

# RED HAT JBOSS xPaaS SERVICES FOR OPENSIFT

## FREQUENTLY ASKED QUESTIONS

### INTRODUCTION

The Platform-as-a-Service (PaaS) market is maturing beyond providing basic application container services, with new PaaS offerings now becoming increasingly more specialized. While these emerging specialized services provide more of what enterprise applications need, the fragmentation and complexity of the PaaS space has been a deterrent to enterprise adoption.

Today's business-critical enterprise applications often require complex processes and data from many sources across disparate on-premise, cloud, and hybrid cloud infrastructures. Enterprises need an easier, more unified approach to higher-level integration, business process automation, and mobile services than what is currently available from PaaS providers.

Red Hat is announcing Red Hat® JBoss® xPaaS services for OpenShift, a roadmap for the industry's first unified offering that brings all the necessary services into a single, open PaaS platform and allows development and deployment of modern enterprise applications in the cloud.

Beginning with mobile push notifications, powerful application integration capabilities, and business process management (BPM), JBoss xPaaS services provide a comprehensive open hybrid cloud foundation for modern enterprise applications, with requirements such as mobile clients, legacy and Software-as-a-Service (SaaS) integration, and process orchestration. Organizations can get started today with Red Hat on-premise middleware products such as Red Hat JBoss Fuse, Red Hat JBoss BRMS, and betas of the forthcoming Red Hat JBoss SOA Platform and Red Hat JBoss BPM capabilities, then move to the cloud-based offerings when ready.

Only Red Hat can provide the combination of enterprise-grade middleware, hybrid cloud infrastructure, and the full range of capabilities needed to provide a complete platform for an enterprise's modern application needs.

The first JBoss xPaaS service—mobile push notifications—is available now as a developer preview,<sup>1</sup> with iPaaS and bpmPaaS developer preview versions launching over the next quarter.

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<sup>1</sup> <https://www.openshift.com/quickstarts/aerogear-push-Ox>

## GENERAL QUESTIONS AND ANSWERS

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**QUESTION:** Why is Red Hat making this announcement now?

**ANSWER:** As the leader in open hybrid cloud technology, we're often asked by current and potential customers for our vision and road map for Red Hat JBoss Middleware services for OpenShift beyond Red Hat JBoss Enterprise Application Platform. This announcement is the first step to provide those answers to a large audience and will be followed by developer previews and finally supported, enterprise-ready offerings.

**QUESTION:** What's the relationship between Red Hat JBoss Middleware, Red Hat JBoss xPaaS services, and OpenShift

**ANSWER:** Red Hat JBoss xPaaS services for OpenShift deliver Red Hat JBoss Middleware products in the cloud as services running on OpenShift. These services include mobile PaaS (mPaaS), integration PaaS (iPaaS), and BPM PaaS (bpmPaaS).

**QUESTION:** What products support Red Hat's vision for JBoss xPaaS services?

**ANSWER:** Red Hat JBoss Fuse is a foundation element to the iPaaS offering and is a way to get started developing hybrid cloud integration solutions.

The forthcoming Red Hat JBoss BPM offering, based on technology acquired from Polymita last year, will underpin the bpmPaaS offering.

The AeroGear project, with mobile push notification capabilities in developer preview now, is the starting point for the mPaaS offering.

These products will be augmented with OpenShift by Red Hat capabilities and tooling advancements to create xPaaS offerings.

We plan to keep adding additional Red Hat JBoss Middleware products to the xPaaS offerings in the future.

**QUESTION:** When are the developer preview offerings available?

**ANSWER:** The first JBoss xPaaS service is mobile push notifications, available now as a developer preview at <https://www.openshift.com/quickstarts/aerogear-push-Ox>. Next will be iPaaS and bpmPaaS developer preview versions, launching over the next quarter.

**QUESTION:** Are the developer preview offerings publicly available?

**ANSWER:** The mobile push notifications service is available now to everyone. The developer preview versions for iPaaS and bpmPaaS will also be available publicly.

**QUESTION:** What will be the geographic availability of the developer preview versions?

**ANSWER:** The developer preview versions will be available world-wide.

**QUESTION:** When will supported enterprise products be available?

**ANSWER:** We expect fully-supported products to begin rolling out in 2014, building on the experience gained in the communities and the developer preview offerings.

**QUESTION:** What's the business migration path from Red Hat JBoss Middleware products to these xPaaS offerings? For example, I have a Red Hat JBoss Fuse subscription, but now want to move to iPaaS.

**ANSWER:** Migration paths from Red Hat JBoss Middleware subscriptions to xPaaS offerings will be provided as we get closer to launches of the supported products.

**QUESTION:** How do these products work together under the umbrella xPaaS?

**ANSWER:** Red Hat JBoss Middleware products are designed to work together to solve larger-scale, complex business problems. For example, you may use Red Hat JBoss Fuse as the integration platform, orchestrate applications and services using our forthcoming Red Hat JBoss BPM offering, then add mobile capabilities like push notifications. This level of product integration will also be a feature of JBoss xPaaS offerings.

## INTEGRATION (iPaaS) QUESTIONS AND ANSWERS

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**QUESTION:** What is iPaaS?

**ANSWER:** An iPaaS is a cloud-based platform on which to build, run, and manage integration routes that support application and data integration within and across organizations. This platform can run on a public or private cloud.

iPaaS expands on pre-cloud messaging-based integration to include cloud-based configuration, cloud-based brokers, and cloud-based services.

**QUESTION:** What are the use cases for integration on xPaaS (iPaaS)?

**ANSWER:** At the highest level, iPaaS supports integration of applications, services, and data. Applications may be running on a common cloud platform, running on different cloud platforms (cloud-to-cloud), running in traditional on-premise configurations, or distributed across both cloud and on-premise platforms.

**QUESTION:** Who is the target customer for iPaaS?

**ANSWER:** Target customers will be enterprises that have built or are exploring building applications that take advantage of cloud services and platforms. These enterprises wish to integrate those applications with each other and with existing applications built using traditional approaches.

iPaaS users will be integration developers who are looking to build connections between cloud or traditional applications and data sources using a variety of protocols. Once built, these connections can be used by developers and business analysts to integrate services to create new applications.

**QUESTION:** How much will iPaaS cost?

**ANSWER:** Pricing will be included with future product announcements.

**QUESTION:** What is the value proposition of iPaaS?

**ANSWER:** The value proposition of iPaaS is integration in the cloud—elastic scaling, self service, availability, ease of use, and cost effectiveness. Key benefits of the iPaaS experience compared with traditional approaches are that the developer can more quickly set up and modify integrations using services already running in the cloud, and that the integrations can more easily span hybrid on-premise and cloud environments.

**QUESTION:** What's the technical migration path from Red Hat JBoss Middleware products to these iPaaS offerings?

**ANSWER:** Red Hat's vision of cloud computing is the open hybrid cloud, a hallmark of which is the portability of applications between on-premise and cloud deployments. From a conceptual point of view, our vision for iPaaS is that same portability applied to integration. Enterprises can move some or all of their integration capabilities to iPaaS. The precise details of migration will depend on the unique implementation of integration technologies for each customer.

## BPM (bpmPaaS) QUESTIONS AND ANSWERS

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**QUESTION:** What is bpmPaaS?

**ANSWER:** A bpmPaaS is a cloud-based platform to build, run, and manage business process applications that automate workflows and business processes within and across organizations. This platform can run on a public or private cloud.

**QUESTION:** What are the use cases for business process management (BPM) on xPaaS (bpmPaaS)?

**ANSWER:** We will be targeting three main use cases:

- Process modeling
- BPM platform
- End-to-end process orchestration

**Process modeling** is among the first initiatives taken when implementing BPM. PaaS process modeling refers to the design, simulation, and documentation of a process. For example, in BPMN2 notation, using the Process Designer included in the forthcoming Red Hat JBoss BPM product as a service on OpenShift.

**BPM platform** refers to using the whole functionality of the forthcoming Red Hat JBoss BPM product capabilities to the full cycle of BPM implementation, from modeling to execution, monitoring, rules authoring, and business process improvement. In the same way that you'll be able to use BPM on premise, the PaaS offering will enable you to use BPM capabilities in the cloud, as a service, powered by OpenShift.

**End-to-end process orchestration** refers to a higher-level, more advanced way of creating process-based solutions that orchestrate applications and services available on-premise or in private or public clouds to give you full control of your processes. It's a new way of building enterprise applications that span multiple domains and technologies.

We are considering additional use cases that we'll publish when they are ready.

**QUESTION:** Who is the target customer for bpmPaaS?

**ANSWER:** The ideal customer is the enterprise organization exploring how the cloud can contribute agility and business innovation or one that needs to customize and orchestrate its applications and processes in the cloud.

Among these organizations, bpmPaaS will be attractive for:

- Business analysts, who need tools that can help them conceptualize, model, and analyze business activities.
- Business operations managers, who need intuitive process execution and management tools to run day-to-day operations.
- Business owners, who need rich dashboards with key performance indicators (KPI) that exhibit the health of the business operation.
- Business users, who want to quickly get process-based applications ready without the hassle of setting up complex IT infrastructure .
- IT departments that want to pilot and create proofs of concept (POCs) of process-based applications before deploying them in their private clouds.
- Application developers and architects, who need smooth interoperability with developer tools to implement the business services that are executed by business processes.

**QUESTION:** How much will bpmPaaS cost?

**ANSWER:** Pricing will be included with future product announcements.

**QUESTION:** What is the value proposition of bpmPaaS?

**ANSWER:** Building on the forthcoming Red Hat JBoss BPM product's core value proposition of making business more agile by making it easier to model, implement, and change business processes without changing code, bpmPaaS allows process owners to begin more quickly in the cloud, to share and use models more easily, and to roll out functionality or capacity changes more quickly.

**QUESTION:** What's the technical migration path from Red Hat JBoss Middleware products to these bpmPaaS offerings?

**ANSWER:** It will depend on your specific scenario, but from a conceptual point of view, you can look at bpmPaaS as another environment in addition to your standard production, testing, and development environments. We plan to analyze and define the best paths for migration so these becomes as seamless as possible.

**QUESTION:** Will the process modeling be free to use?

**ANSWER:** Yes, it will be a free offering. Depending on the users response, we'll consider adding new functionality and value added services, some of which may be pay-per-use.

**QUESTION:** Will I be able to migrate my processes between process modeling and on premise, cloud, and bpmPaaS?

**ANSWER:** Yes. The forthcoming Red Hat JBoss BPM offering is engineered so this becomes possible with simple export and import steps; we plan to automate this to make it even more seamless.

## MOBILE (mPaaS) QUESTIONS AND ANSWERS

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**QUESTION:** What is mobile PaaS (mPaaS)?

**ANSWER:** Mobile PaaS is a set of services designed to simplify and accelerate development of enterprise applications that must support mobile device clients. Push notification is the first step in Red Hat's mPaaS rollout. Soon to follow are data encryption, for simplifying the securing of data communicated between devices and the company's back end, and data synchronization, for simplifying support for offline application use on devices.

**QUESTION:** What are the use cases for mobile push notification on xPaaS?

**ANSWER:** Modern applications are optimized for tablets and smart phones and can be built as native apps or mobile web apps used in the browser. Smart phones and tablets can receive alerts—push notifications—through a specific application, including alerts that content is ready, content has changed, or an action is necessary. As enterprises build and modernize applications they will take advantage of this capability and incorporate it into their workflows and application logic.

**QUESTION:** Who is the target customer for mPaaS?

**ANSWER:** The ideal customer for mPaaS is the developer who needs to incorporate mobile push notification into their applications.

**QUESTION:** How much will mPaaS cost?

**ANSWER:** Pricing will be included with future product announcements.

**QUESTION:** What is the value proposition of mPaaS push notification?

**ANSWER:** Instead of having to code to different push notification services provided by mobile OS companies, the developer can program to a single API and send a message that will get transformed, routed, and sent to the proper push notification network(s) for the device(s) running the app that should receive the notification, regardless of the mobile operating system those devices are using.

**QUESTION:** What's the technical migration path from Red Hat JBoss Middleware products to these mPaaS offerings?

**ANSWER:** This is a new capability in the Red Hat JBoss Middleware portfolio, and applications built with the Red Hat JBoss Middleware products can begin to use it.



### ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.



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