



# 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**

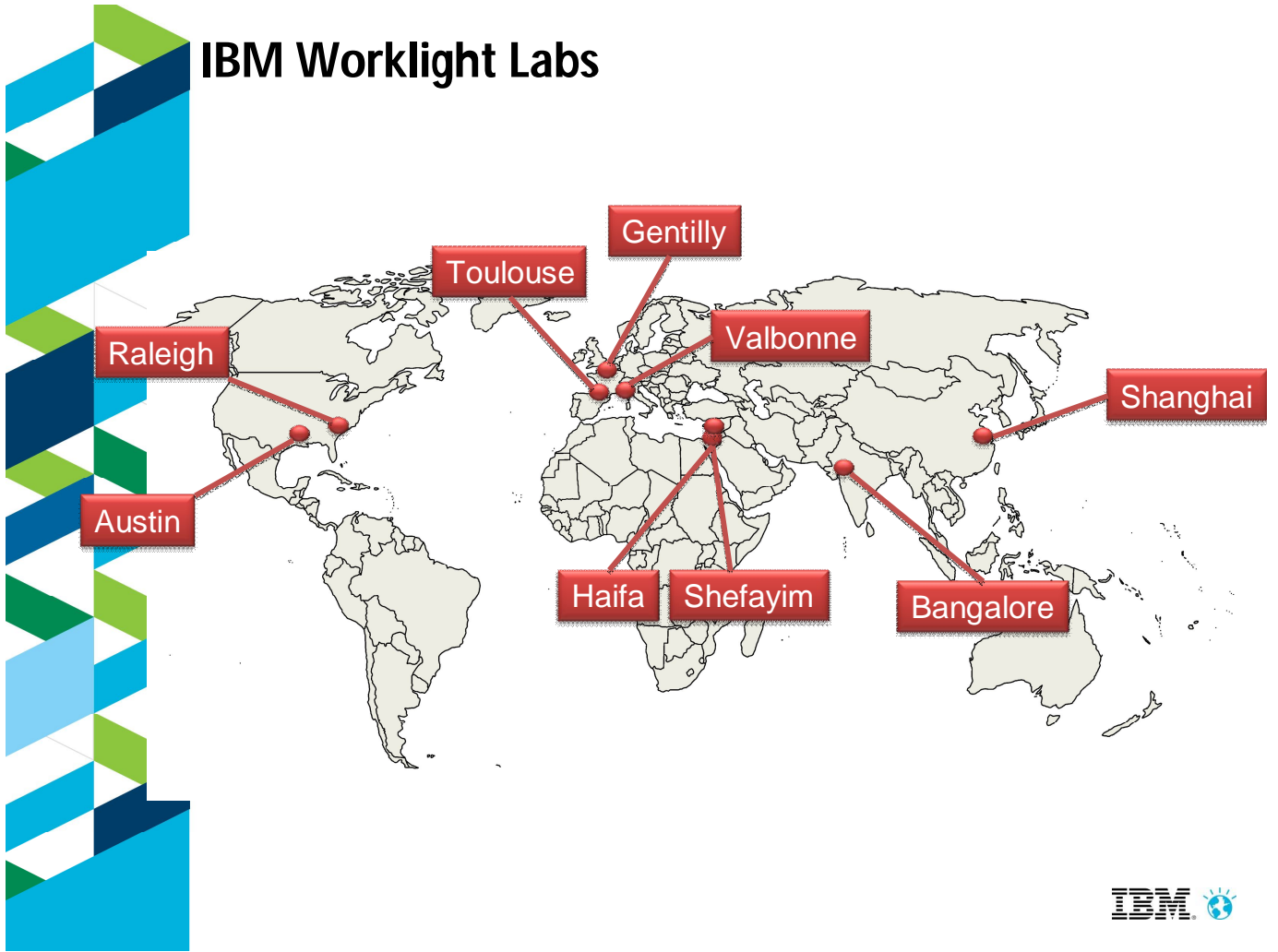
Technical Sales & Solutions

**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



## Bénéficier 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)

As of August 2013

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## IBM MobileFirst: portfolio complet pour accompagner une stratégie mobilité

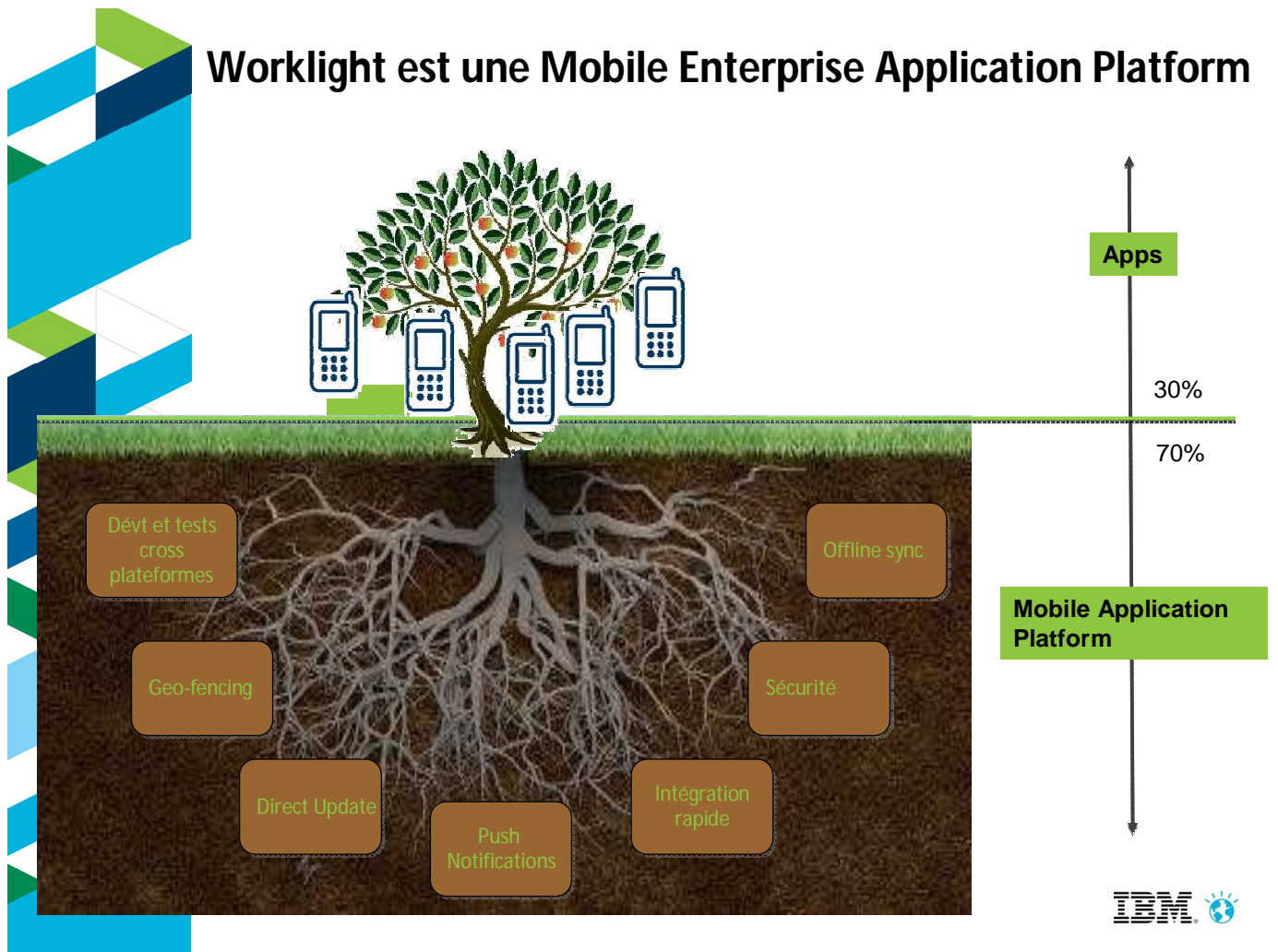


## Le portfolio applicatif IBM MobileFirst



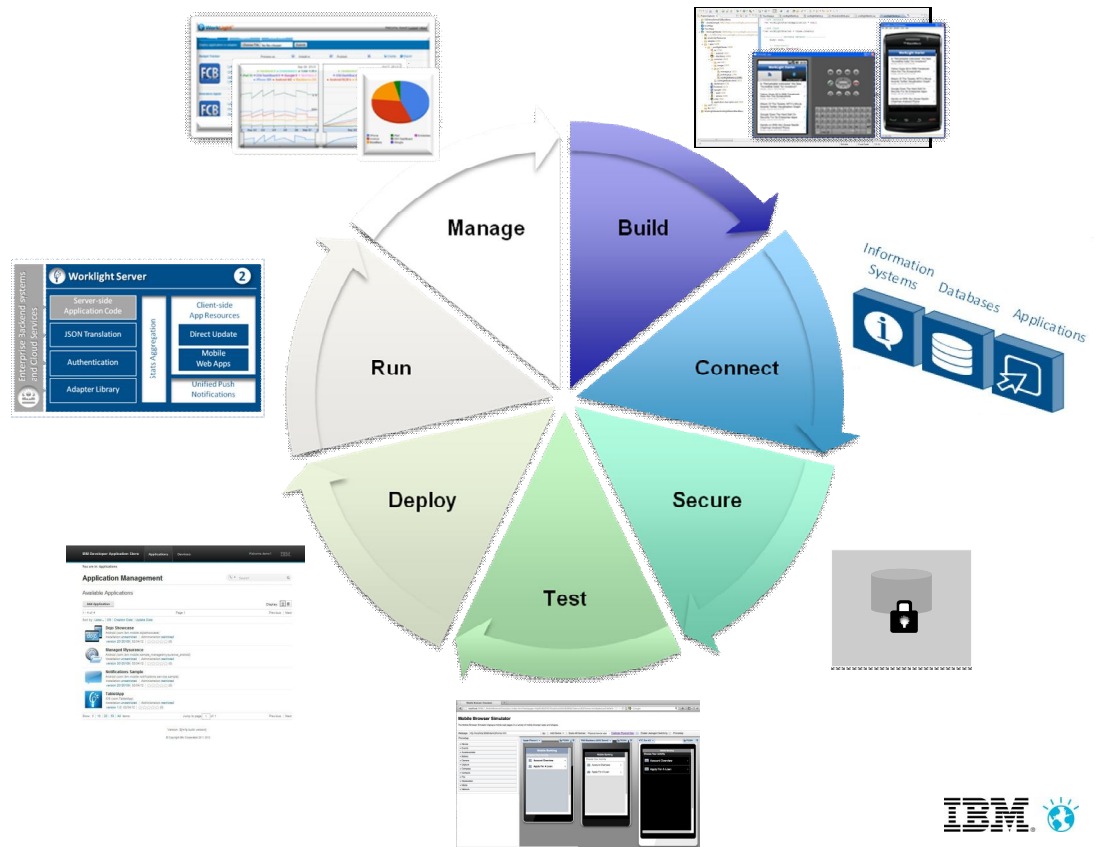


# Worklight est une Mobile Enterprise Application Platform

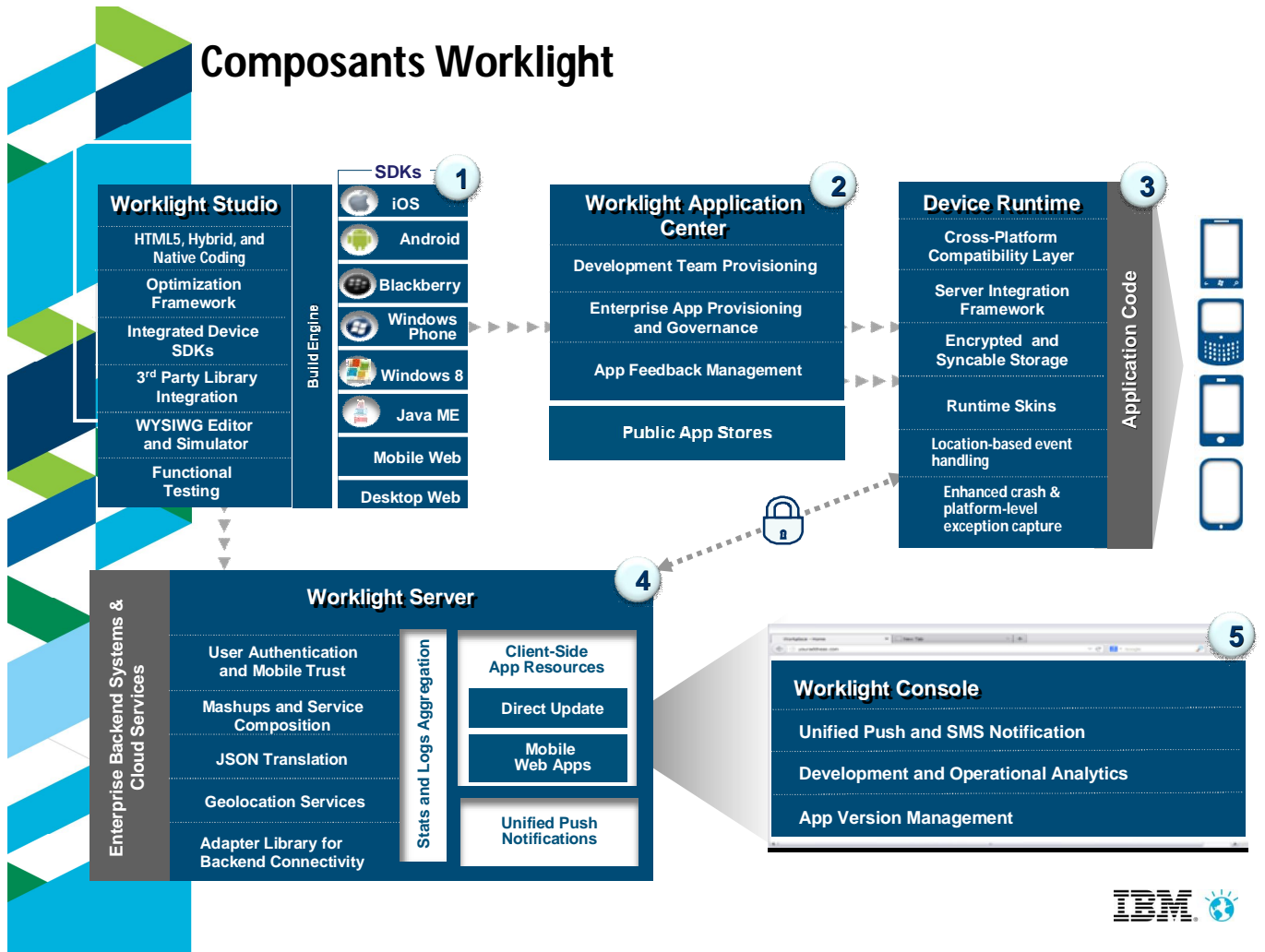




# Worklight : Mobile Enterprise Application Platform



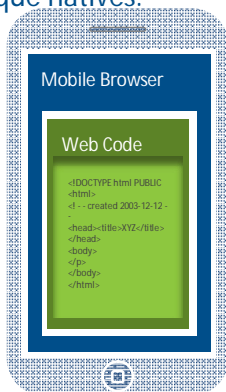
# Composants Worklight



## Le support de plusieurs modes de développement

### Browser Access

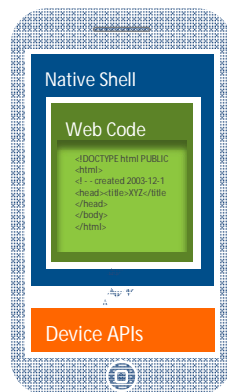
Écrites en HTML5 JavaScript et CSS3. Rapide et peu coûteuses à développer, mais moins puissantes que natives.



Browser Access

### Hybrid Apps - Web

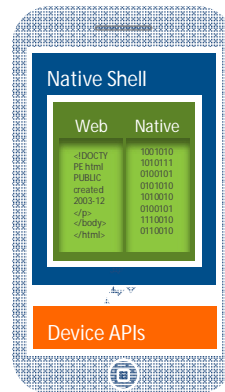
Code HTML5 et bibliothèques runtime Worklight packagés dans l'application et exécutés dans un conteneur natif.



Downloadable

### Hybrid Apps - Mixed

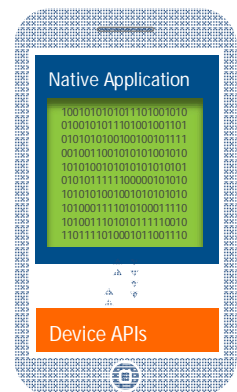
Code web complété par code natif pour des besoins particuliers et une expérience utilisateur maximale.



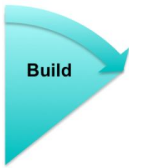
Downloadable

### Native Apps

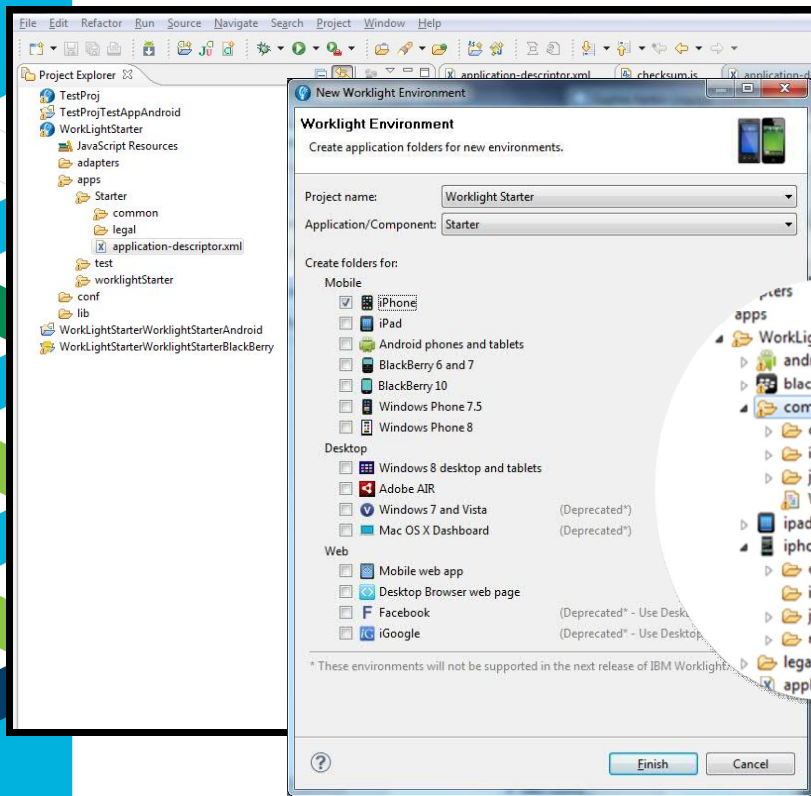
Code par plateforme. Nécessite expertise pointue, coûteux et long à développer. Permet une meilleure expérience utilisateur.



Downloadable



# Worklight Studio : optimisation du code



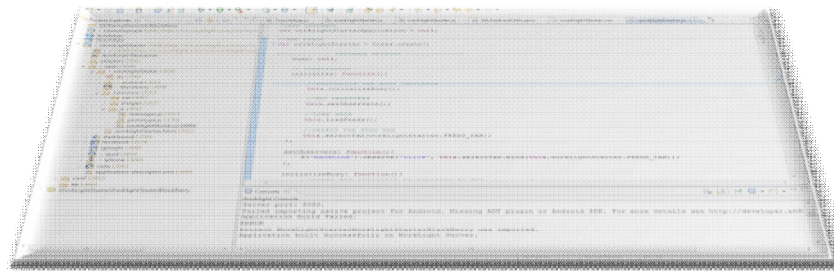
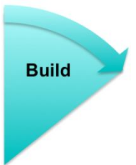
- Un tronc commun de code
- Code optimisé pour chaque OS cible maintenu séparément





## Une plateforme ouverte sur les standards

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



# 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 a web development IDE with several key components:

- Project Explorer:** Shows a project structure with folders for 'dojolib', 'JKEBankMobile', 'jQueryMobileTest1', and various libraries and resources.
- Mobile Navigation:** A sidebar showing a tree view of the application's pages, including 'mainPage (default)', 'worldmap', 'local', 'facebook', 'twitter', and 'youtube'.
- Preview:** A central window showing a mobile application interface for 'News Center' on an 'Apple iPhone 3GS' device. The interface features a news image and four navigation buttons: 'Headline News', 'Around The World', 'U.S News', and 'Local News'.
- HTML Tags Palette:** A sidebar on the right containing a list of widgets such as 'Button', 'Checkbox', 'Collapsible', 'Form', and 'Grid'.
- Property Sheet:** A window below the palette showing configuration options for the selected 'Button' widget, including 'Theme', 'Rounded corners', and 'Compact version'.
- Source Code:** A window at the bottom showing the HTML source code for the previewed page, including image tags and data attributes for the navigation buttons.

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

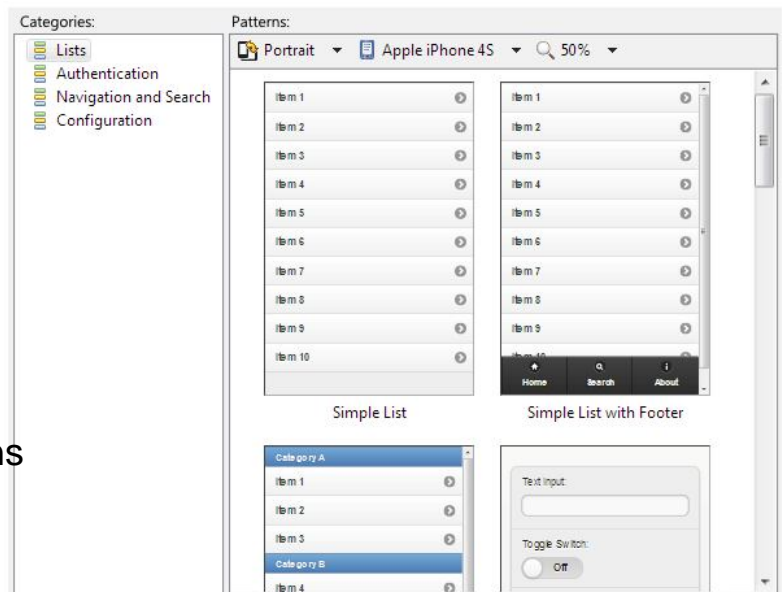
Property sheets for dojo mobile and jQuery mobile widgets

New in  
Worklight 6.0

Build

## 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

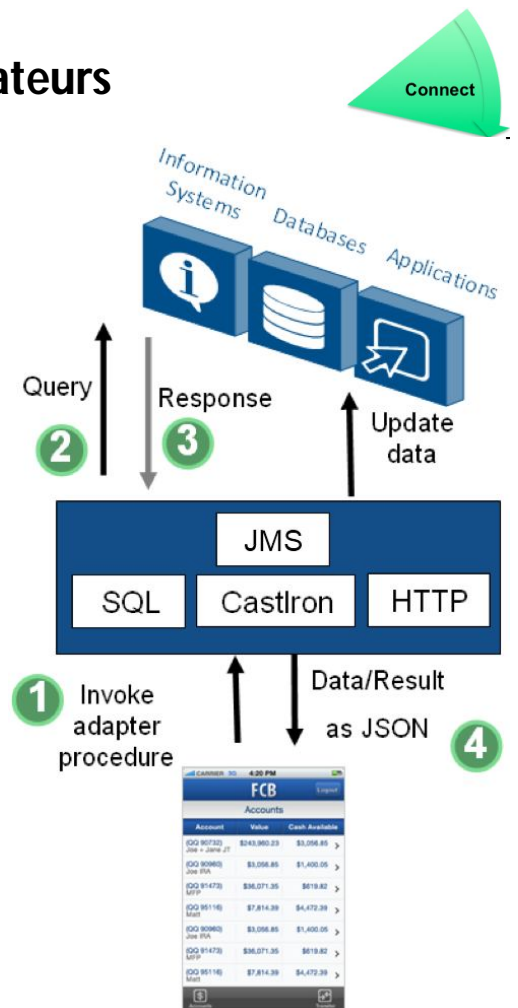






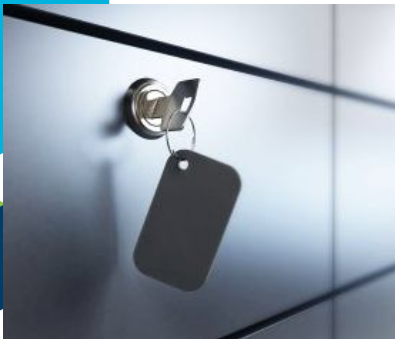
## Connectivité au travers d'adaptateurs

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

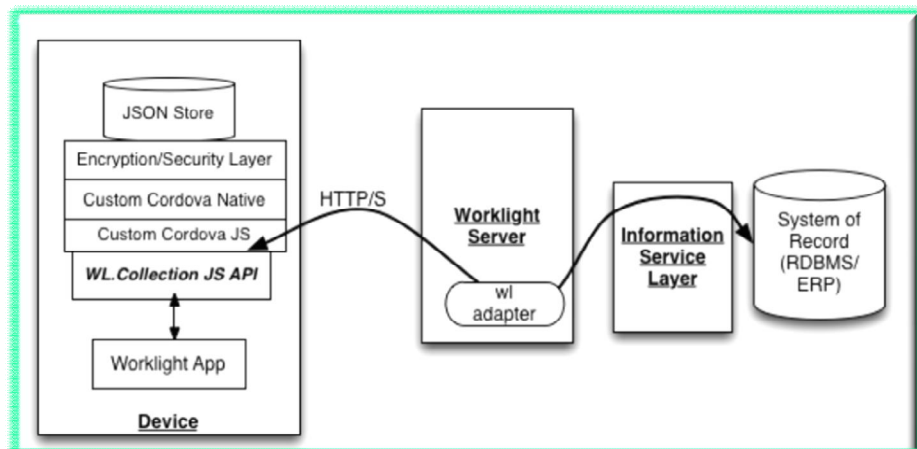


## Base de données JSON embarquée

Connect



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



New in  
Worklight 6.0

Connect

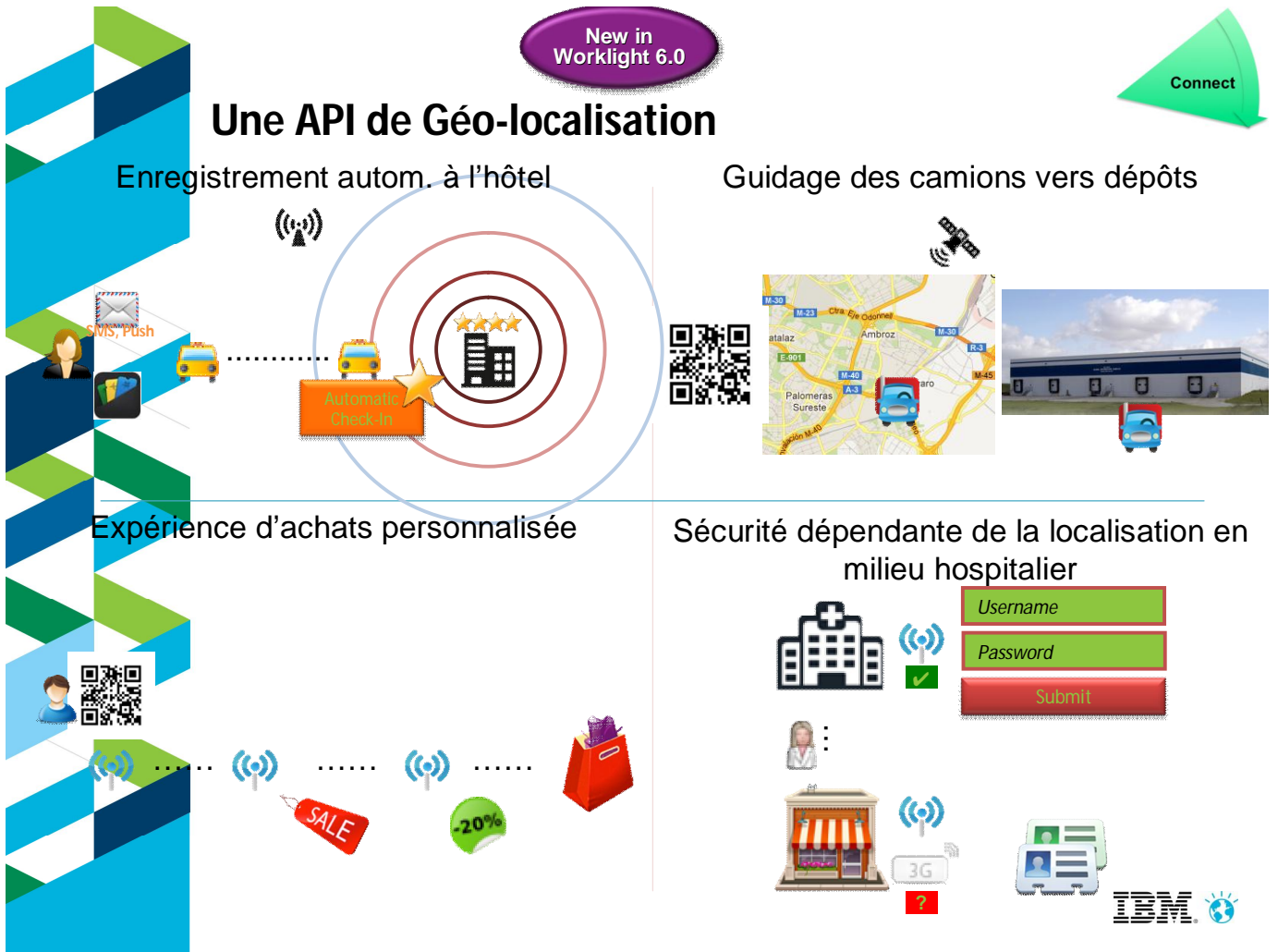
## Une API de Géo-localisation

Enregistrement autom. à l'hôtel

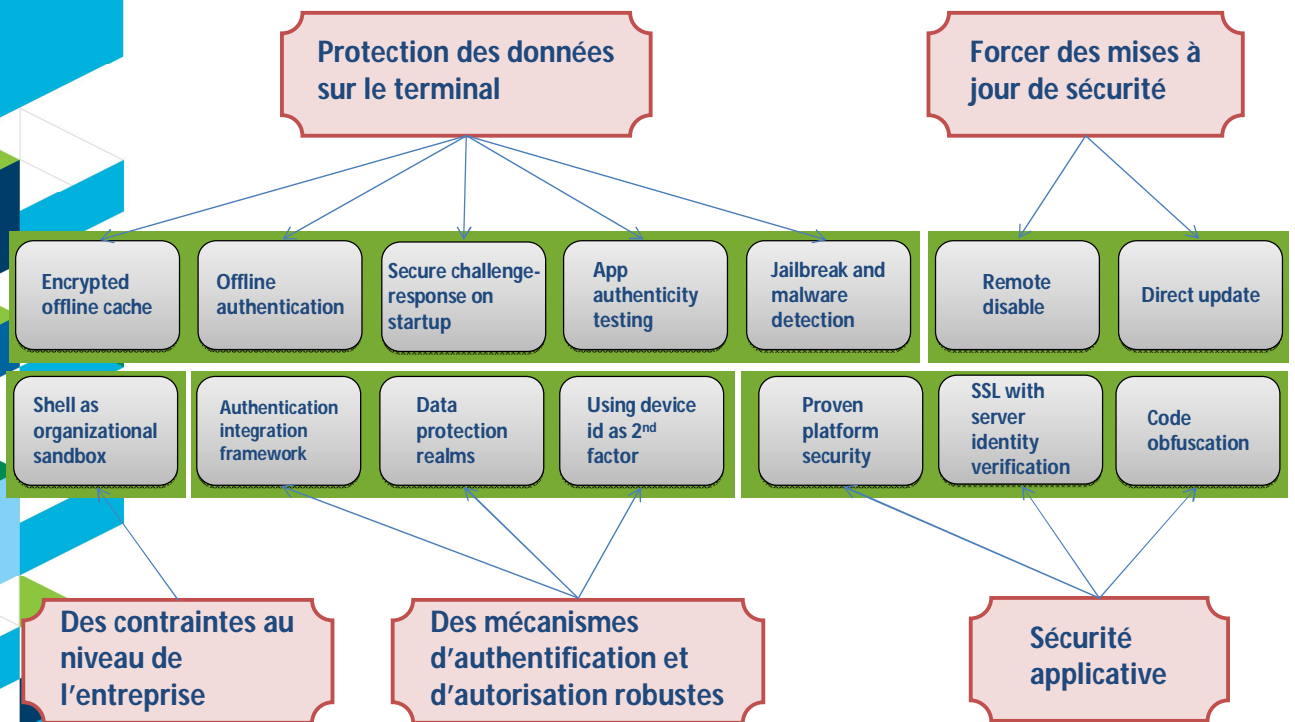
Guidage des camions vers dépôts

Expérience d'achats personnalisée

Sécurité dépendante de la localisation en milieu hospitalier



## Des fonctions de sécurité avancées



# Un simulateur mobile web pour le développement

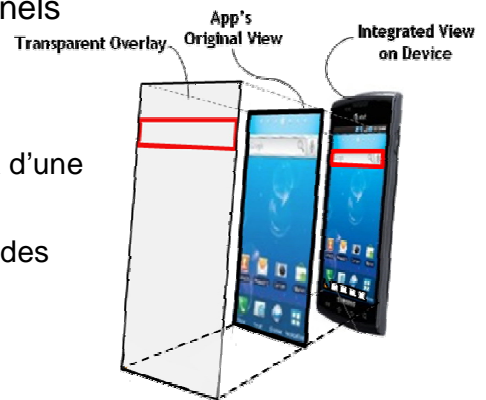


New in  
Worklight 6.0

## 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**

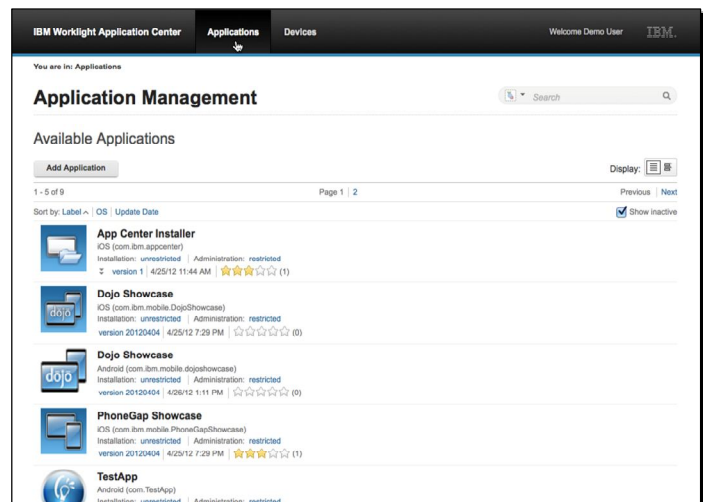
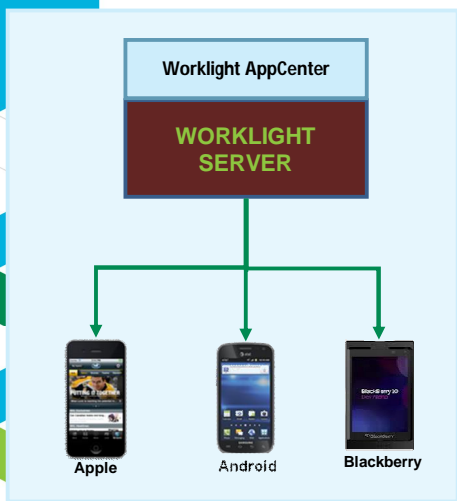


*Améliorer la qualité des  
applications livrées tout en  
maîtrisant les délais*





# Un application store privé pour diffuser les applications



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





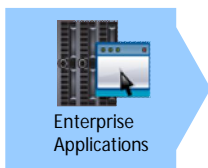
## Worklight Server : middleware mobile



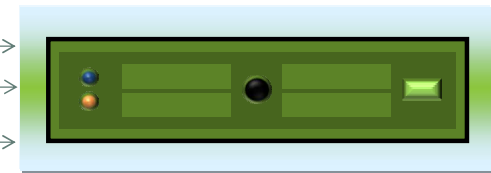
Databases



Web Services



Enterprise Applications



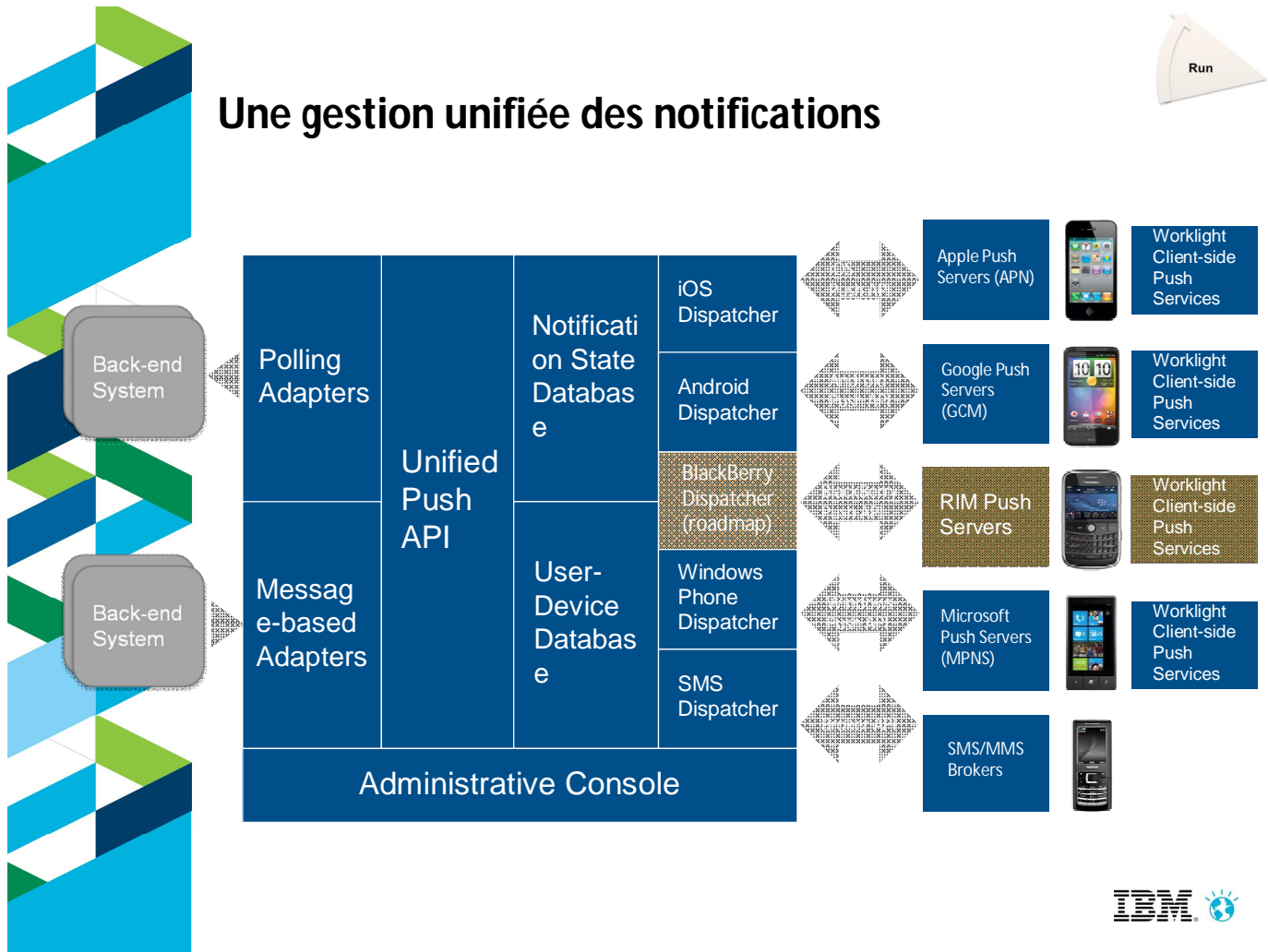
Worklight Mobile Enterprise Application Platform

- 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
- Géolocalisation





# Une gestion unifiée des notifications



# Gestion du cycle de vie des apps mobiles

Manage

IBM Worklight Management Center interface showing application management options:

- Navigation: Catalog, Push Notifications, Reports, Active Users
- Deploy application or adapter:  Browse... Submit
- MyFeeds section:
  - Preview as: [dropdown] Last updated at: 2012-04-16 08:52
  - iPhone: Version 1.0 (Active) | Authenticity Testing: Disabled | Lock this version:
  - Android: Version 1.2 (Active) | Authenticity Testing: Disabled | Lock this version:
  - Android: Version 1.1 (Active, Notifying) | Authenticity Testing: Disabled | Notification text: "Version 1.2 has been released" | Lock this version:
  - Android: Version 1.0 (Disabled) | Authenticity Testing: Disabled | Notification text: "Upgrade to version 1.1" | URL to app store or market: <http://www.ibm.com> | Lock this version:
  - Mobile Web: Version 1.0 | Get App URL

Mobile application screenshot showing a "Worklight Starter" screen with a modal dialog:

Worklight Starter [Reload] 3:47 PM

**Application Disabled**

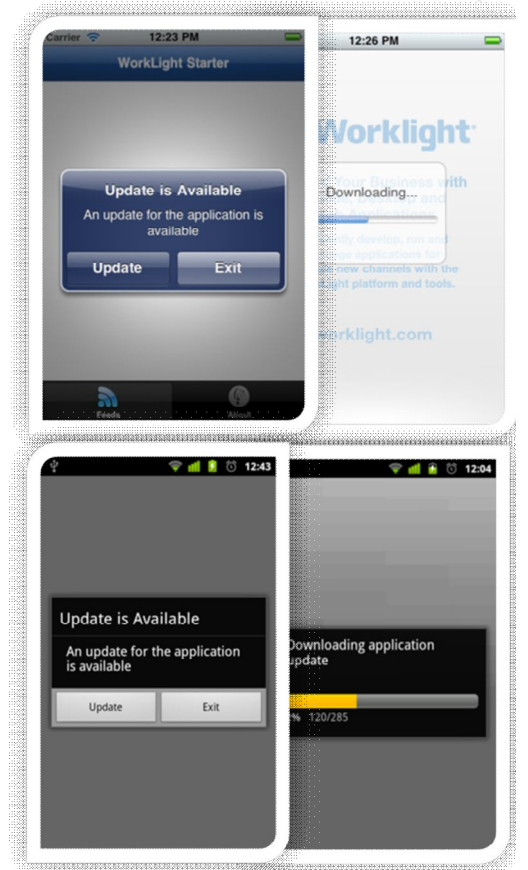
the version 1.0 is disabled, please update to version 2.0.

Exit application | Get new version

Feeds | About



# Mise à jour du contenu applicatif



New in Worklight 6.0

Manage

# Des capacités d'analytique opérationnelle



### Analytics Dashboard

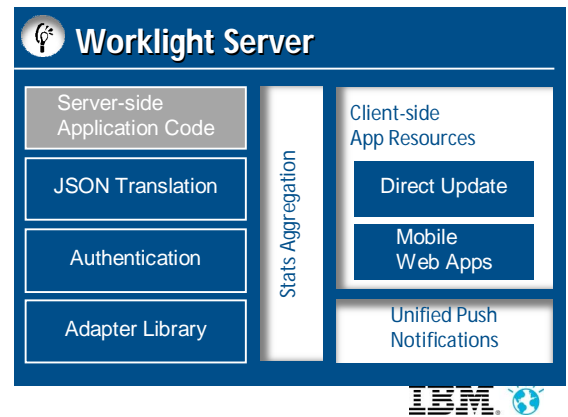
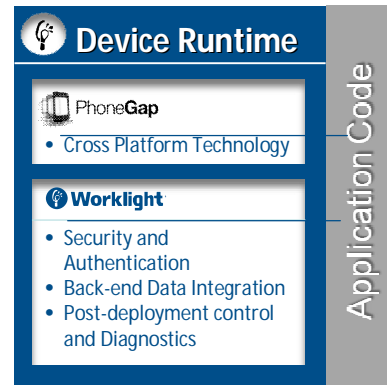
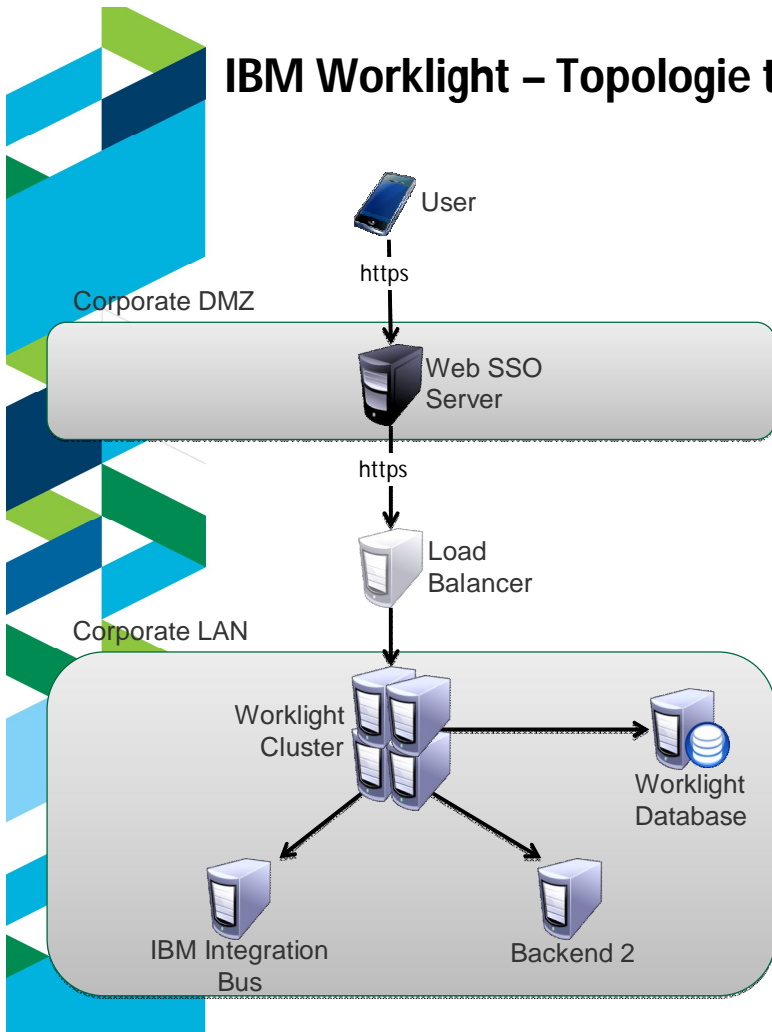
#### Server Logs

Filter:  [Filter](#)

Timestamp	Thread Id	Severity	Source Class	Method	Message	View Stack
4/11/2013 8:34:04 PM	13	SEVERE	com.worklight.registration.notification	AuthenticationContext	AnalyticsServiceImpl.badParameters	<a href="#">View Stack</a>
4/11/2013 8:35:53 PM	1	WARNING	com.worklight.common.util.GenUtils	getBindingProperty	AnalyticsServiceImpl.badParameters	<a href="#">View Stack</a>
4/11/2013 8:35:53 PM	10	INFO	com.worklight.common.util.GenUtils	APNSMetadata	found IP address:9.41.24.145	<a href="#">View Stack</a>
4/11/2013 7:28:24 PM	2	WARNING	com.worklight.common.util.GenUtils	AuthenticationContext	worklight.FRM.SEE3305: Application new reports are disabled	<a href="#">View Stack</a>
4/11/2013 7:28:24 PM	15	WARNING	com.worklight.com.auth.impl.AuthContext	getBindingProperty	AnalyticsServiceImpl.badParameters	<a href="#">View Stack</a>
4/11/2013 7:28:23 PM	11	SEVERE	com.worklight.com.auth.impl.AuthContext	getBindingProperty	worklight.FRM.SEE3305: Application new reports are disabled.	<a href="#">View Stack</a>
4/11/2013 7:28:23 PM	12	INFO	com.worklight.common.util.GenUtils	APNSMetadata	found IP address:9.41.24.145	<a href="#">View Stack</a>
4/11/2013 7:28:23 PM	1	WARNING	com.worklight.common.util.GenUtils	getBindingProperty	found IP address:9.41.24.145	<a href="#">View Stack</a>
4/11/2013 7:28:23 PM	5	WARNING	com.worklight.registration.notification	SCMMetadata	AnalyticsServiceImpl.badParameters	<a href="#">View Stack</a>
4/11/2013 7:28:21 PM	6	WARNING	com.worklight.com.auth.impl.AuthContext	getBindingProperty	worklight.FRM.SEE3305: Application new reports are disabled	<a href="#">View Stack</a>
4/11/2013 7:28:21 PM	7	INFO	com.worklight.common.util.GenUtils	AuthenticationContext	AnalyticsServiceImpl.badParameters	<a href="#">View Stack</a>
4/11/2013 7:28:20 PM	8	SEVERE	com.worklight.common.util.GenUtils	APNSMetadata	worklight.FRM.SEE3305: Application new reports are disabled	<a href="#">View Stack</a>



## IBM Worklight – Topologie typique





## Synthèse des fonctionnalités couvertes par une MEAP

Intégration back end

Sécurité

Gestion des apps

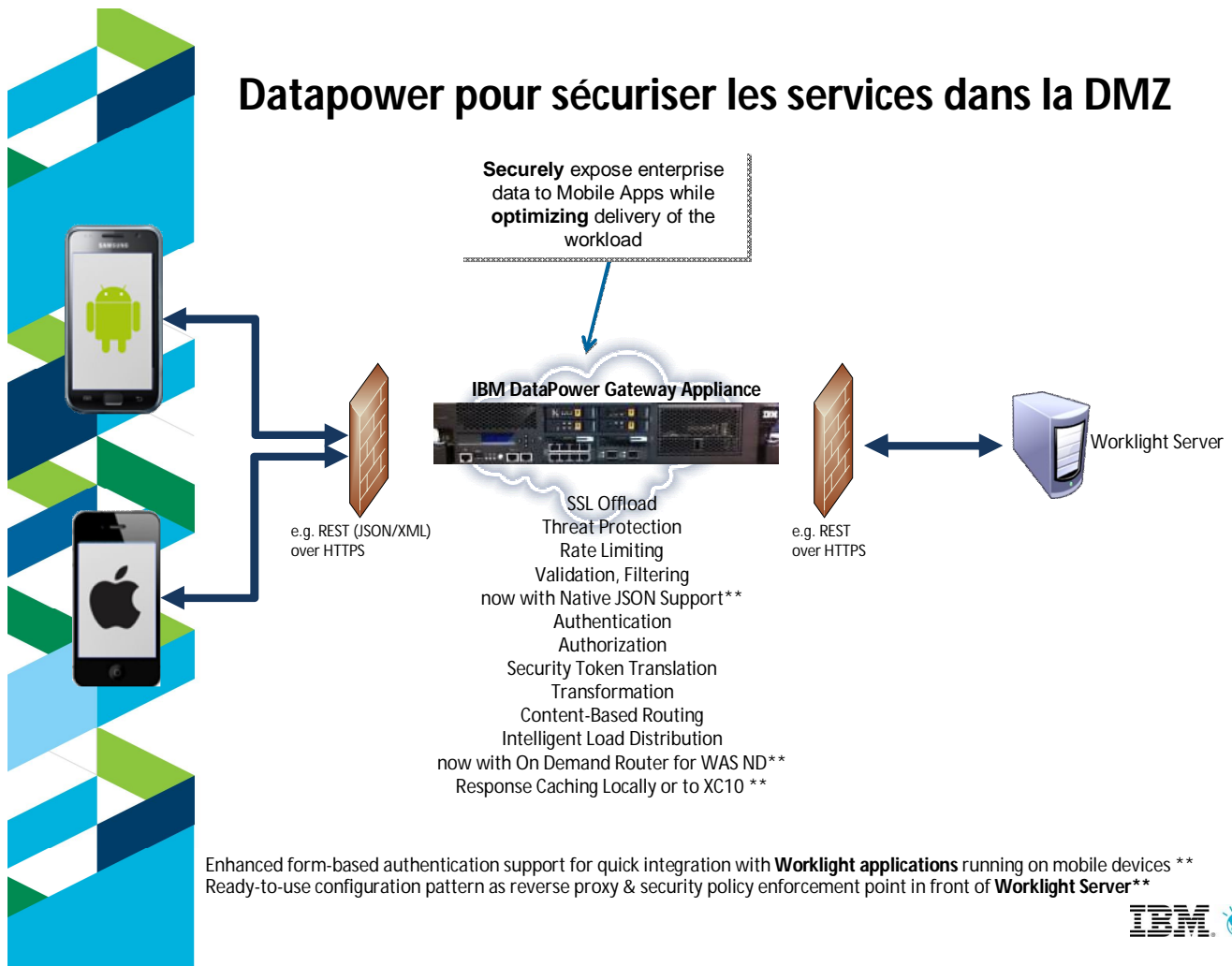
Notifications

Supervision et monitoring

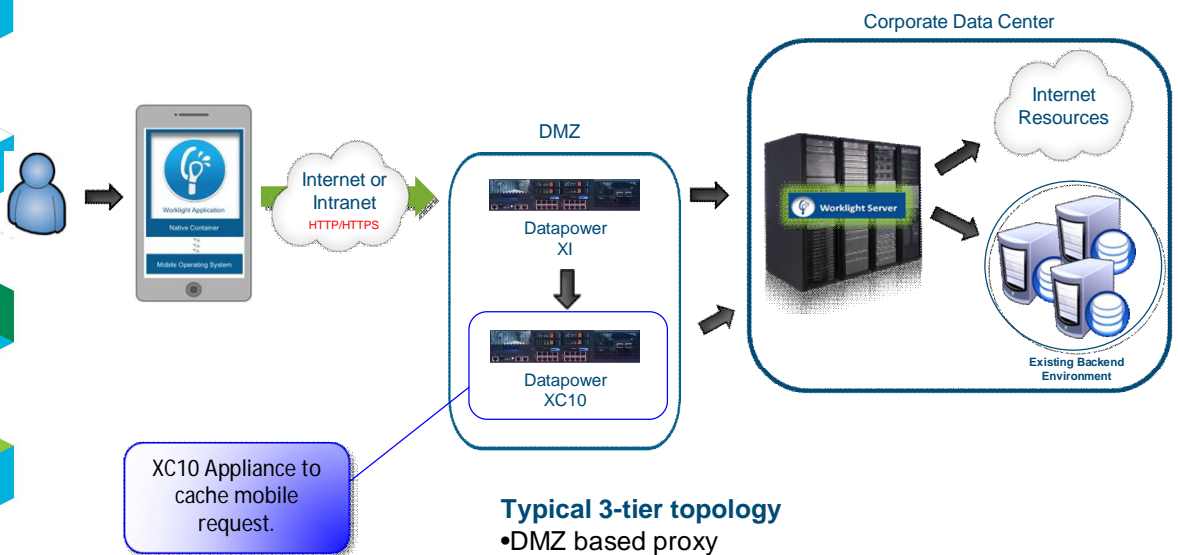
Industrialisation des développements et productivité

Cohérence avec évolution marché

## Datapower pour sécuriser les services dans la DMZ



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

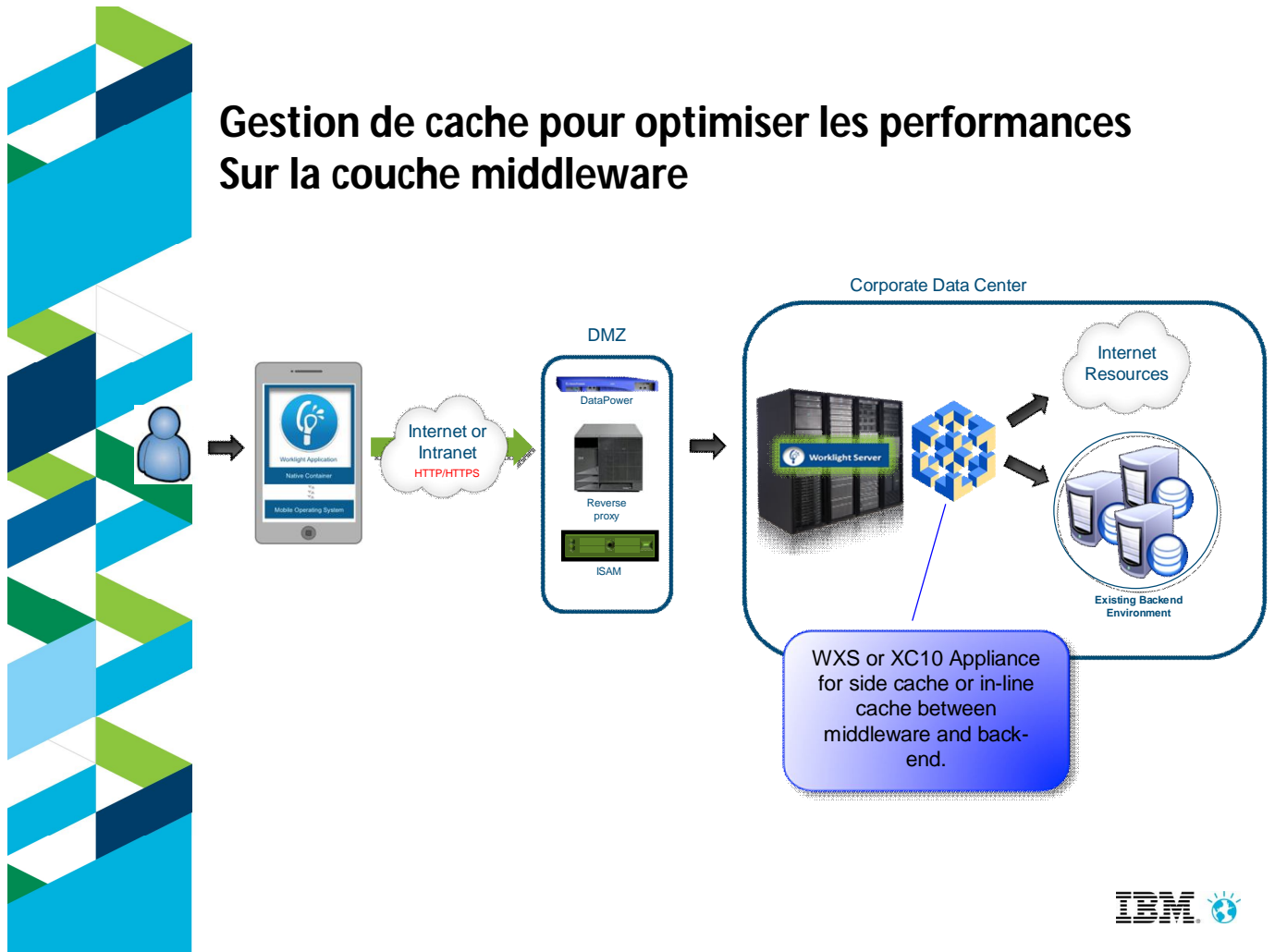


### Typical 3-tier topology

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



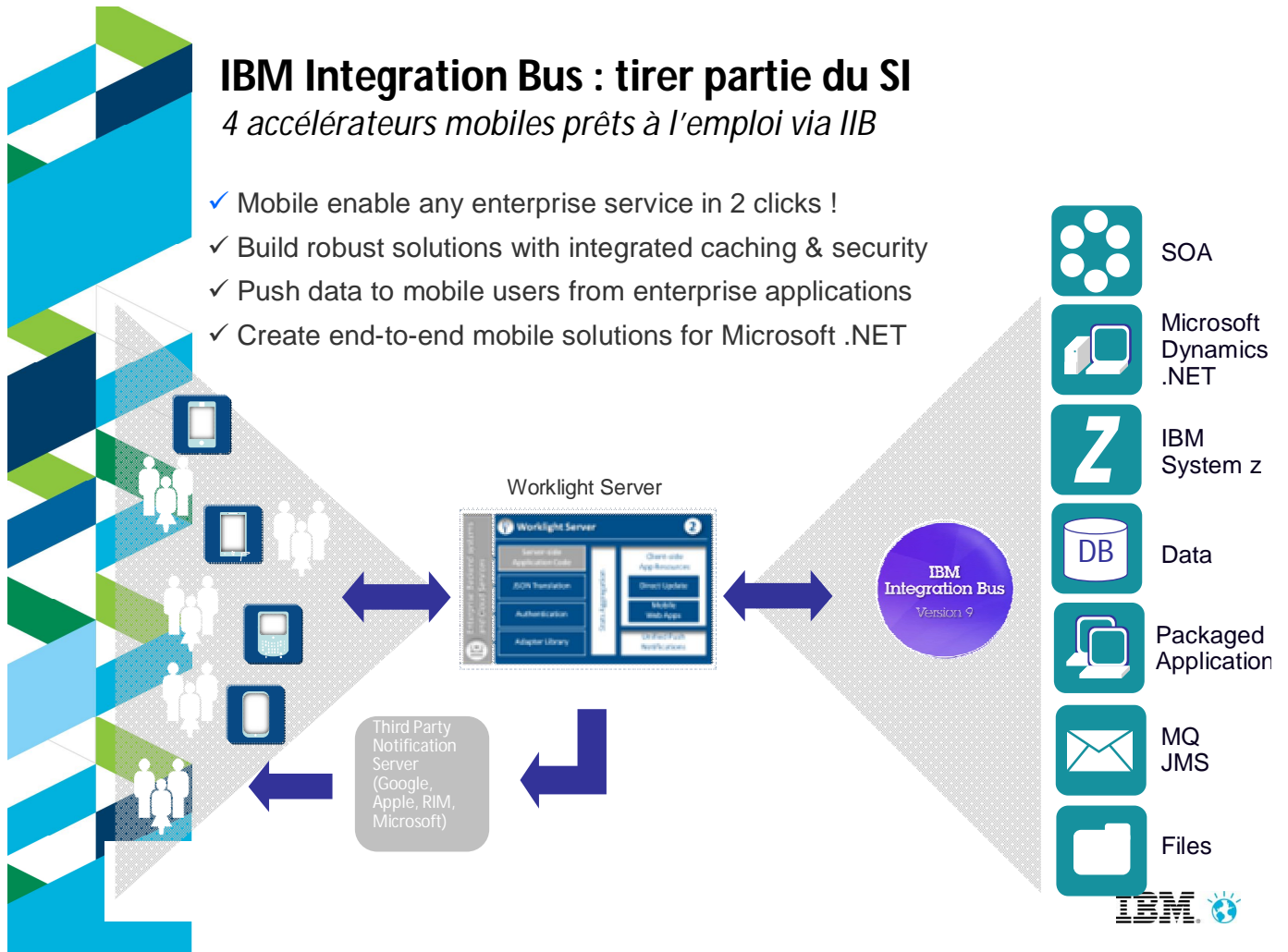
## Gestion de cache pour optimiser les performances Sur la couche middleware



## 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



# Cast Iron : intégrer facilement les applications Cloud



## Complete Flexibility

Cloud2  
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

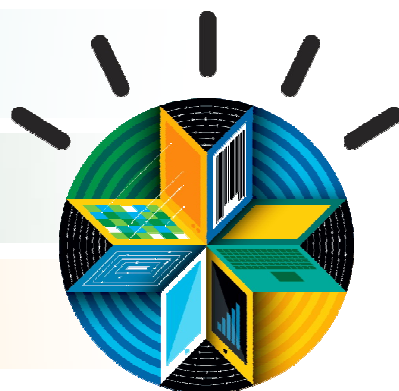


## 3 façons de démarrer avec IBM

**1** Download the free IBM Worklight Developer Edition: [ibm.co/worklightde](http://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](http://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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