

# BlackBerry 10 Beta 3 : The Power of the Integrated Platform Emerges

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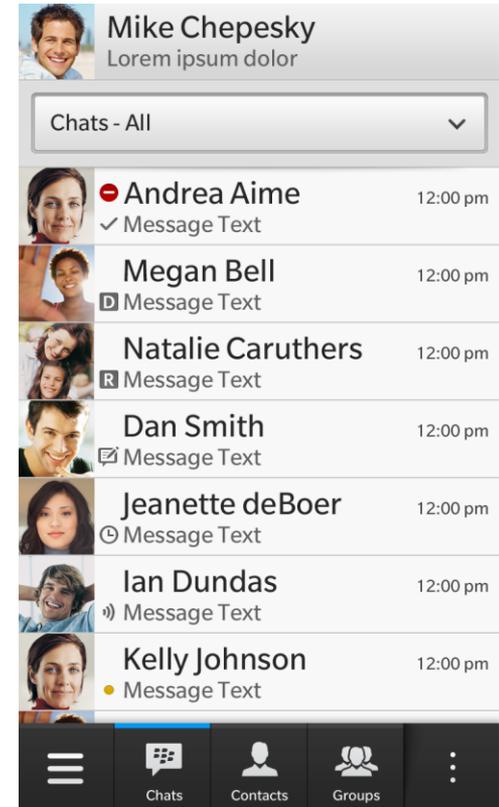
October 11, 2012

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# Platform APIs

# BBM Social Platform Overview

- Exposes BBM features to 3<sup>rd</sup> party applications
- Only registered apps have access to APIs
- Engaging users this way can increase the discoverability and stickiness of your app

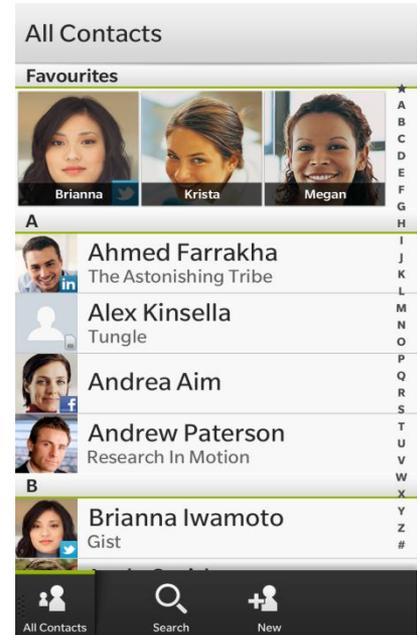


# BBM Social Platform Features

- Access BBM contact lists and user profiles
- Invite BBM contacts to download your app
- Initiate BBM chats
- Add a customizable application box to a user's BBM profile to broadcast achievements or provide updates
- Access BBM contacts via the BBM Contacts Picker

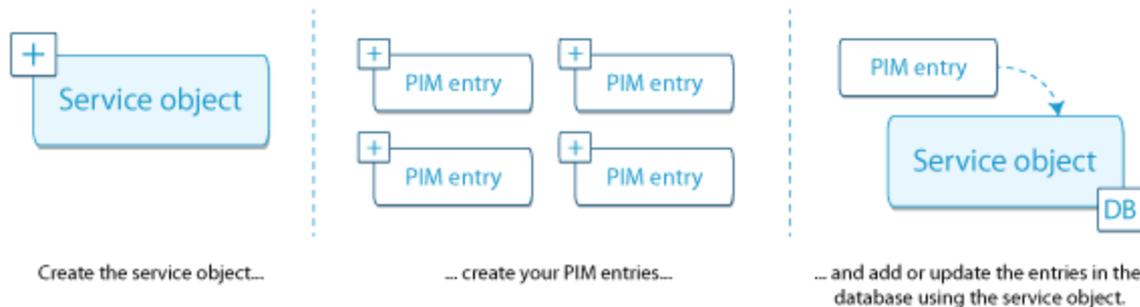
# PIM Overview

- interact with each of the PIM apps: Calendar, Contacts, Notebooks, and the Hub
- add, remove, and modify PIM entries
- Includes Contacts Picker for Cascades applications



# PIM Features

- Each API set is based on an object / service paradigm where data objects are used to add or update the PIM databases via the service object
- For example, one would create a Contact object, set various properties and then use the ContactService object to add the data to the Contacts database



# Push Overview

- receive push messages from a Push Initiator
- Push leverages the invocation framework to launch the app in the background
- Server-side SDKs the same as those for BlackBerry OS
- Can be leveraged to re-architect apps that used to rely on being launched in the background on BlackBerry OS



- create a PushService object
- call createSession() to create a push session.
- call registerToLaunch() or unregisterFromLaunch
- call createChannel() to create a push channel to the push proxy gateway (PPG)
- call subscribeToPushInitiator() to authenticate
- process a push action with a PushNotificationHandler when push data is received

# Invocation With Cards

## Overview

- Cards come in three flavours (previewer, composer, and picker)
- Cards are connected to the invoking application, staying in sync for a more integrated and fluid user experience
- Unlike a viewer, which operates at the window / OpenGL level, a card can present an interactive UI
- Cards can return data to the invoker



## What's Involved

- Setup targets in the app bar descriptor of one of the following types: `card.previewer`, `card.composer`, or `card.picker`
- process `card.ResizeRequested` and `card.Pooled` signals to react to external interactions from invoker
- Upon closing the card, the application must send a `card.DoneMessage` back to the invoker, including any data that must be returned

# Sensors Overview

- Several different sensors are now supported by the APIs:

Accelerometer

Ambient light sensor

Compass

Gyroscope

Holster sensor

Infrared proximity sensor



Light sensor

Magnetometer

Orientation  
sensor

Proximity sensor

Rotation sensor

- Each Sensor is available as a QObject that you can connect to in C++
- Each Sensor is also available as a QML component via the QtMobility.sensors 1.2 package
- Use QSensorFilter to optimize app performance by filtering reading signals to an appropriate level

# Cascades UI Improvements

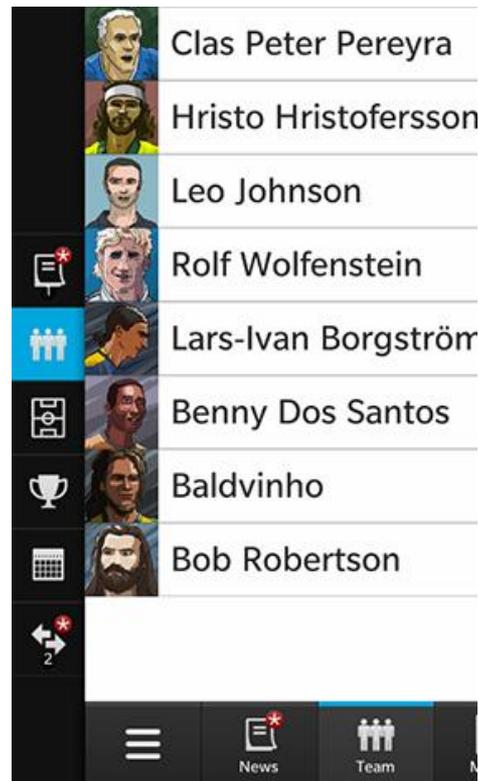
# What's New

- Active Frames
- Dynamic QML loading
- Virtual keyboard support
- ArrayDataModel
- Spell check



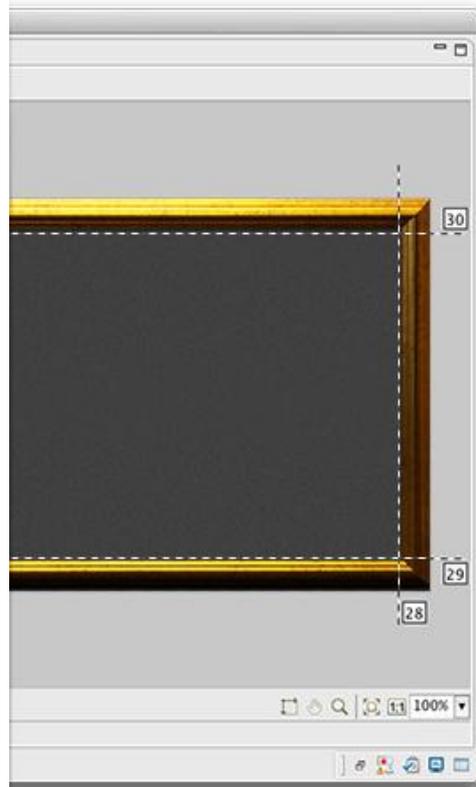
# What's Improved

- Invocations
- Active text
- Menus
- Fonts
- Text Controls
- Peek support
- ListView
- ForeignWindowControl
- Image handling



# Cascades Builder Improvements

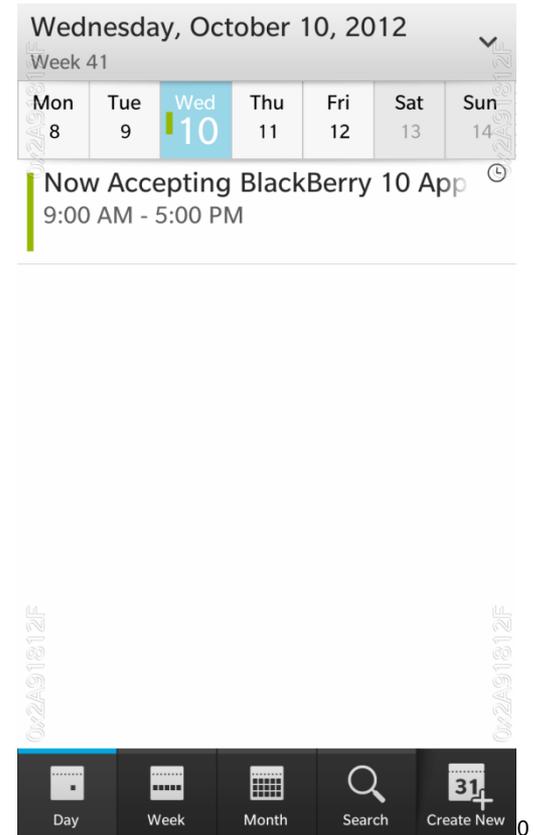
- Limited JavaScript editing and debugging
- Image viewer
- Improved Outline view
- Improved QML editor
- Improved Component palette
- Improved Properties view
- Improved QML Preview



# BlackBerry App World Updates

# Overview

- BlackBerry App World is accepting BlackBerry 10 applications for launch as of October 10
- Early submissions will be reviewed for preferred carousel placement
- Don't forget about the Built for BlackBerry / \$10K Commitment



# Questions and Answers

## Release Notes

[https://developer.blackberry.com/native/beta/download/releasenotes\\_nativesdk/](https://developer.blackberry.com/native/beta/download/releasenotes_nativesdk/)

<https://developer.blackberry.com/cascades/download/releasenotes/>

## Code Samples

<https://github.com/blackberry/Cascades-Samples>

# THANK YOU

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