

RED HAT PROCESS AUTOMATION

Create cloud-native apps to automate business processes and decisions

DATASHEET

FEATURES

- Cloud-ready architecture
- Rich, standards-based APIs
- Pluggable repository
- Native BPMN 2.0 modeling, simulation, and execution of business processes
- Dynamic case management
- Advanced business activity monitoring, dashboards, and reports
- Embeddable, scalable business process and rules server

BENEFITS

- Automated business operations
- Continuous optimization of business processes
- Accelerated development
- Business process and decision logic separated from application code
- Greater business agility, shorter development cycles, and faster time to market

PRODUCT OVERVIEW

Red Hat® Process Automation is a curated collection of software products from the Red Hat Middleware portfolio that together provide a comprehensive platform for developing cloud-native applications that automate business processes and decisions. The products included are Red Hat Decision Manager, Red Hat Process Automation Manager, and Red Hat Application Runtimes. The solution supports business process management (BPM), business rules management (BRM), business resource optimization, and complex event processing (CEP). In addition, it is compliant with popular industry standards like Business Process Model and Notation 2.0 (BPMN 2.0) and Decision Model and Notation 1.2 (DMN 1.2).

Red Hat Process Automation gives users the ability to capture business policies and procedures, create applications that automate business operations, and measure the results of business activities. It includes easy-to-use graphical tools that foster collaboration between IT and business users and provide better visibility into the rules and procedures that govern business applications.

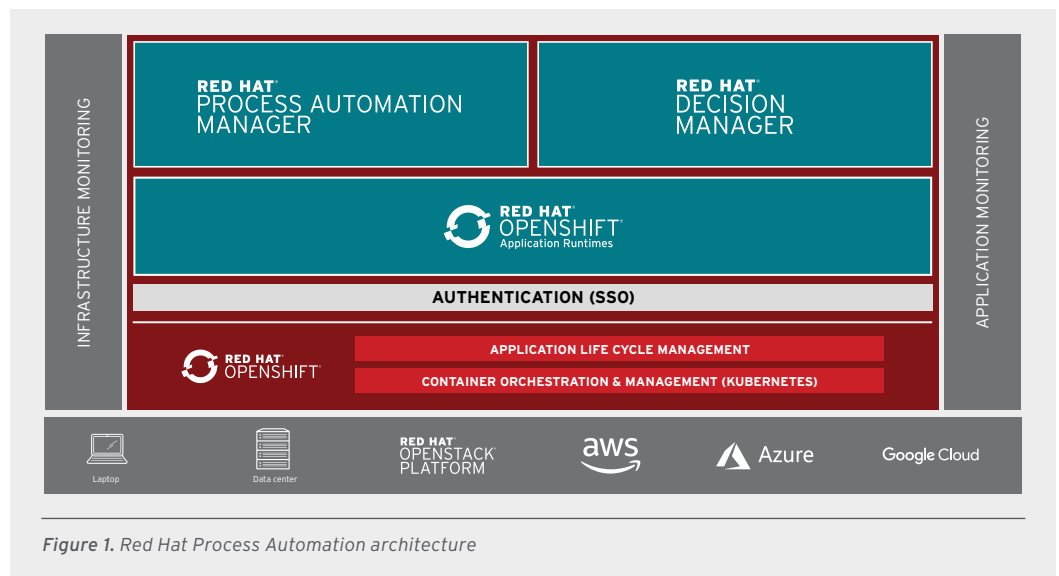


Figure 1. Red Hat Process Automation architecture

Red Hat Process Automation is produced using Red Hat's open source development model and by members of the Drools and jBPM communities. It includes a rich set of application programming interfaces (APIs) that enable straightforward integration with a wide range of complementary solutions. In particular, Process Automation interoperates with Red Hat's portfolio of middleware products, including Red Hat Fuse for integration with external applications.



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FEATURES AND BENEFITS

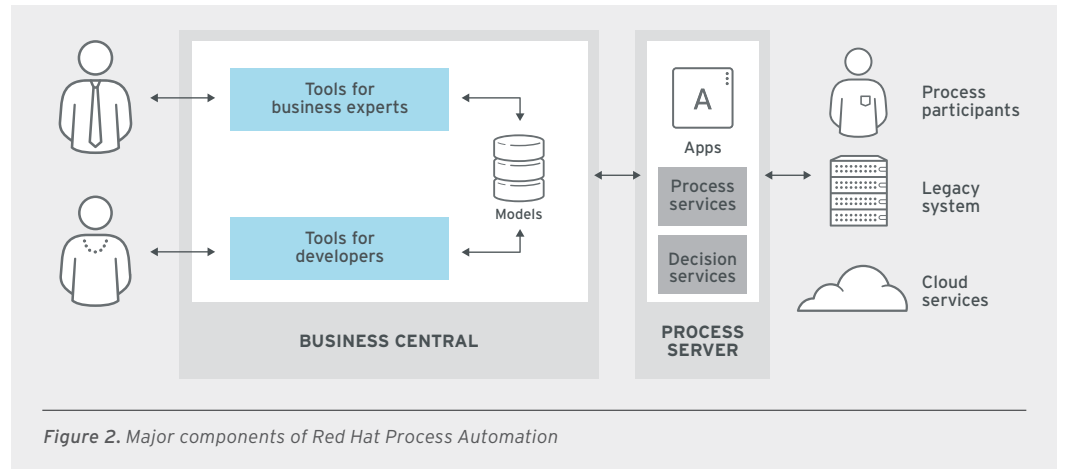
Red Hat Process Automation lets project stakeholders collaborate to build cloud-native business automation applications and microservices with a choice of modeling tools, including a web-based authoring environment for business experts and an Eclipse plug-in for developers. A rich set of easy-to-use tools for process and decision management covers the full process life cycle—from modeling, simulation, and testing to deployment, monitoring, and optimization. Process and decision logic can be modeled and automated together, without the need to learn multiple tools or develop custom integrations between disparate environments.

TABLE 1. FEATURES AND BENEFITS OF RED HAT PROCESS AUTOMATION

KEY FEATURES	BENEFITS
Business modeling	Easy-to-use, web-based tools for business users to create models of business processes and decisions. Tools include BPMN 2.0 process modeling, DMN 1.2 decision modeling, decision tables, guided rules editing, data modeling, and forms designer.
Process services	Powerful runtime environment for execution of process models. Supports execution of BPMN 2.0 process models and Case Management Model and Notation (CMMN) 1.1 case models.
Decision services	Runtime environment for execution of DMN 1.2 decision models and business rules. Includes a powerful rules engine derived from the popular Drools open source project.
Optimization services	Runtime environment for execution of models that solve complex optimization problems such as vehicle routing, shift rostering, and supply chain planning.
User experience (UX) modeling	Easy-to-use tools for business users to rapidly create end-user applications that interact with the runtime services. Includes a flexible set of widgets that handle API calls so that the user can focus on building engaging user experiences for any device.
Cloud-native application development	Cloud-based development tools for cloud-native applications. Red Hat Process Automation supports Red Hat OpenShift® Container Platform to build and deploy containerized microservices applications.

Red Hat Process Automation includes:

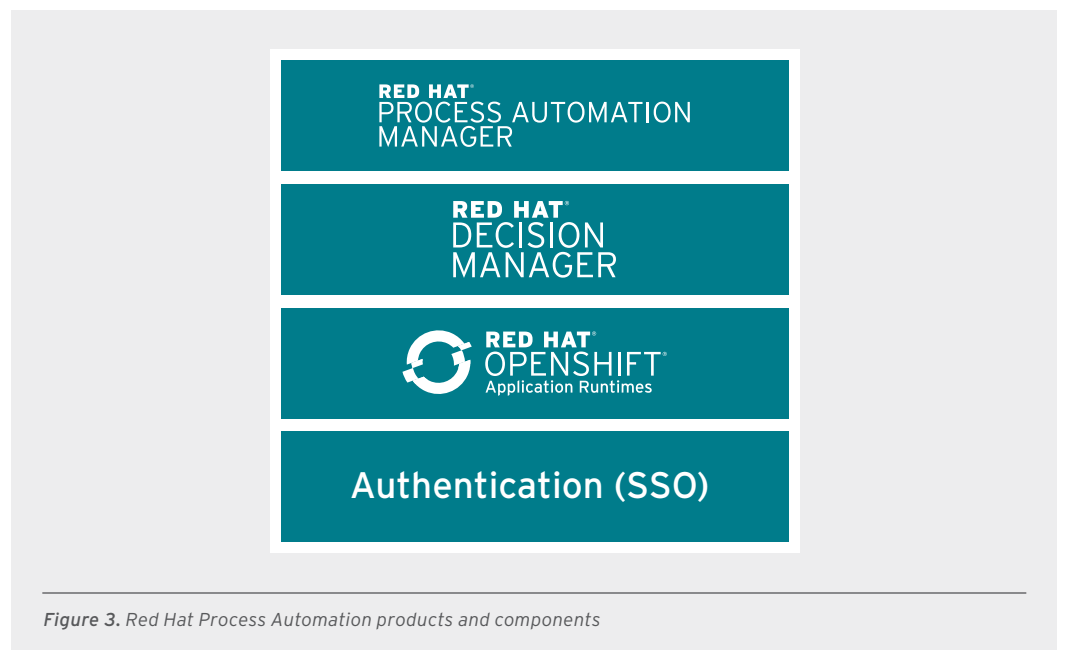
- A set of tools for creating and managing the various components of a business application, including process models, decision models, forms, and data models.
- A repository for storing business models.
- A set of runtime services that supports the execution of business applications.

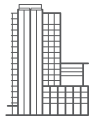


TECHNICAL SPECIFICATIONS

Red Hat Process Automation includes three products from the Red Hat Middleware portfolio that together provide a complete solution for developing cloud-native business applications:

Red Hat Process Automation is offered in quantities for 2, 16, and 64 processing cores and is optionally available packaged with Red Hat OpenShift Container Platform.





ABOUT RED HAT

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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TABLE 2. DESCRIPTIONS OF RED HAT PROCESS AUTOMATION PRODUCTS AND COMPONENTS

PRODUCTS	
Red Hat Process Automation Manager	Platform for developing containerized microservices and applications that automate business decisions and processes. It includes BPM, BRM, and CEP technologies and is compliant complex event processing (CEP) technologies, and is compliant with popular industry standards like business process model and notation 2.0 (BPMN 2.0) and decision model and notation 1.2 (DMN 1.2) for process and decision management. Included also is a user experience platform to create engaging user interfaces for process and decision services with minimal coding.
Red Hat Decision Manager	Platform for developing containerized microservices and applications that automate business decisions. A subset of Process Automation Manager, Decision Manager includes BRM and CEP technologies and is compliant with popular industry standards like decision model and notation 1.2 (DMN 1.2) for decision management.
Red Hat Application Runtimes	<p>RUNTIMES</p> <p>Vert.x. Builds distributed and reactive applications on top of a Java™ Virtual Machine (JVM) using an asynchronous, nonblocking development model.</p> <p>Thorntail. Builds bootable Java applications with only the needed Java EE libraries and bootstrap code. With its MicroProfile compatibility, Thorntail accelerates the transition to microservices using existing Java EE experience.</p> <p>Node.js. Provides a trusted platform for building, hosting, and scaling server-side JavaScript applications.</p>
Authentication (SSO)	Based on the Keycloak project, single sign-on (SSO) enables customers to secure web applications by providing web SSO capabilities based on popular standards such as SAML 2.0, OpenID Connect, and OAuth 2.0. The SSO server can act as a SAML or OpenID Connect-based identity provider, integrating your enterprise user directory or third-party SSO provider for identity information with your applications via standards-based tokens.