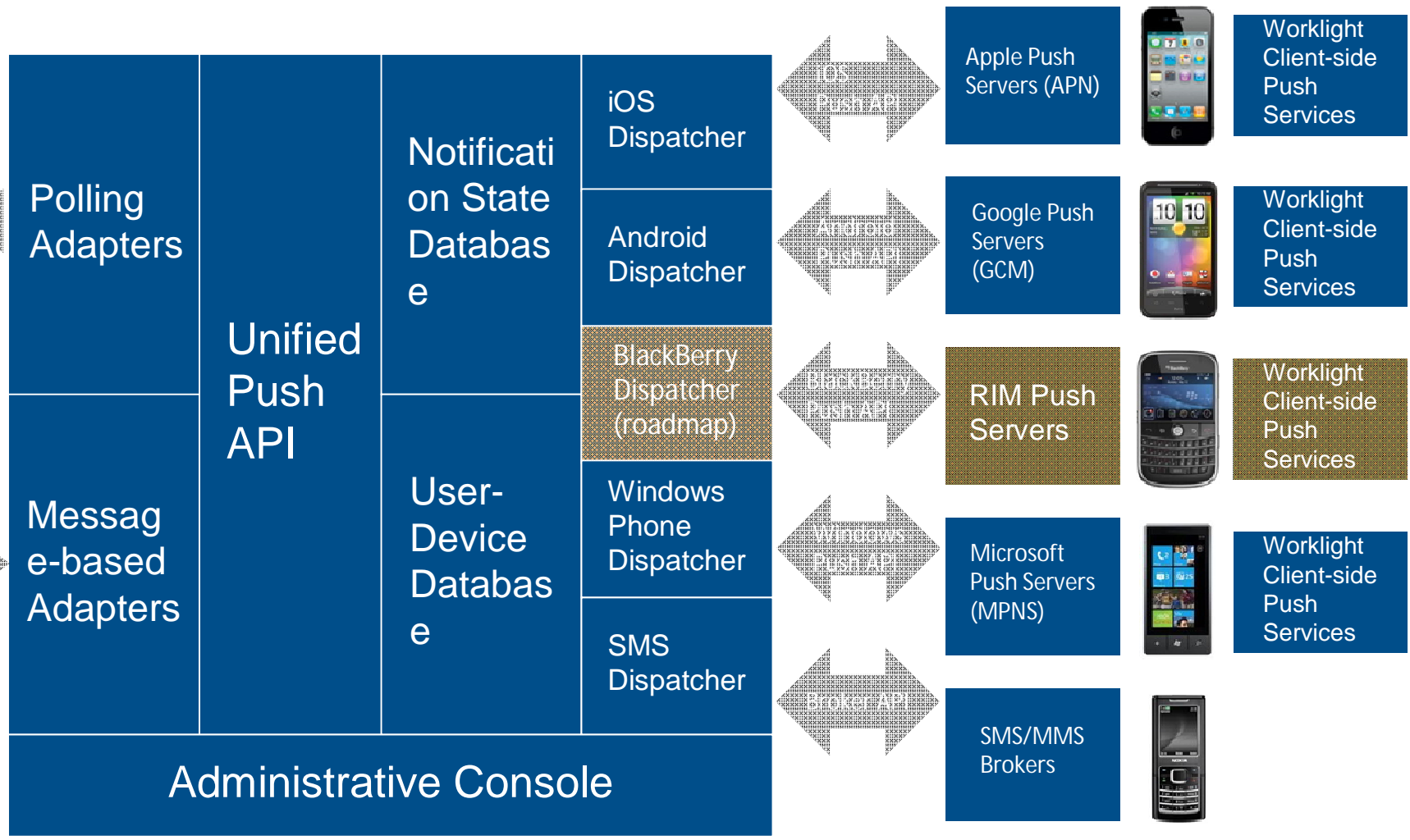


Une gestion unifiée des notifications



Back-end System

Back-end System



Gestion du cycle de vie des apps mobiles

Manage

Catalog Push Notifications Reports Active Users

Deploy application or adapter: Browse_ Submit

MyFeeds

MyFeeds
Preview as: Last updated at: 2012-04-16 08:52

<input type="checkbox"/> iPhone	Version 1.0 ● Active <input type="button" value="v"/>	Authenticity Testing: ⓘ Disabled <input type="button" value="v"/>
<input type="checkbox"/> Lock this version ⓘ		
<input type="checkbox"/> Android	Version 1.2 ● Active <input type="button" value="v"/>	Authenticity Testing: ⓘ Disabled <input type="button" value="v"/>
<input type="checkbox"/> Lock this version ⓘ		
<input type="checkbox"/> Android	Version 1.1 ● Active, Notifying <input type="button" value="v"/>	Authenticity Testing: ⓘ Disabled <input type="button" value="v"/>
Notification text (will appear on the device): <input type="text" value="Version 1.2 has been released"/>		
<input type="checkbox"/> Lock this version ⓘ		
<input type="checkbox"/> Android	Version 1.0 ⓘ Disabled <input type="button" value="v"/>	Authenticity Testing: ⓘ Disabled <input type="button" value="v"/>
Notification text (will appear on the device): <input type="text" value="Upgrade to version 1.1"/>		
URL to app store or market: <input type="text" value="http://www.ibm.com"/>		
<input type="checkbox"/> Lock this version ⓘ		
<input type="checkbox"/> Mobile Web	Version 1.0 Get App URL	

Worklight Starter

3:47 PM

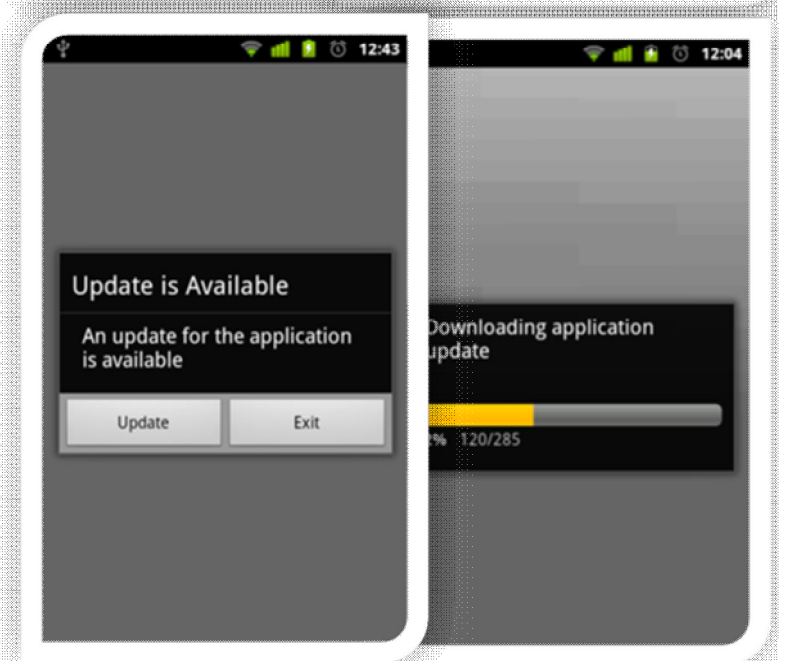
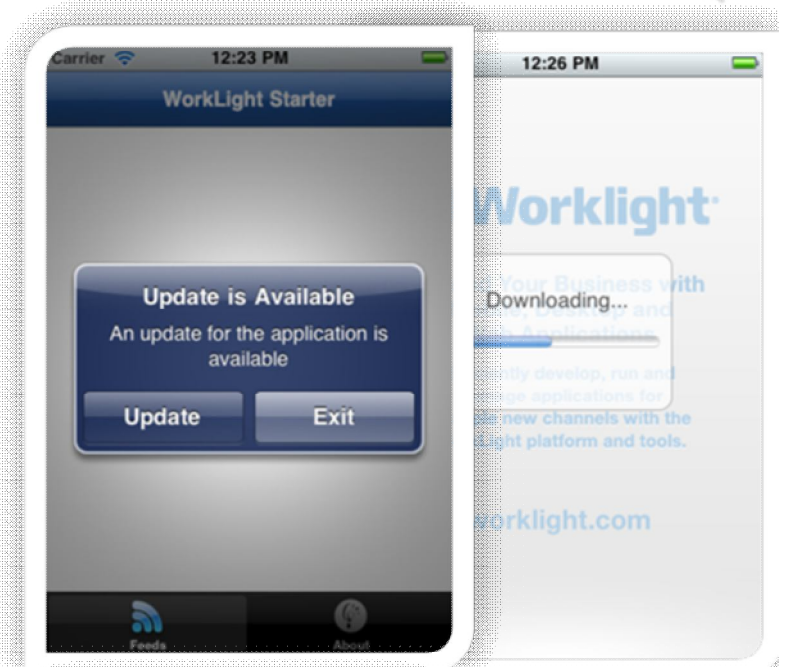
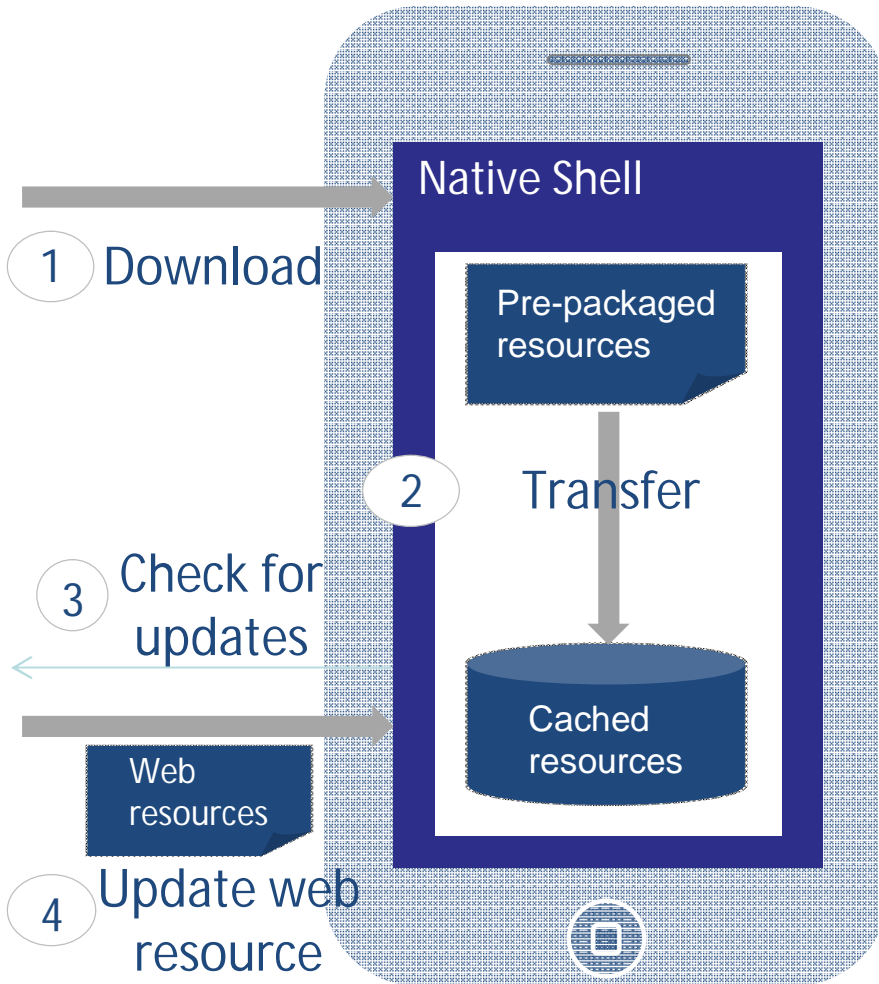
Application Disabled

the version 1.0 is disabled, please update to version 2.0.

Feeds About

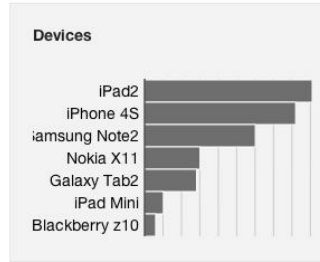
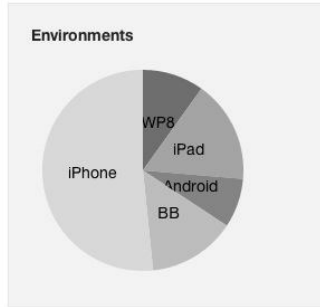
Mise à jour du contenu applicatif

Manage



Des capacités d'analytique opérationnelle

Mobile Analytics Dashboard Search Amaze me! 120 90 30 Today



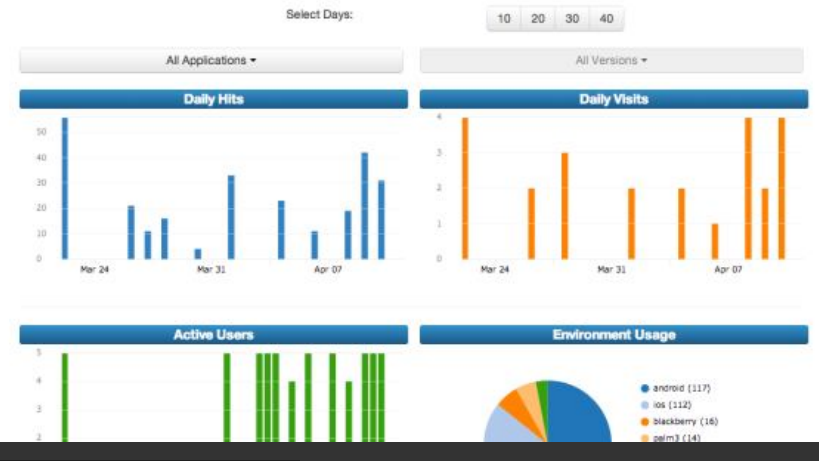
Platform summary

Your mobile platform has **3** servers

Hosting **8** adapters and **11** Apps with **1** in AppStore and **2** in Play

Serving **3711** users in all!

All Applications all Versions for the last 30 days



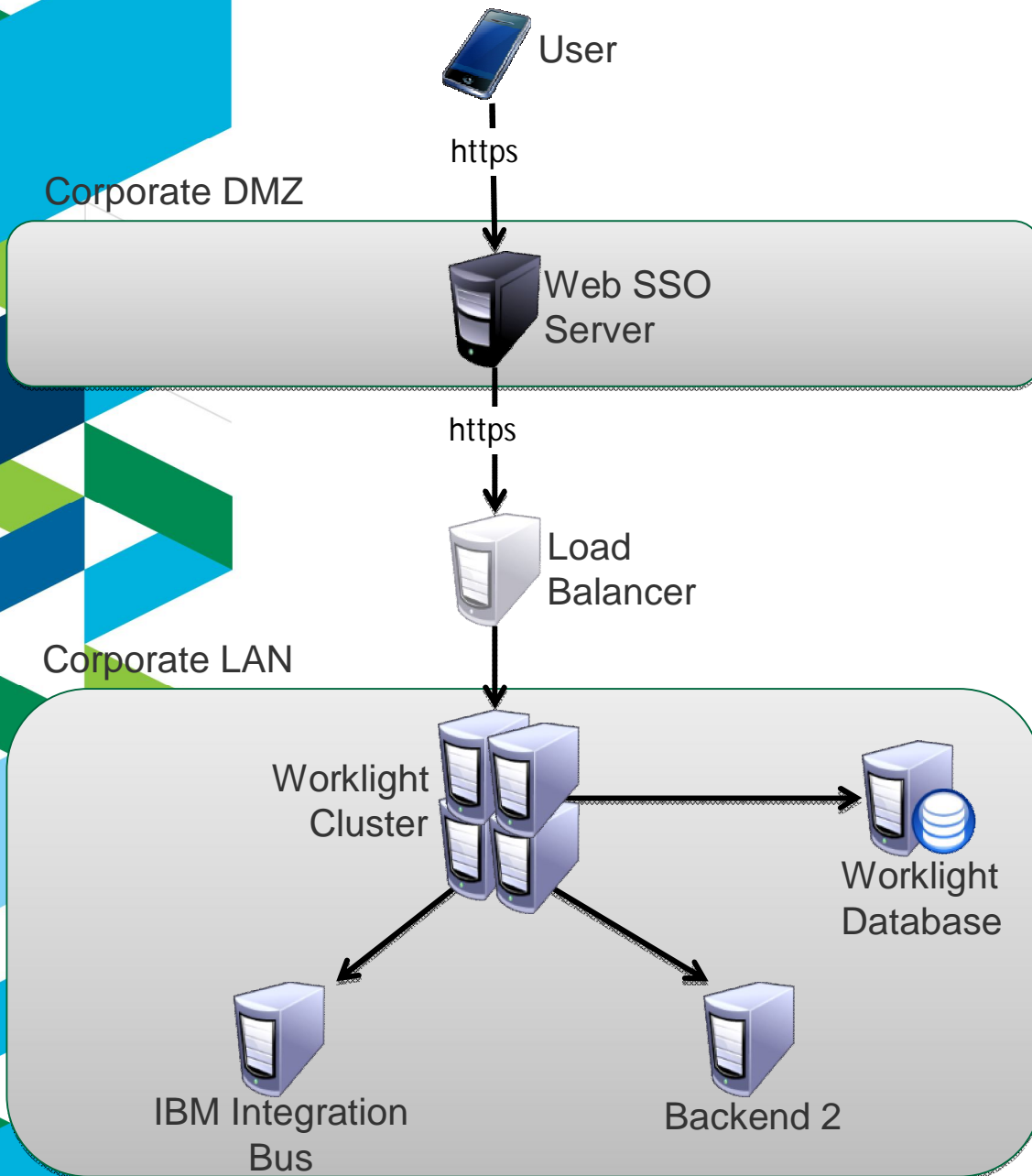
Analytics Dashboard

Server Logs

Filter: Filter

Timestamp	Thread Id	Severity	Source Class	Method	Message	View Stack
4/11/2013 8:01:04 PM	13	SEVERE	com.worklight.integration.notification	AuthenticationContext	AnalyticsServiceImpl.badProperties	View Stack
4/11/2013 8:03:53 PM	1	WARNING	com.worklight.common.util.Generics	getStringProperty	AnalyticsServiceImpl.badProperties	View Stack
4/11/2013 8:03:53 PM	10	INFO	com.worklight.common.util.Generics	APNSMediator	found IP address:9.41.54.148	View Stack
4/11/2013 7:28:34 PM	3	WARNING	com.worklight.common.util.Generics	AuthenticationContext	worklight: FWLSE3005: Application raw reports are disabled.	View Stack
4/11/2013 7:28:34 PM	15	WARNING	com.worklight.com.auth.impl.Auth	getStringProperty	AnalyticsServiceImpl.badProperties	View Stack
4/11/2013 7:28:33 PM	11	SEVERE	com.worklight.com.auth.impl.Auth	getStringProperty	worklight: FWLSE3005: Application raw reports are disabled.	View Stack
4/11/2013 7:28:33 PM	12	INFO	com.worklight.common.util.Generics	APNSMediator	found IP address:9.41.54.148	View Stack
4/11/2013 7:28:32 PM	1	WARNING	com.worklight.common.util.Generics	getStringProperty	found IP address:9.41.54.148	View Stack
4/11/2013 7:28:32 PM	3	WARNING	com.worklight.integration.notification	OCMMediator	AnalyticsServiceImpl.badProperties	View Stack
4/11/2013 7:28:31 PM	8	WARNING	com.worklight.com.auth.impl.Auth	getStringProperty	worklight: FWLSE3005: Application raw reports are disabled.	View Stack
4/11/2013 7:28:31 PM	7	INFO	com.worklight.common.util.Generics	AuthenticationContext	AnalyticsServiceImpl.badProperties	View Stack
4/11/2013 7:28:29 PM	9	SEVERE	com.worklight.common.util.Generics	APNSMediator	worklight: FWLSE3005: Application raw reports are disabled.	View Stack

IBM Worklight – Topologie typique



Device Runtime

PhoneGap

- Cross Platform Technology

Worklight

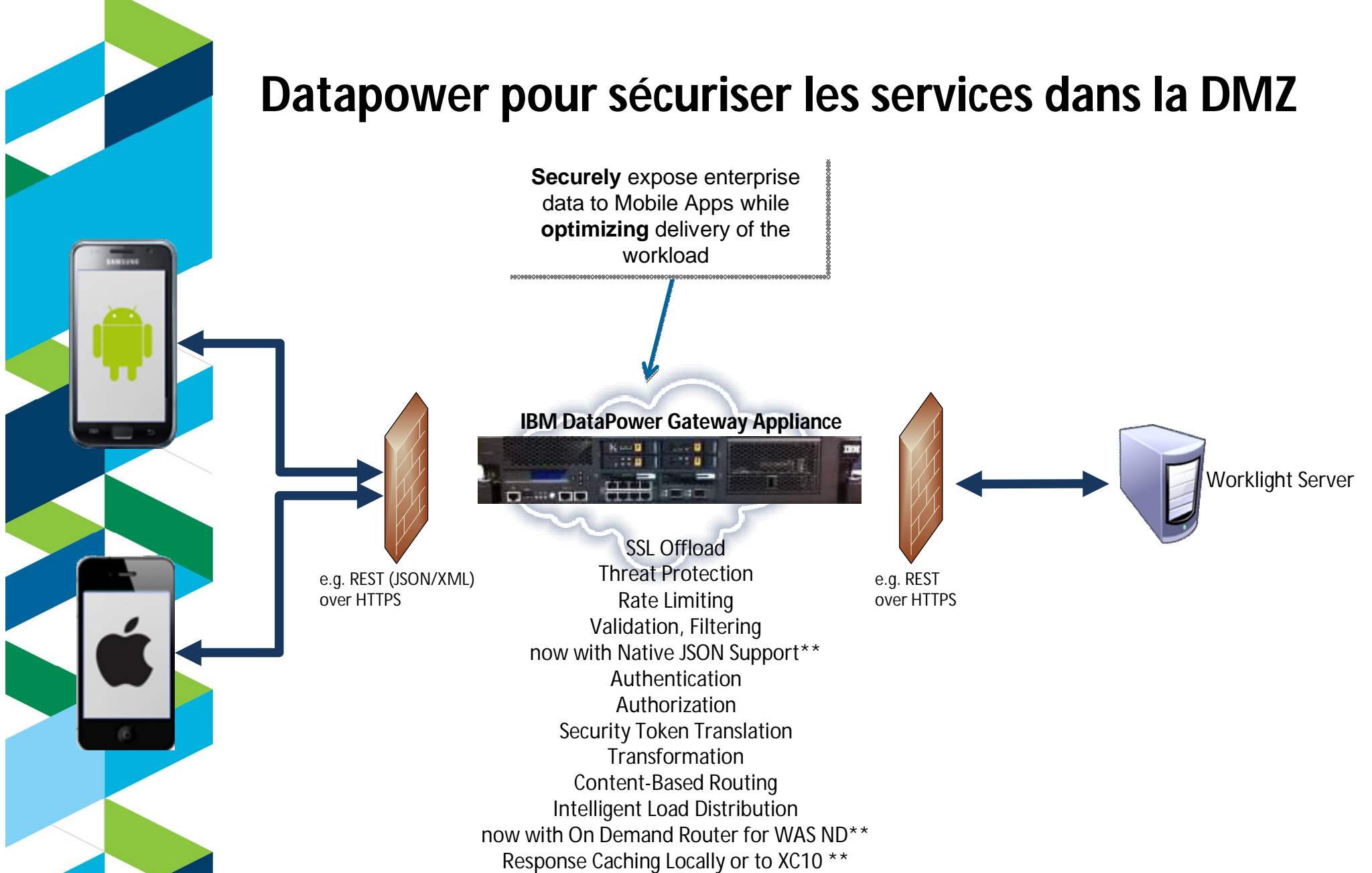
- Security and Authentication
- Back-end Data Integration
- Post-deployment control and Diagnostics

Application Code

Worklight Server

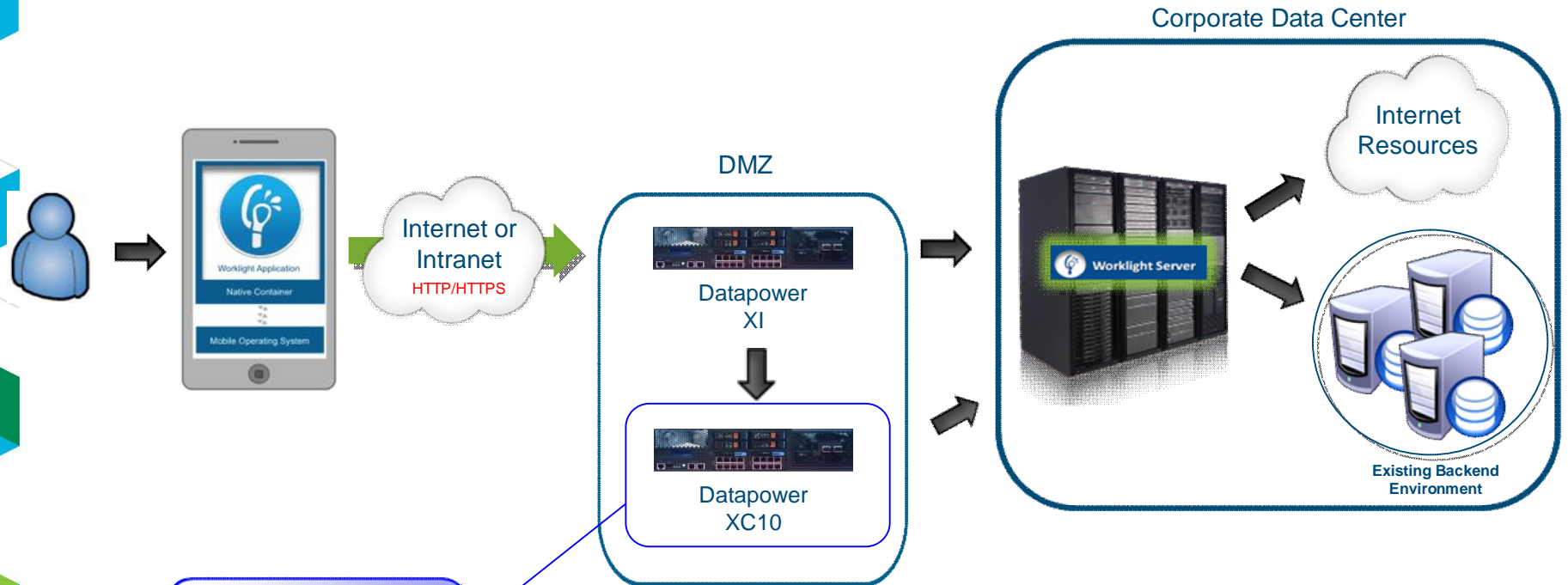
Server-side Application Code	Stats Aggregation	Client-side App Resources
JSON Translation		Direct Update
Authentication		Mobile Web Apps
Adapter Library		Unified Push Notifications

Datapower pour sécuriser les services dans la DMZ



Enhanced form-based authentication support for quick integration with **Worklight applications** running on mobile devices **
Ready-to-use configuration pattern as reverse proxy & security policy enforcement point in front of **Worklight Server****

Gestion de cache pour optimiser les performances Au niveau de la DMZ

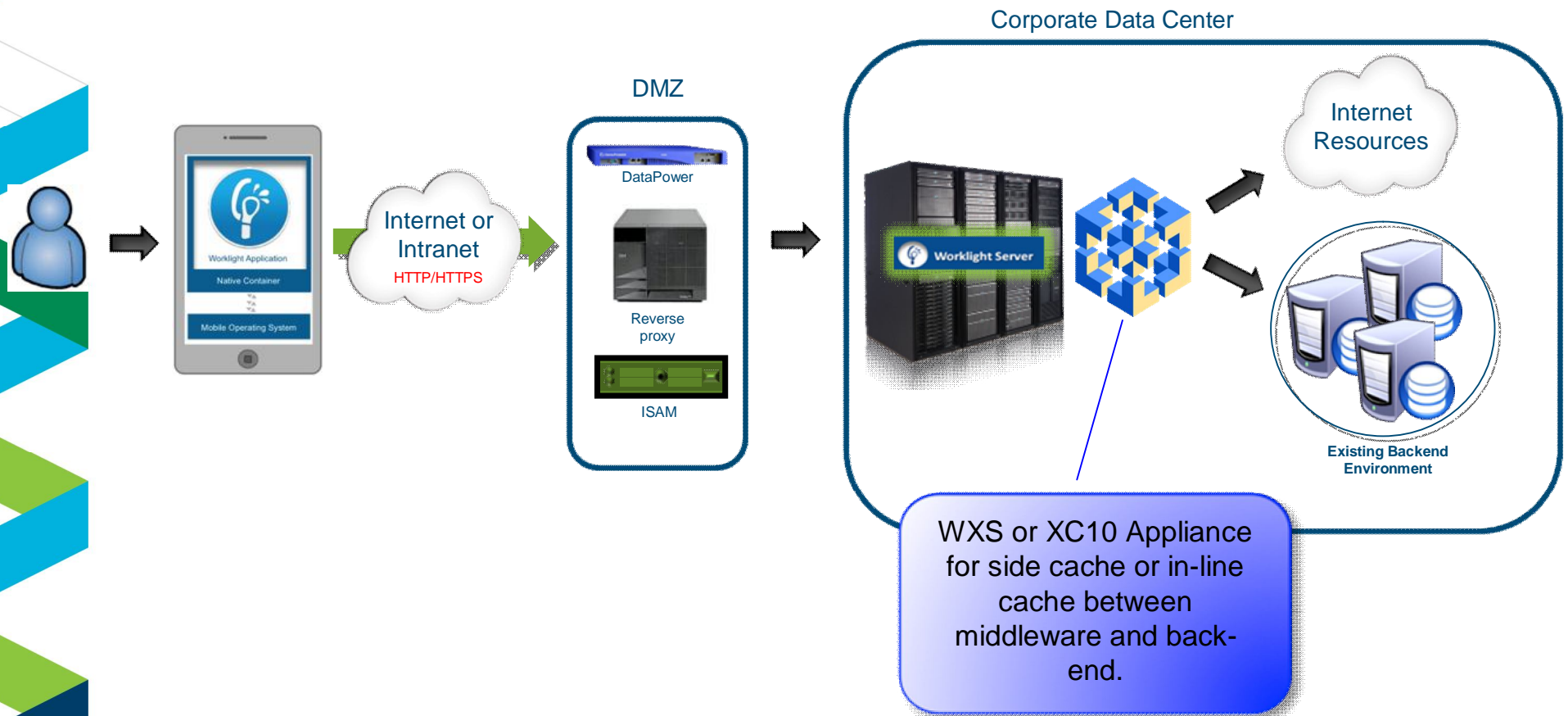


XC10 Appliance to
cache mobile
request.

Typical 3-tier topology

- DMZ based proxy
- Caching REST request
- Worklight servers in data center
- Corporate backend environments

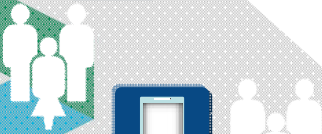
Gestion de cache pour optimiser les performances Sur la couche middleware



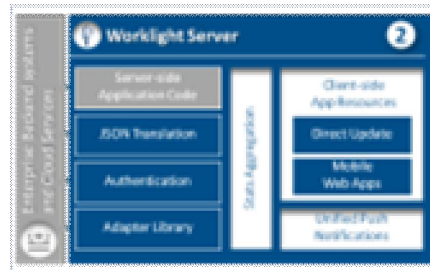
IBM Integration Bus : tirer partie du SI

4 accélérateurs mobiles prêts à l'emploi via IIB

- ✓ Mobile enable any enterprise service in 2 clicks !
- ✓ Build robust solutions with integrated caching & security
- ✓ Push data to mobile users from enterprise applications
- ✓ Create end-to-end mobile solutions for Microsoft .NET



Worklight Server



IBM
Integration Bus
Version 9

Third Party
Notification
Server
(Google,
Apple, RIM,
Microsoft)



SOA



Microsoft
Dynamics
.NET



IBM
System z



Data



Packaged
Applicator



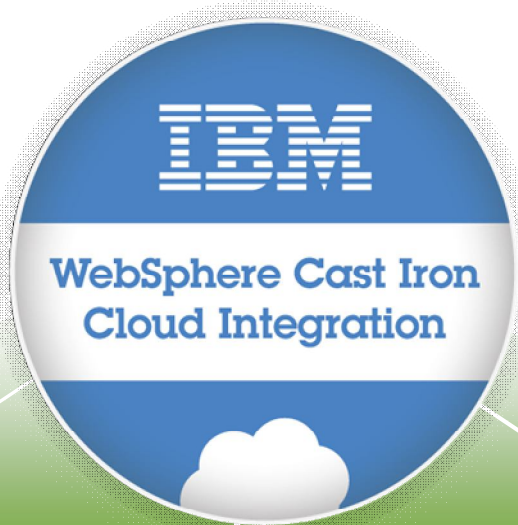
MQ
JMS



Files



Cast Iron : intégrer facilement les applications Cloud



Complete Flexibility



Cast Iron Cloud2™



Physical Appliances



Virtual Appliances

Total Connectivity



Complete Reusability



TIP Exchange



TIP & Connector Development Kit

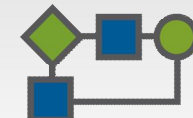


TIP Community

For All Types of Projects



UI Mashups



Process Integration



Data Migration

3 façons de démarrer avec IBM

1

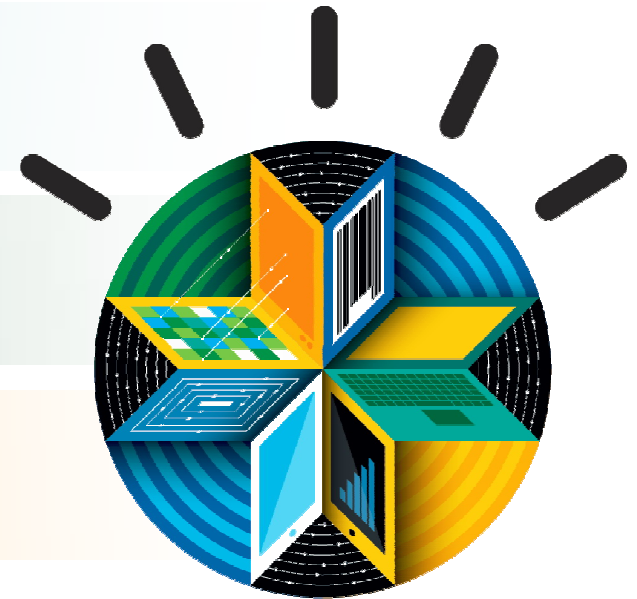
Download the free IBM Worklight Developer Edition: ibm.co/worklightde

2

Talk with your IBM representative or Business Partner to find the right next step for you

3

Learn more at www.ibm.com/mobile-enterprise
Interact with us @ibmmobile and #ibmmobile



Plus les PoT Worklight organisés tous les mois!

<http://www-05.ibm.com/fr/events/tec>







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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.
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