

IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

28, 29 et 30 août
IBM Client Center Paris



#solconnect13

Transformez vos opportunités en succès



IBM SolutionsConnect 2013

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AIM03: Infrastructure Mobile d'Entreprise

Etienne Noiret – Technical Sales and Solutions

Patrick Megard – Development Manager, IBM Worklight

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28, 29 et 30 août - IBM Client Center Paris

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L'IBM TechSoftware nouvelle génération

IBM Worklight Labs



IBM SolutionsConnect 2013

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France Lab – Contributions

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

IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

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



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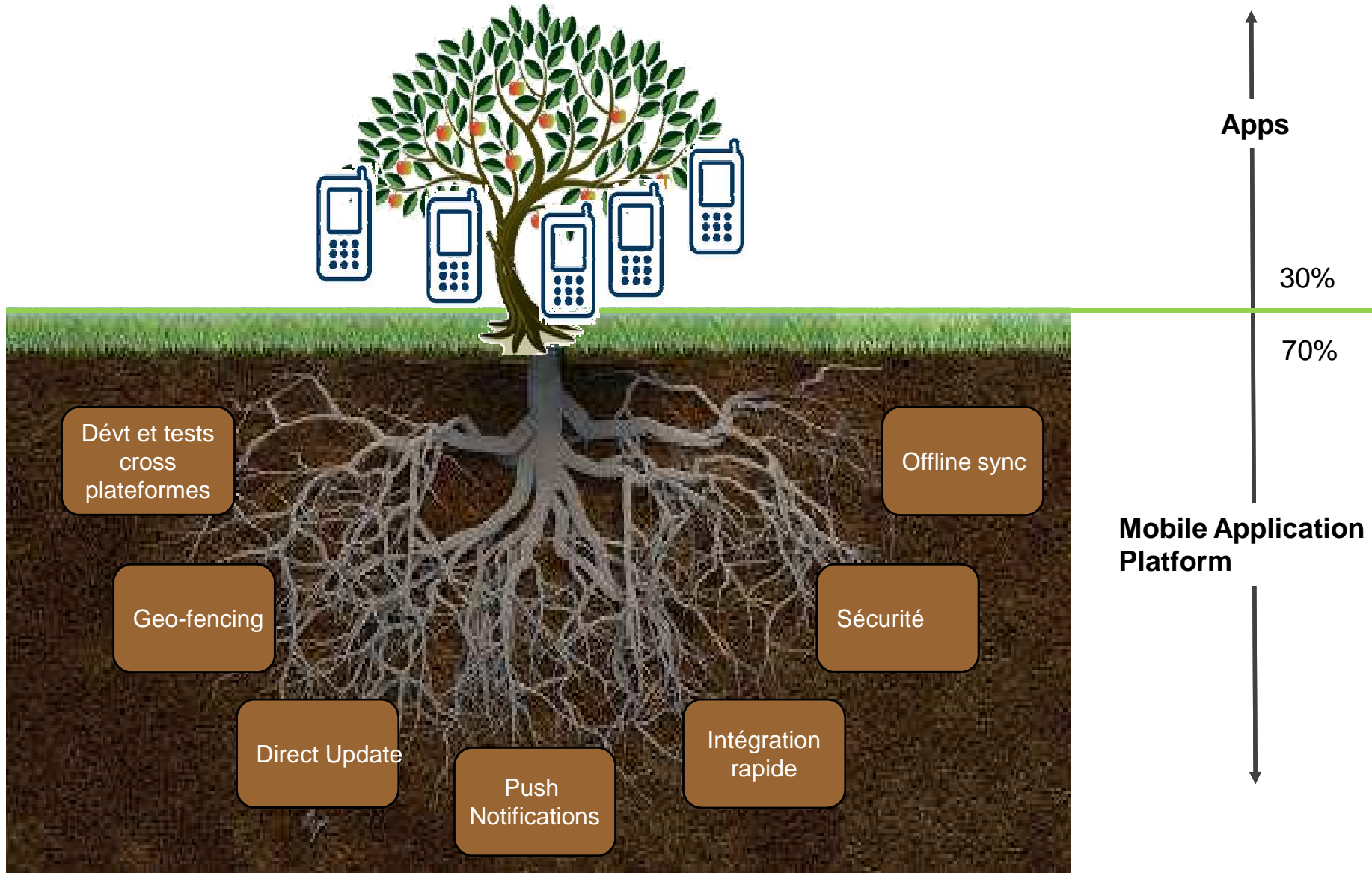
IBM MobileFirst: portfolio complet pour accompagner une stratégie mobilité



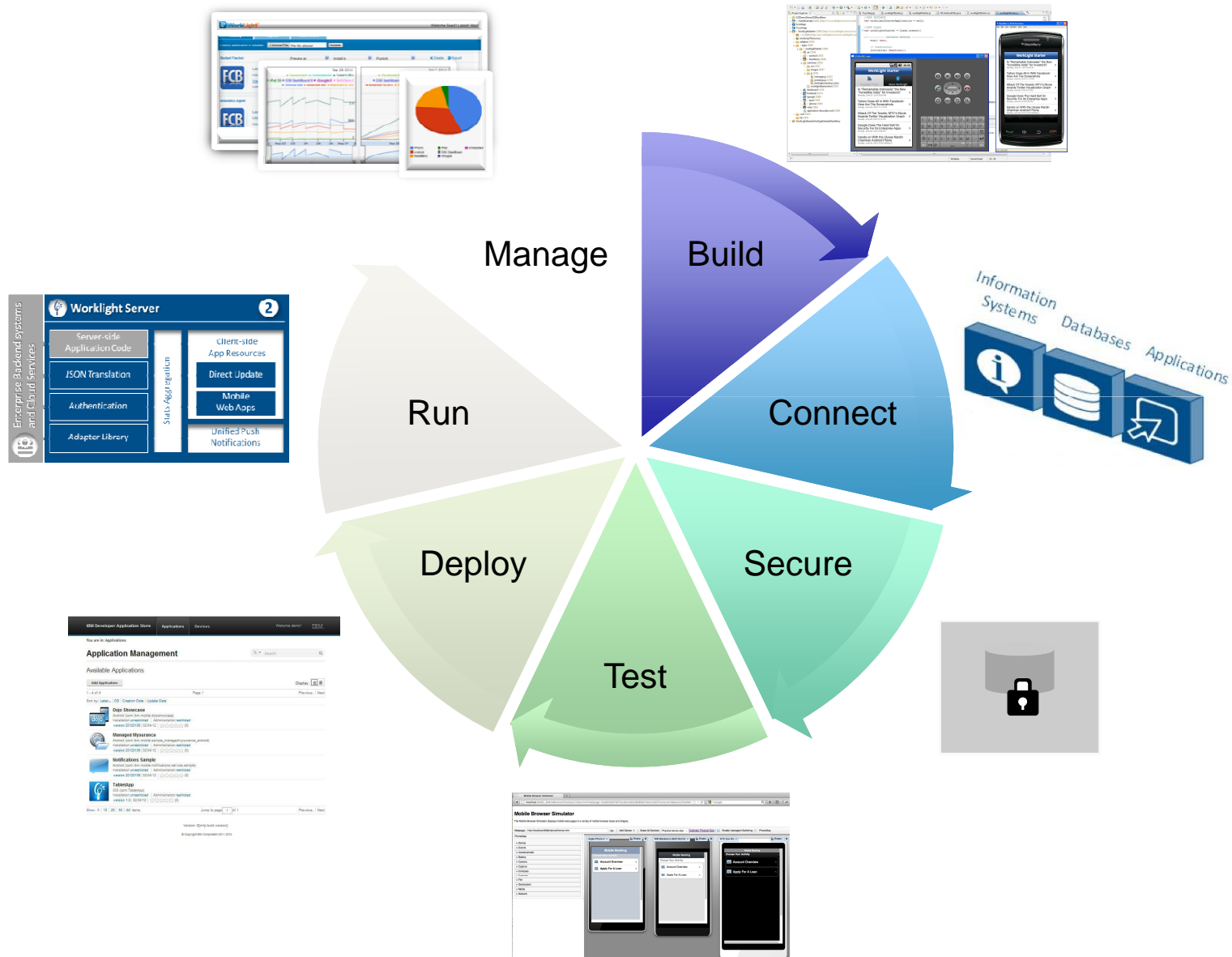
Le portfolio applicatif IBM MobileFirst



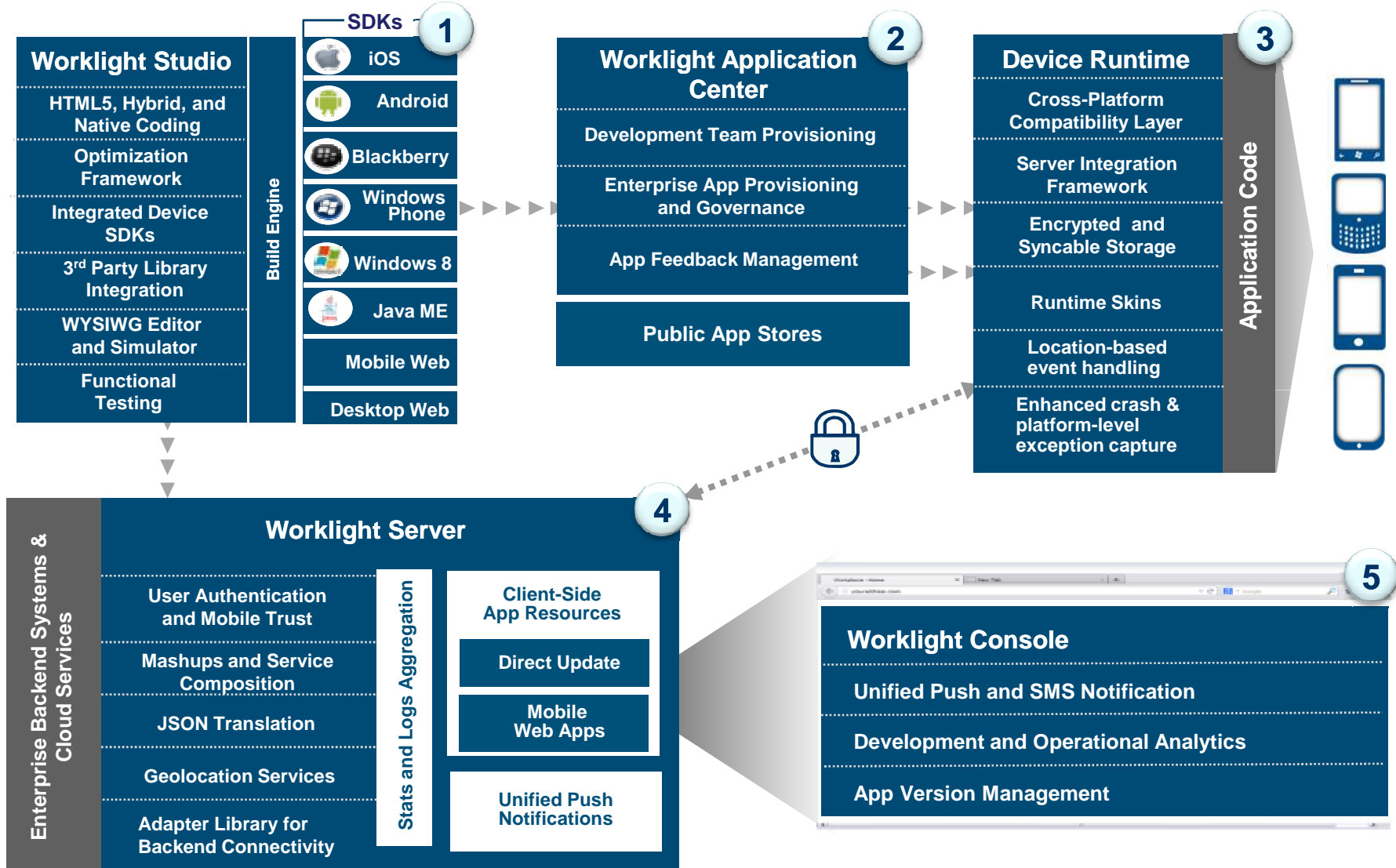
Worklight est une Mobile Enterprise Application Platform



Worklight : Mobile Enterprise Application Platform



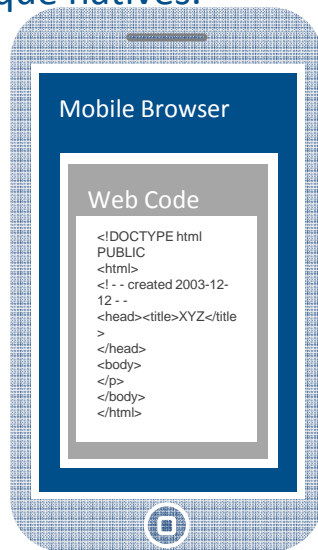
Composants Worklight



Le support de plusieurs modes de développement

Browser Access

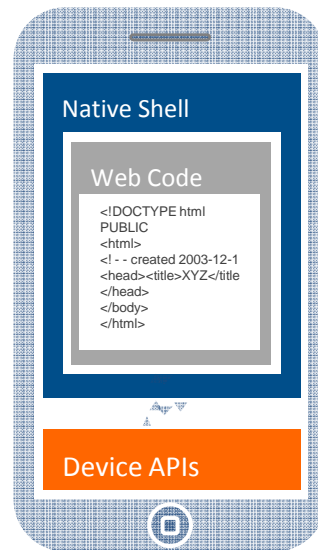
Écrites en HTML5 JavaScript et CSS3. Rapide et peu coûteuses à développer, mais moins puissantes que natives.



Browser Access

Hybrid Apps - Web

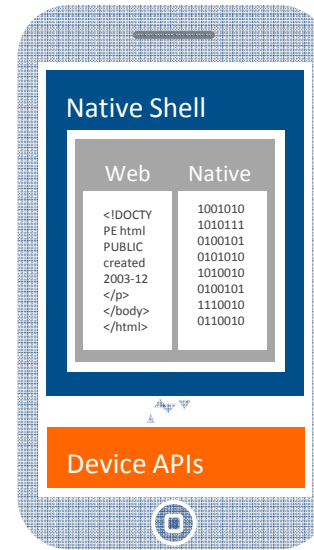
Code HTML5 et bibliothèques runtime Worklight packagés dans l'application et exécutés dans un conteneur natif.



Downloadable

Hybrid Apps - Mixed

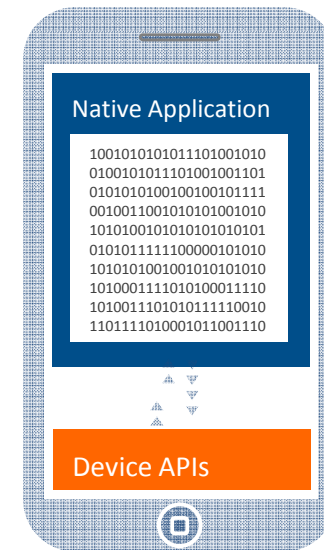
Code web complété par code natif pour des besoins particuliers et une expérience utilisateur maximale.



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

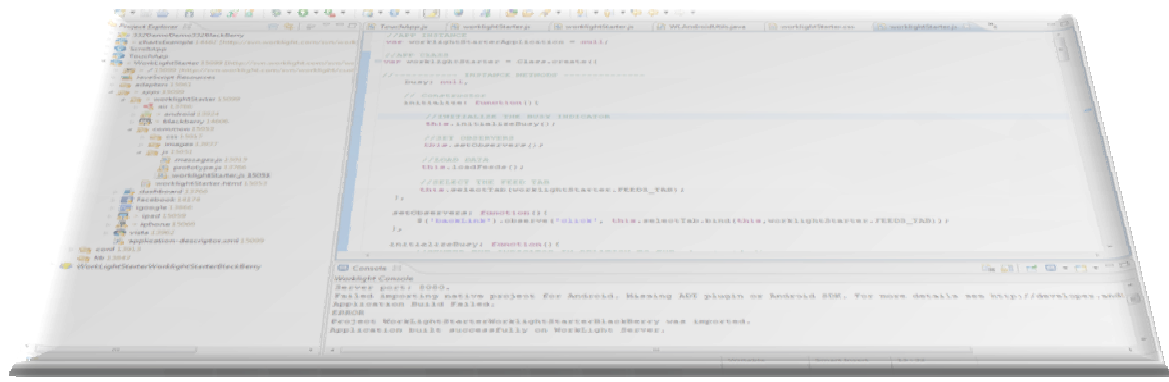
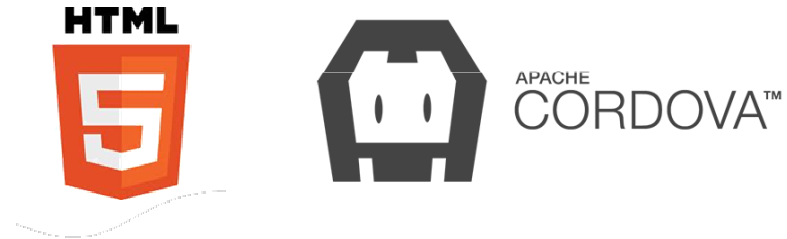
•Un tronc commun de code

•Code optimisé pour chaque OS cible maintenu séparément

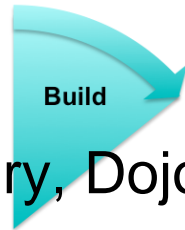


Une plateforme ouverte sur les standards

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



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



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 shows an IDE interface for developing mobile applications. The central area displays a mobile device simulation with a 'News Center' app. The app features a header image of a city street and four blue buttons with white text: 'Headline News', 'Around The World', 'U.S News', and 'Local News'. Below the device simulation is a code editor showing HTML and jQuery Mobile widget markup. The left side of the IDE includes a 'Project Explorer' showing a project structure with folders like 'dojolib', 'JKEBankMobile', and 'App1'. Below that is a 'Mobile Navigation' pane with a tree view containing items like 'mainPage (default)', 'worldmap', 'local', 'facebook', 'twitter', and 'youtube'. On the right side, there is a 'Widget Palette' with categories like 'HTML Tags', 'HTML Form Tags', and 'jQuery Mobile Widgets'. The 'jQuery Mobile Widgets' category is expanded, showing various widget types such as 'Button', 'Checkbox', 'Collapsible', etc. Below the widget palette is a 'Property Sheet' for the selected 'Button' widget, showing settings like 'Theme: b', 'Rounded corners', and 'Compact version'. A 'LogCat' window is also visible at the bottom right.

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

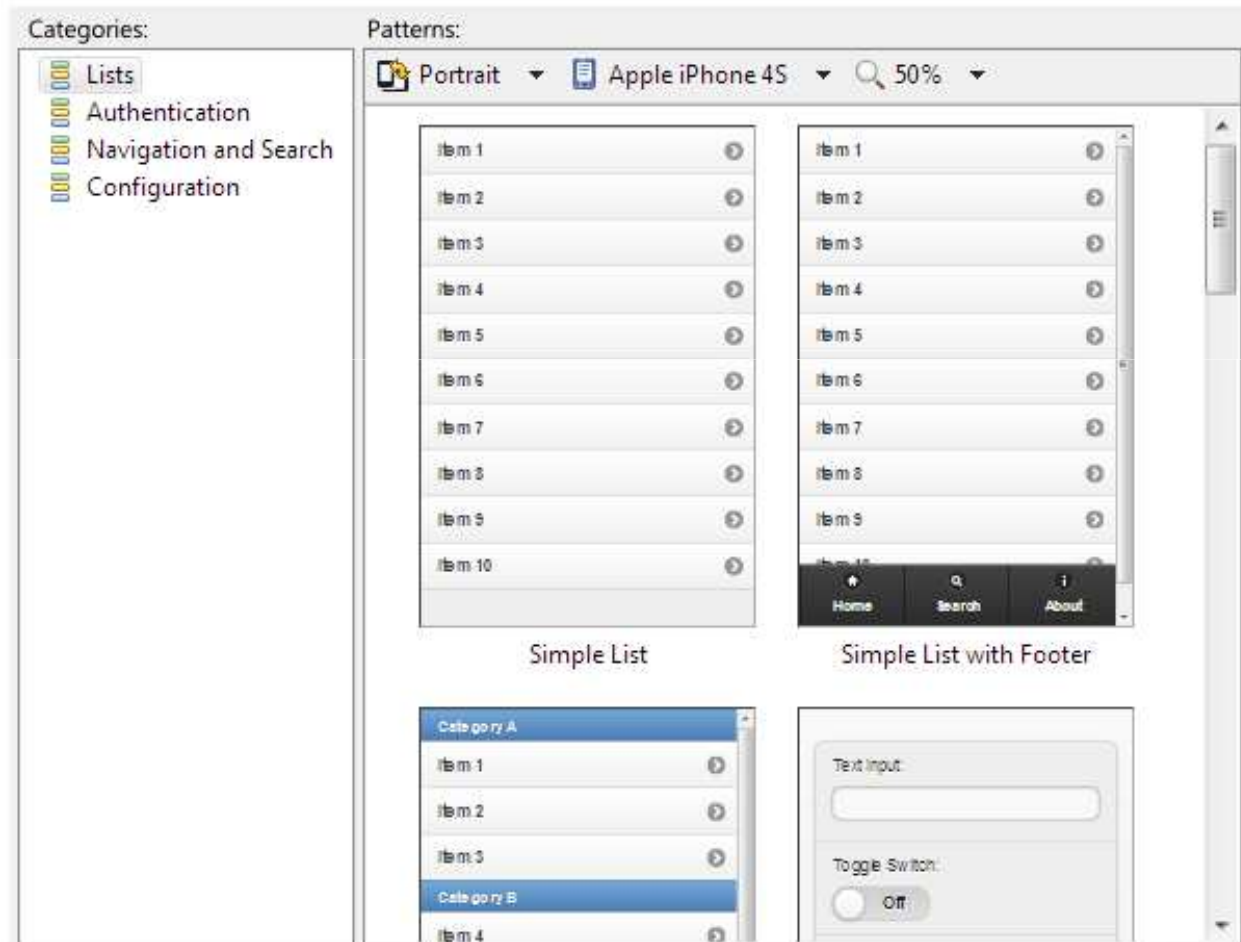
Property sheets for dojo mobile and jQuery mobile widgets

New in
Worklight 6.0

Build

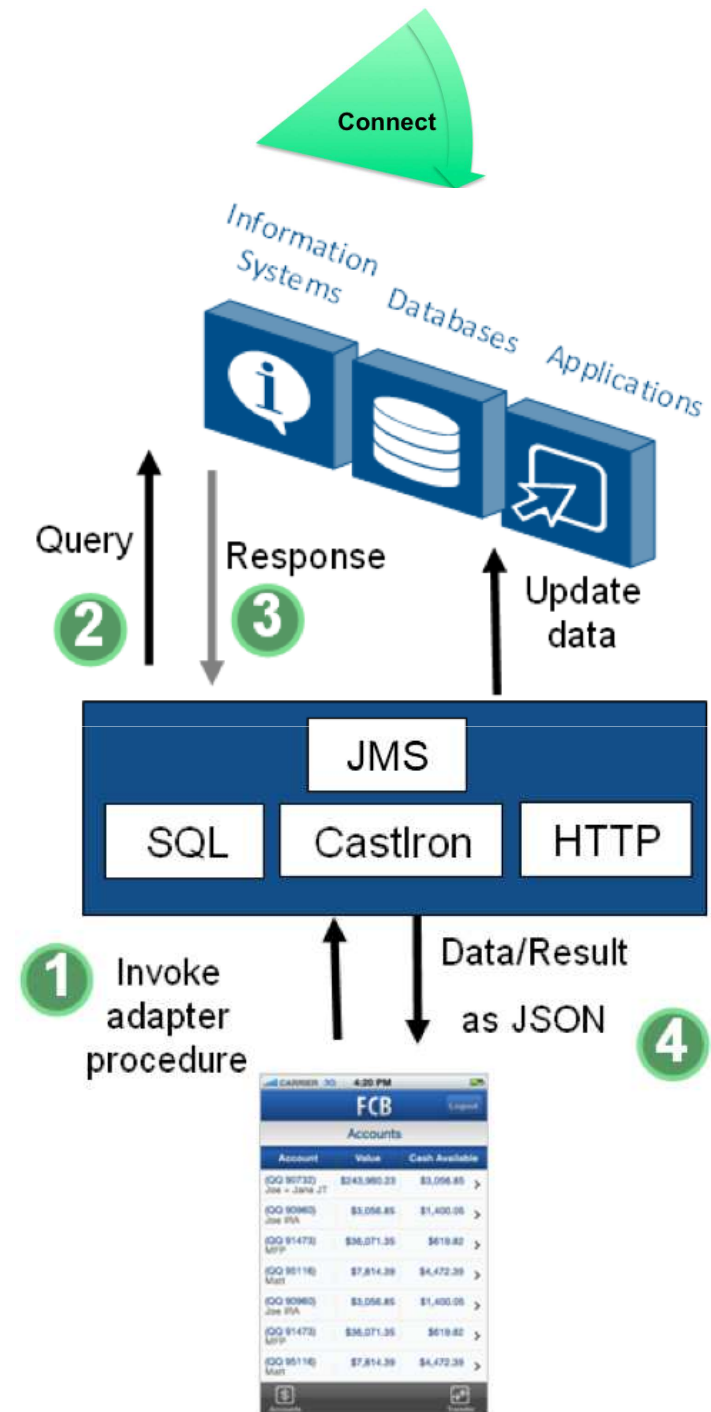
Des modèles d'écrans pour accélérer les développements

- 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

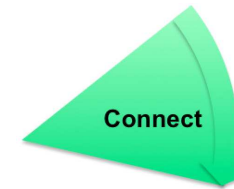


Connectivité au travers d'adaptateurs

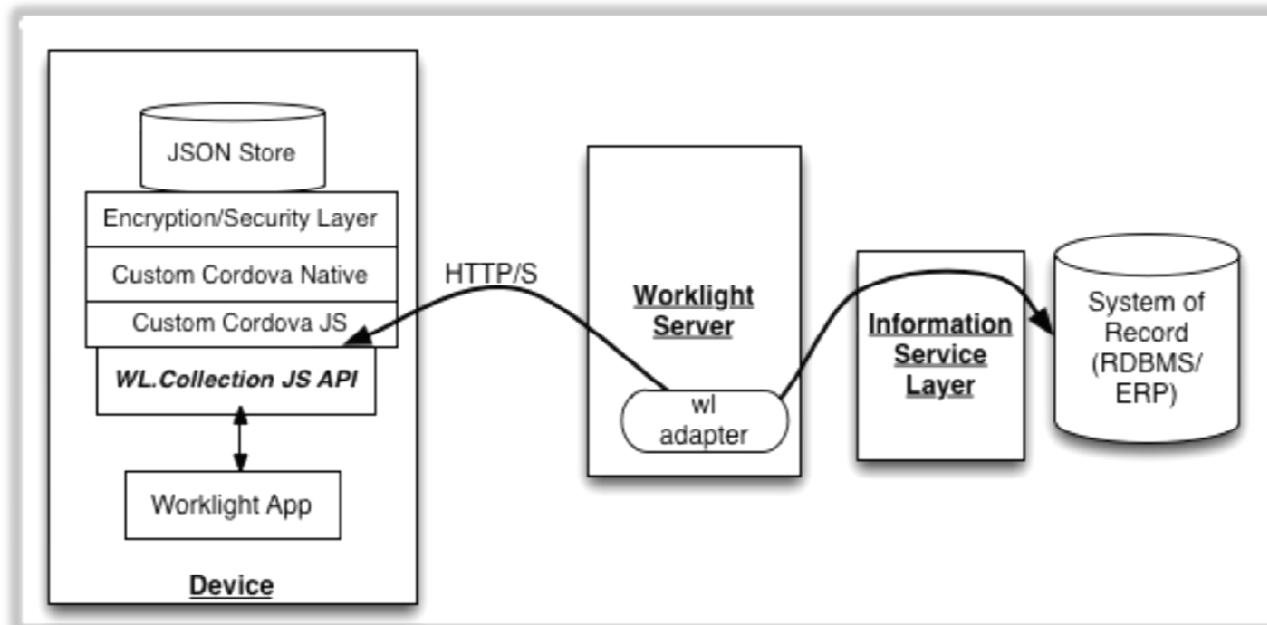
- Développement rapide en Javascript
- Transformation XML→JSON automatique
- Gestion des transactions
- Gestion de la sécurité
- Scalabilité
- Possibilité de recomposer des services



Base de données JSON embarquée

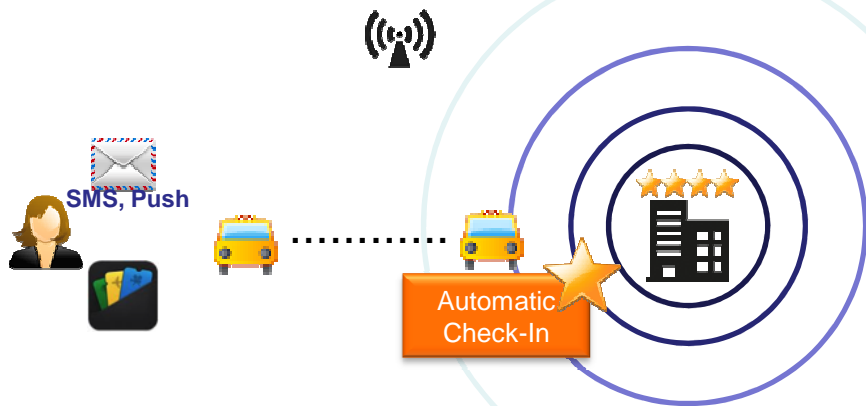


- Travail en mode déconnecté
- Encryptage possible
- Synchro serveur → client: via adaptateurs
- Synchro client → serveur: stockage des actions d'écritures pour exécution différée



Une API de Géo-localisation

Enregistrement autom. à l'hôtel



Guidage des camions vers dépôts



Expérience d'achats personnalisée

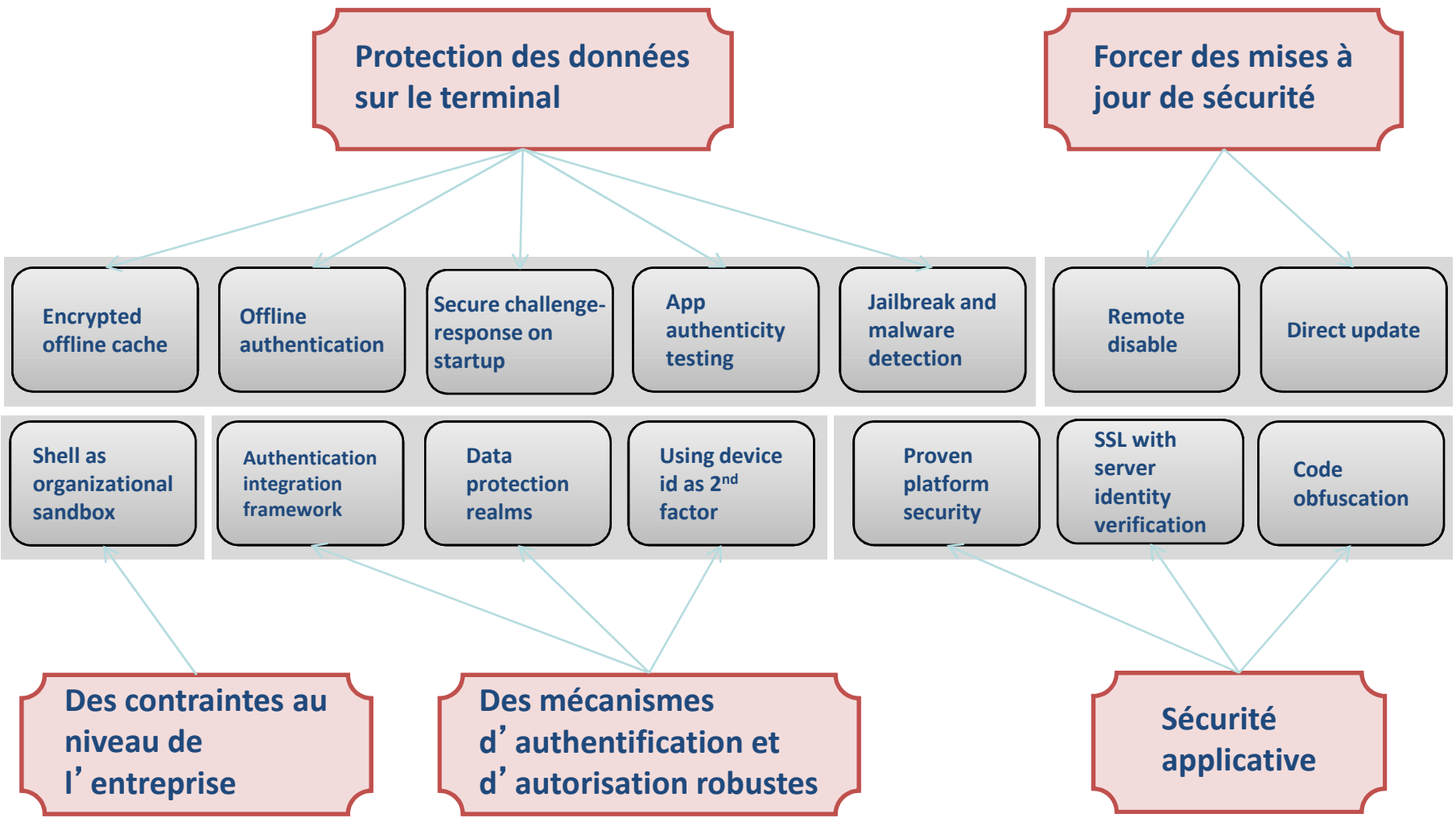


Sécurité dépendante de la localisation en milieu hospitalier

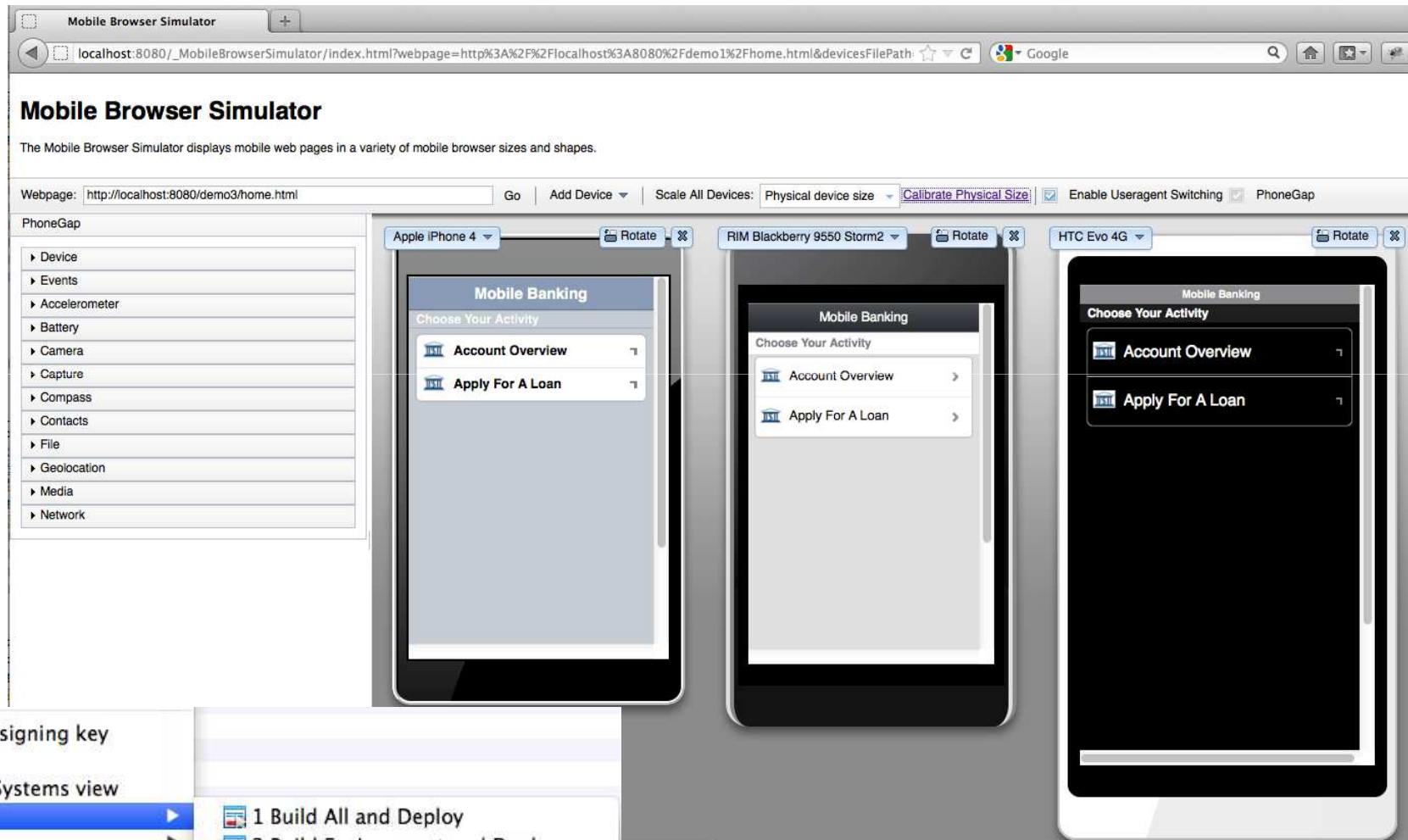




Des fonctions de sécurité avancées



Un simulateur mobile web pour le développement

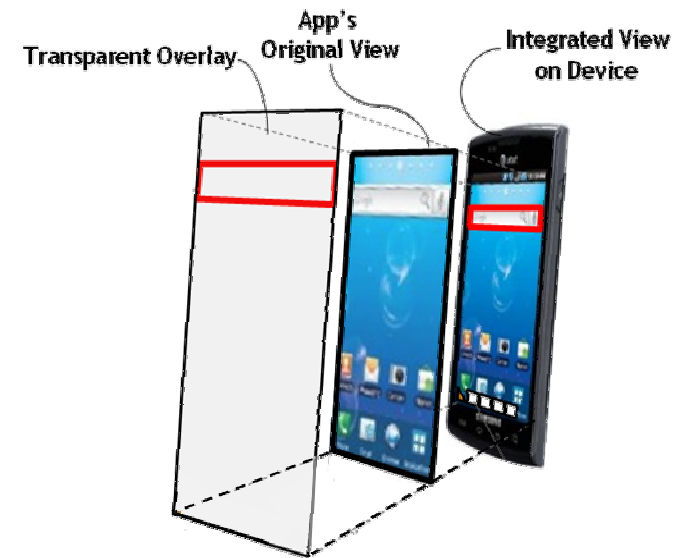


New in
Worklight 6.0

Gestion intégrée des tests fonctionnels

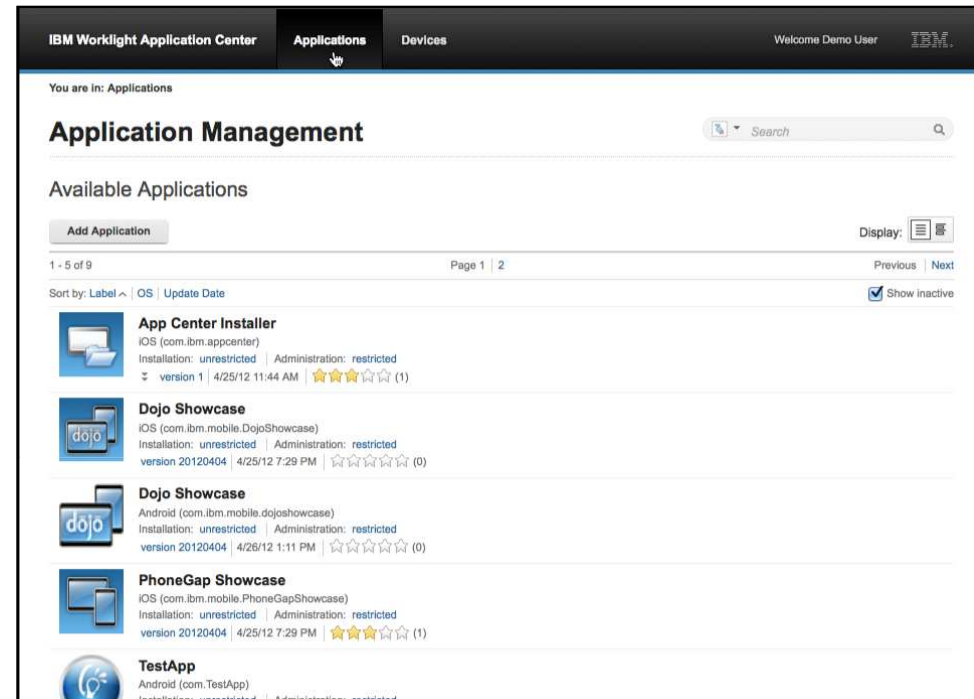
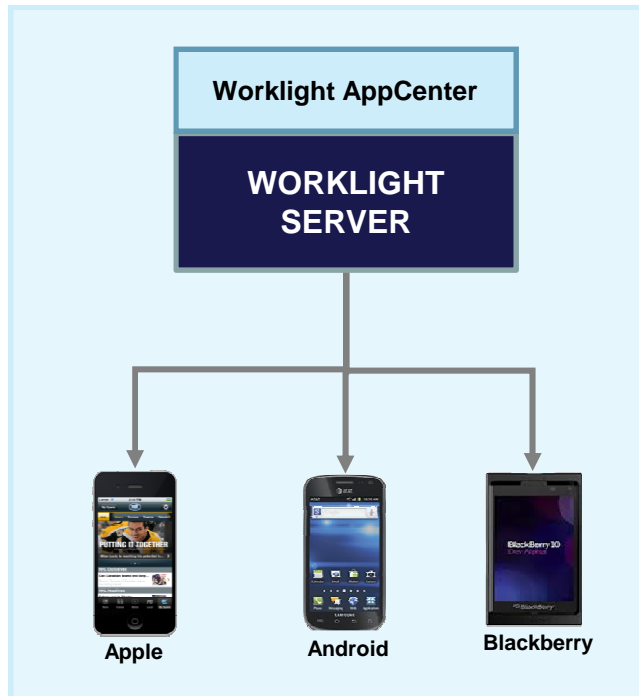
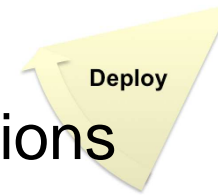


- Couverture complète des tests fonctionnels
 - Support d'Android et iOS, natif et hybride
 - Enregistrement et rejeu sur les terminaux
 - Un même test couvre plusieurs terminaux d'une même famille
 - Scripts en langage naturel, accessibles à des profils non développeurs
 - Capture des gestes mobiles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



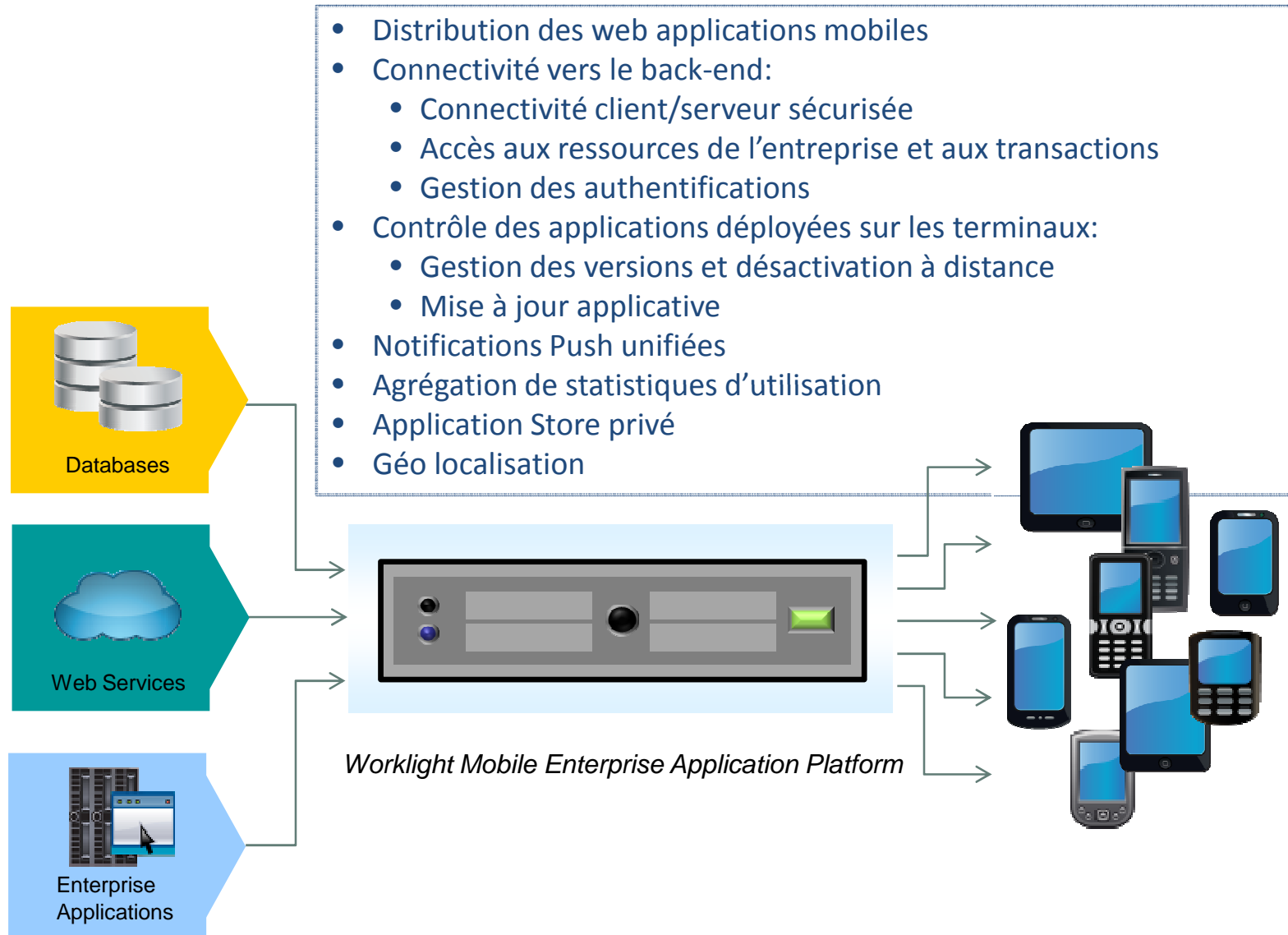
Améliorer la qualité des applications livrées tout en maîtrisant les délais

Un application store privé pour diffuser les applications

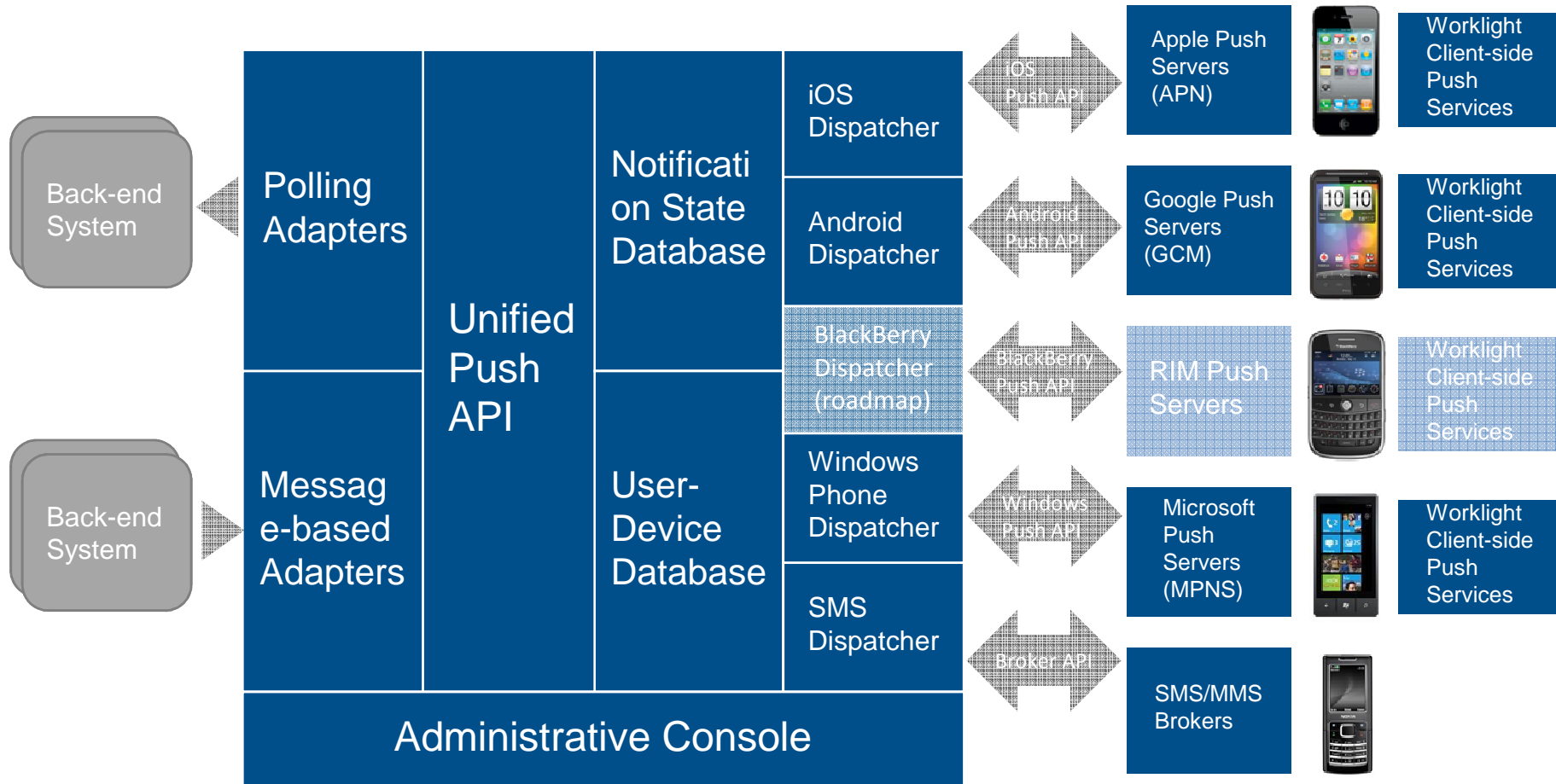
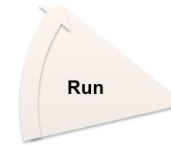


- Contrôle d'accès par ACL, support LDAP
- Visibilité apps déployées par terminal
- Feedback utilisateurs

Worklight Server : middleware mobile



Une gestion unifiée des notifications



Gestion du cycle de vie des apps mobiles



Catalog | **Push Notifications** | **Reports** | **Active Users**

Deploy application or adapter:

MyFeeds

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

<input checked="" type="checkbox"/>	iPhone	Version 1.0	Active	Authenticity Testing: Disabled
<input type="checkbox"/>			<input type="checkbox"/> Lock this version	
<input checked="" type="checkbox"/>	Android	Version 1.2	Active	Authenticity Testing: Disabled
<input type="checkbox"/>			<input type="checkbox"/> Lock this version	
<input checked="" type="checkbox"/>	Android	Version 1.1	Active, Notifying	Authenticity Testing: Disabled
		Notification text (will appear on the device):	<input type="text" value="Version 1.2 has been released"/>	
<input type="checkbox"/>			<input type="checkbox"/> Lock this version	
<input checked="" type="checkbox"/>	Android	Version 1.0	Disabled	Authenticity Testing: Disabled
		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"/>			<input type="checkbox"/> Lock this version	
<input checked="" type="checkbox"/>	Mobile Web	Version 1.0	Get App URL	

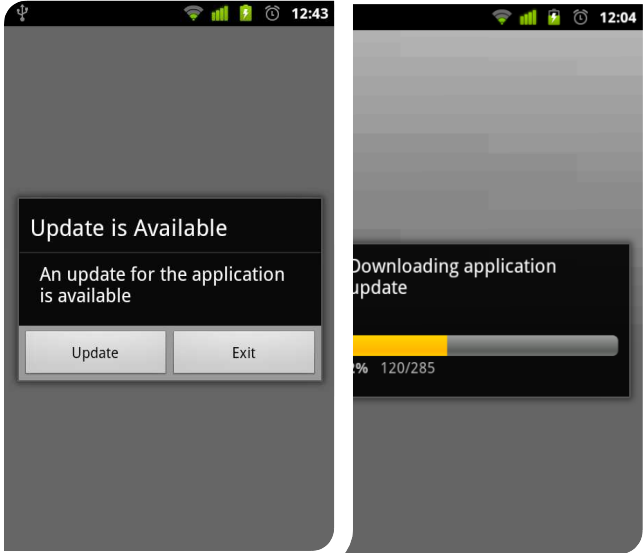
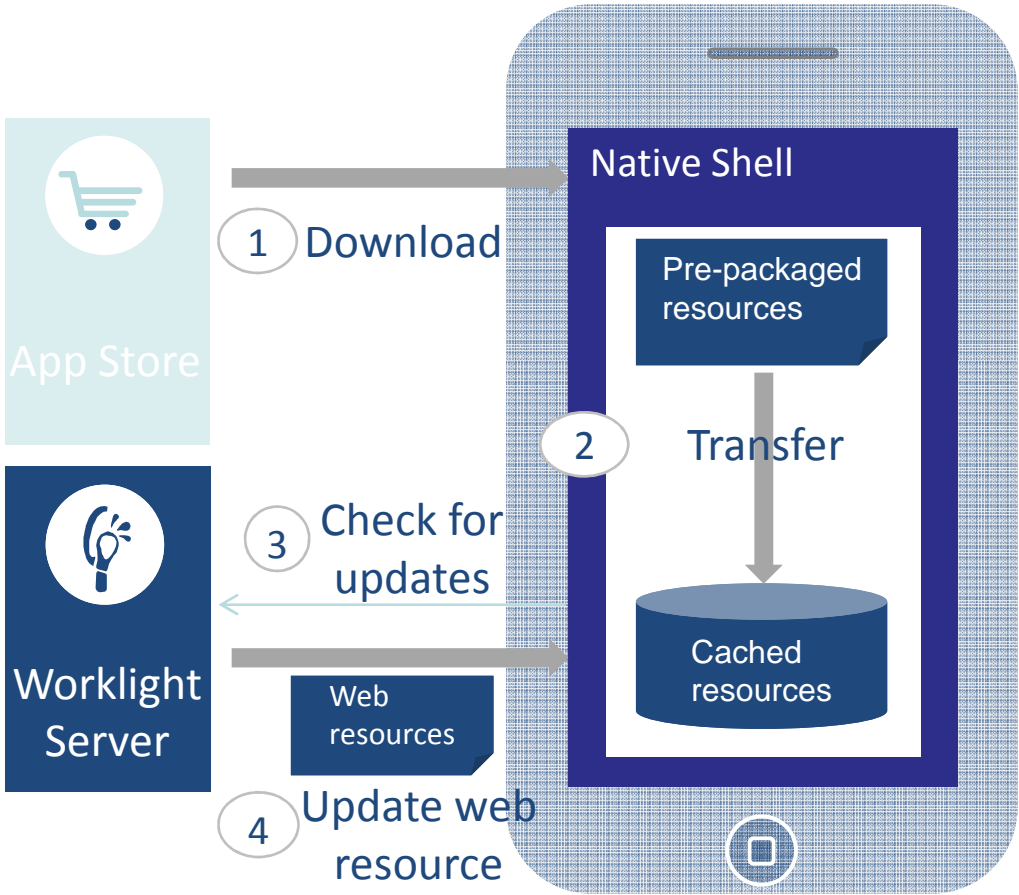
Worklight Starter 3:47 PM

Application Disabled

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

Feeds About

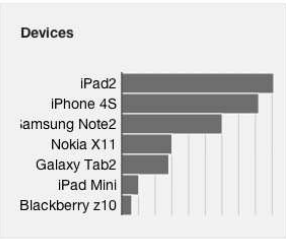
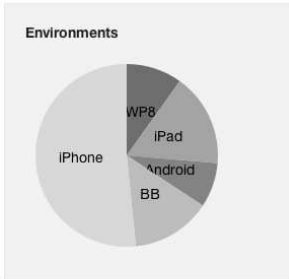
Mise à jour du contenu applicatif



New in Worklight 6.0



Des capacités d'analytique opérationnelle



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

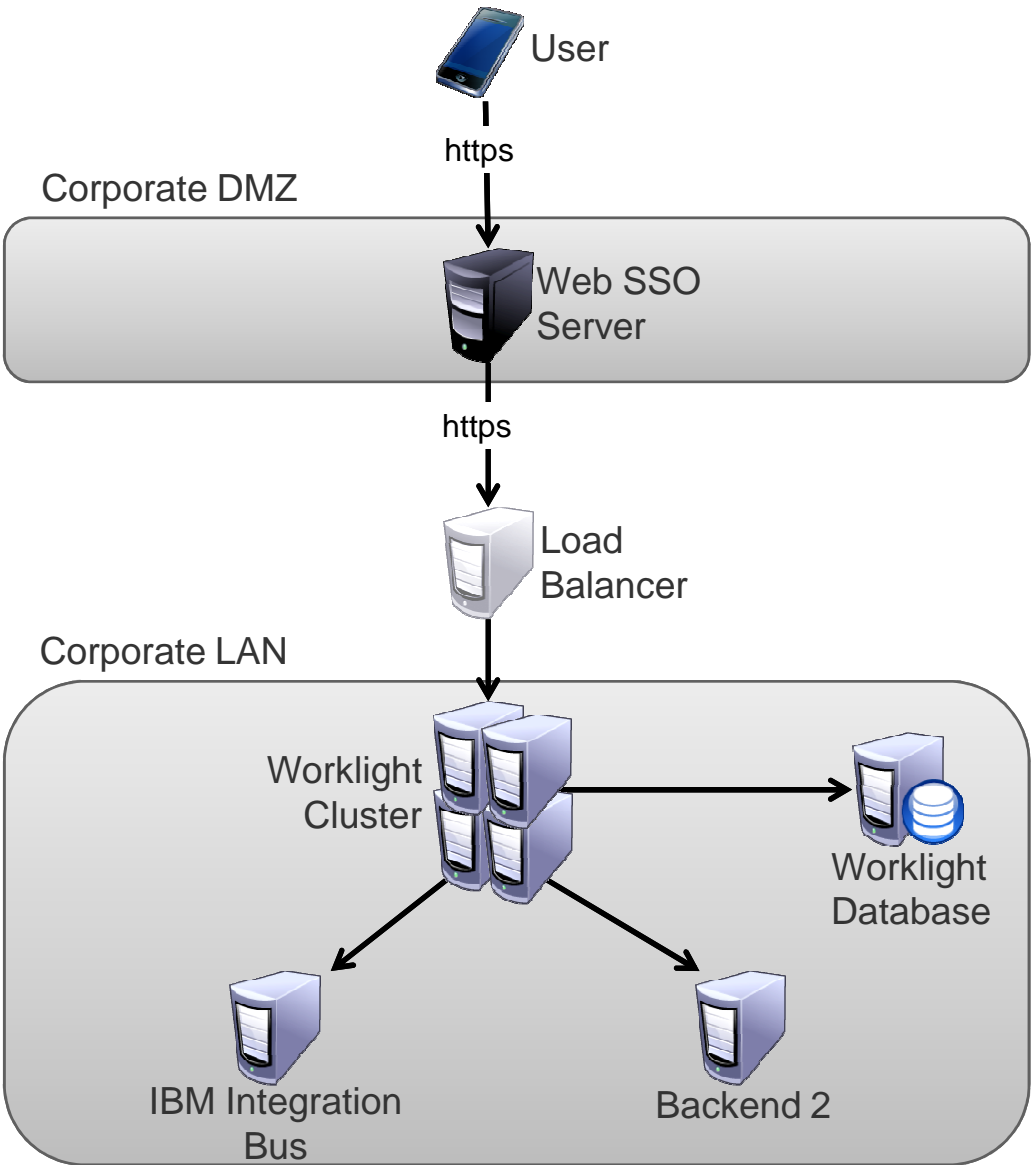


Analytics Dashboard

Server Logs

Timestamp	Thread Id	Severity	Source Class	Method	Message	View Stack
4/11/2013 8:04:04 PM	13	SEVERE	com.worklight.integration.authlib	AuthenticateContext	AnalyticsServiceImpl: badProperties	View Stack
4/11/2013 8:05:53 PM	1	WARNING	com.worklight.common.util.Generics	getBindingProperty	AnalyticsServiceImpl: badProperties	View Stack
4/11/2013 8:05:53 PM	10	INFO	com.worklight.common.util.Generics	APNSMediator	found IP address:19.41.54.148	View Stack
4/11/2013 7:28:34 PM	3	WARNING	com.worklight.common.util.Generics	AuthenticateContext	worklight.FWLEE3305: Application log reports are disabled.	View Stack
4/11/2013 7:28:34 PM	10	WARNING	com.worklight.common.util.Generics	getBindingProperty	AnalyticsServiceImpl: badProperties	View Stack
4/11/2013 7:28:33 PM	11	SEVERE	com.worklight.common.util.Generics	getBindingProperty	worklight.FWLEE3305: Application log reports are disabled.	View Stack
4/11/2013 7:28:33 PM	12	INFO	com.worklight.common.util.Generics	APNSMediator	found IP address:19.41.54.148	View Stack
4/11/2013 7:28:33 PM	1	WARNING	com.worklight.common.util.Generics	getBindingProperty	found IP address:19.41.54.148	View Stack
4/11/2013 7:28:32 PM	2	WARNING	com.worklight.integration.authlib	GCMMediator	AnalyticsServiceImpl: badProperties	View Stack
4/11/2013 7:28:31 PM	6	WARNING	com.worklight.common.util.Generics	getBindingProperty	worklight.FWLEE3305: Application log reports are disabled.	View Stack
4/11/2013 7:28:31 PM	7	INFO	com.worklight.common.util.Generics	AuthenticateContext	AnalyticsServiceImpl: badProperties	View Stack
4/11/2013 7:28:29 PM	9	SEVERE	com.worklight.common.util.Generics	APNSMediator	worklight.FWLEE3305: Application log reports are disabled.	View Stack

IBM Worklight – Topologie typique



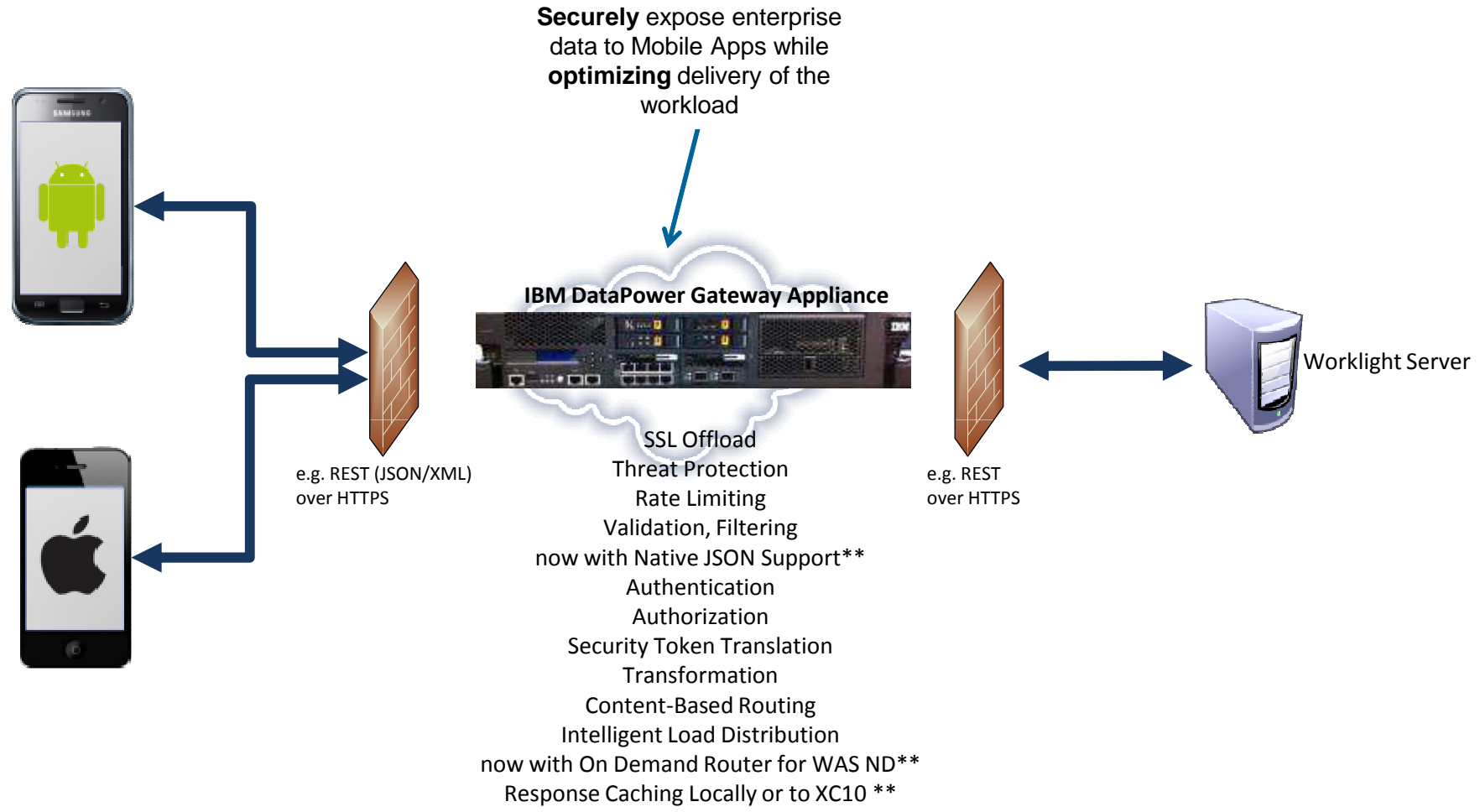
Device Runtime		Application Code
PhoneGap <ul style="list-style-type: none"> • Cross Platform Technology 	Worklight <ul style="list-style-type: none"> • Security and Authentication • Back-end Data Integration • Post-deployment control and Diagnostics 	

Worklight Server		
Server-side Application Code	Stats Aggregation	Client-side App Resources
JSON Translation		<div style="border: 1px solid black; padding: 2px;">Direct Update</div>
Authentication		<div style="border: 1px solid black; padding: 2px;">Mobile Web Apps</div>
Adapter Library		<div style="border: 1px solid black; padding: 2px;">Unified Push Notifications</div>

Synthèse des fonctionnalités couvertes par une MEAP



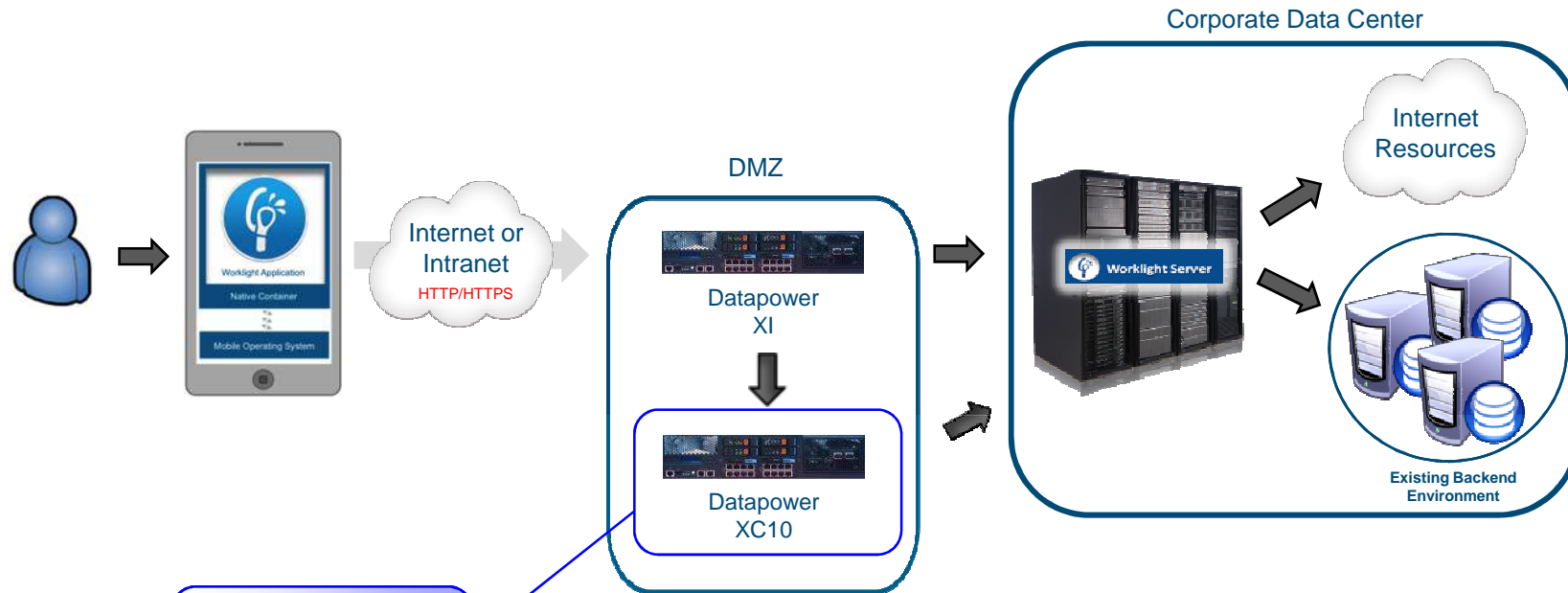
Datapower pour sécuriser les services dans la DMZ



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



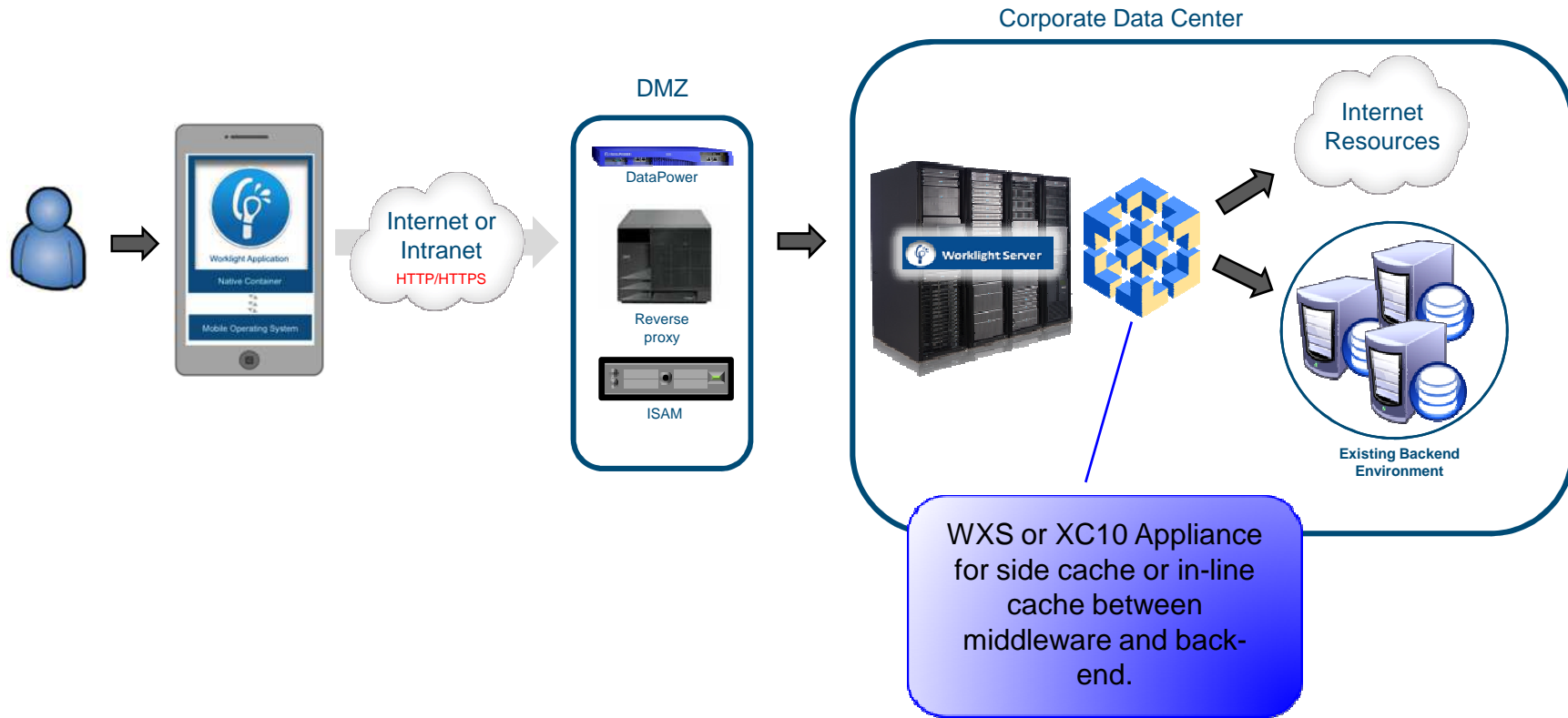
XC10 Appliance
to cache mobile
request.

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

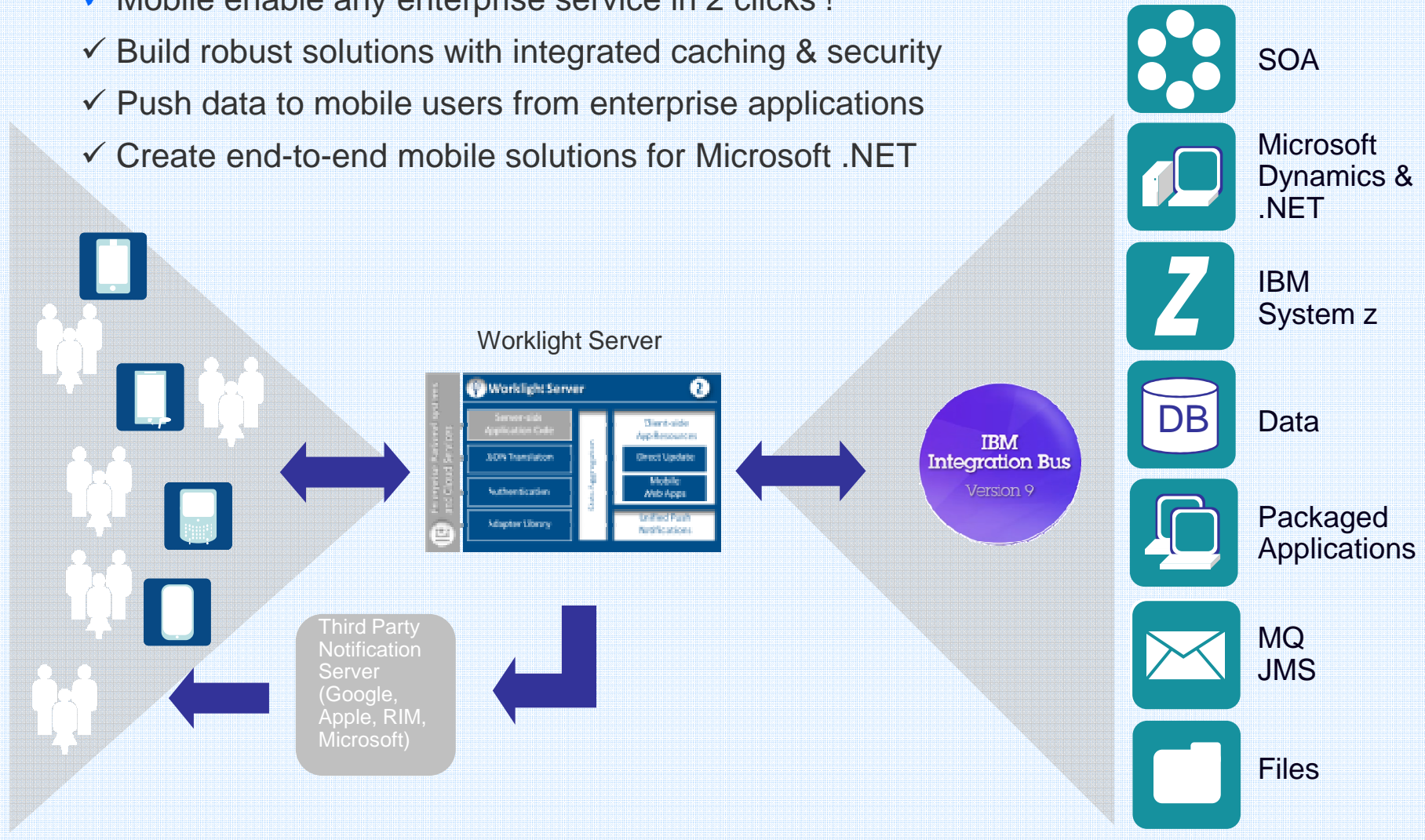
Sur la couche middleware



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



3 façons de démarrer avec IBM

1

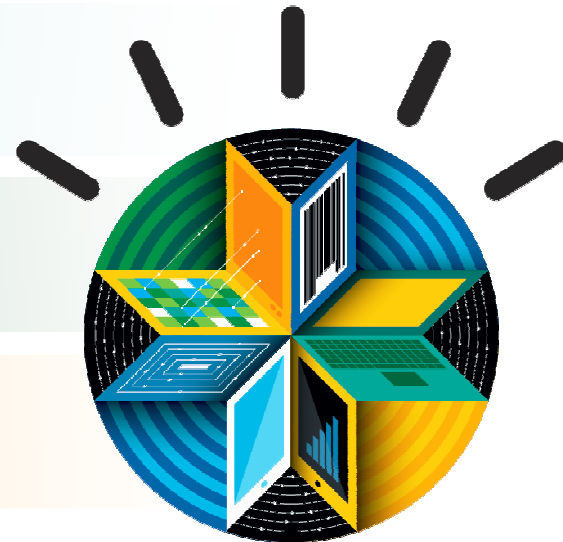
Download the free IBM Worklight Developer Edition: ibm.co/worklightde

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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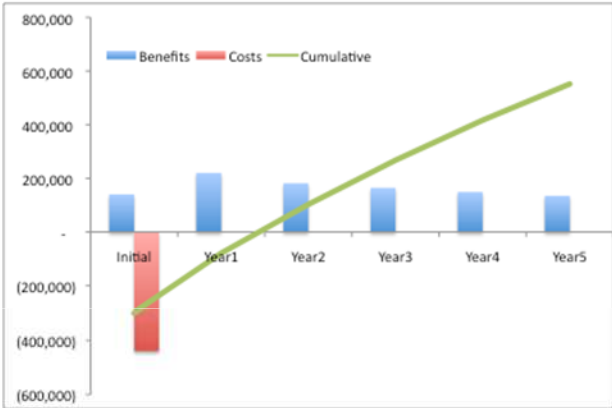


ROI Study of Worklight vs Custom Coding

IBM Worklight decreases the costs of multi-platform app development, integration and maintenance

Five-Year Risk-Adjusted ROI¹

ROI	Payback period	Total benefits (PV)	Total costs (PV)	Net present value
126%	17 months	\$991,022	\$439,344	\$551,678



Source: Forrester Research, Inc.

Cash Flow — Non-Risk-Adjusted

Cash flow — Original estimates								
	Initial	Year 1	Year 2	Year 3	Year 4	Year 5	Total	Present value
Costs	\$431,860						\$431,860	\$431,860
Benefits	\$147,600	\$255,071	\$231,476	\$230,662	\$229,807	\$228,910	\$1,323,526	\$1,043,181
Net benefits	\$(284,261)	\$255,071	\$231,476	\$230,662	\$229,807	\$228,910	\$891,665	\$611,321
ROI	206%							
Payback period	13 months							

Les différentiateurs de la solution Worklight

Basée sur les standards

- Outillage pour le développement HTML 5 et l'adaptation aux terminaux
- Gestion du cycle de vie des artefacts HTML5
- Utilisation des standards de fait pour maximiser compétences et productivité des développeurs

Flexibilité et choix

- Natif / hybride / web
- Couverture complète du mode hybride
- Utilisation du HTML5 et des éco systèmes associés

Prise en main

- Pour les développeurs : prise en main rapide, limitation du nombre de modèles de programmation, JS partout, faible empreinte
- Développement collaboratif
- Installation et déploiement

Sécurité

- Modèle de sécurité flexible
- Intégration avec le portfolio IBM
- Fonction de sécurité embarquées avancées

Eco-système

- Produits IBM utilisent déjà Worklight comme standard mobile
- Catalogue d'API tierces ce cours de réalisation
- Les solutions MobileFirst complémentaires pour tests, analytique, MDM...