

# HPE Operations Orchestration Process Automation Libraries

Accelerate implementation to enable enterprise orchestration

HPE Operations Orchestration software is a next-generation IT process automation solution that is supported across your entire IT environment from traditional data center to cloud.

## Process automation libraries

HPE Operations Orchestration (HPE OO) Process Automation Libraries are collections of add-on content that provide IT automation capabilities to accelerate implementation and improvement of end-to-end process automation in your organization. These libraries consist of content packs with flows and operations encompassing best practices and spanning multiple domains cutting across the entire enterprise IT from traditional to cloud-based infrastructure operations and other functional areas such as development operations (DevOps) and security operations (SecOps). This broad set of IT process automation software libraries enables you to transform your IT to support enterprise-scale orchestration so you can quickly, simply, and reliably develop and deploy your automations.

HPE OO libraries include over 5000 out-of-the-box operations, flows, and integration adapters for task automation and run book automation. They provide the most comprehensive integration capabilities and out-of-the-box content across multiple IT domains such as virtualization, cloud, SAP orchestration, DevOps, and SecOps. These offer you tremendous flexibility in terms of supporting many different platforms and management products including HPE and non-HPE. The comprehensive coverage of integration adapters for systems management products offers you the freedom to use existing products without major tweaks or reprogramming. Refer to Figure 1 for a depiction of the functional areas supported by HPE Operations Orchestration.

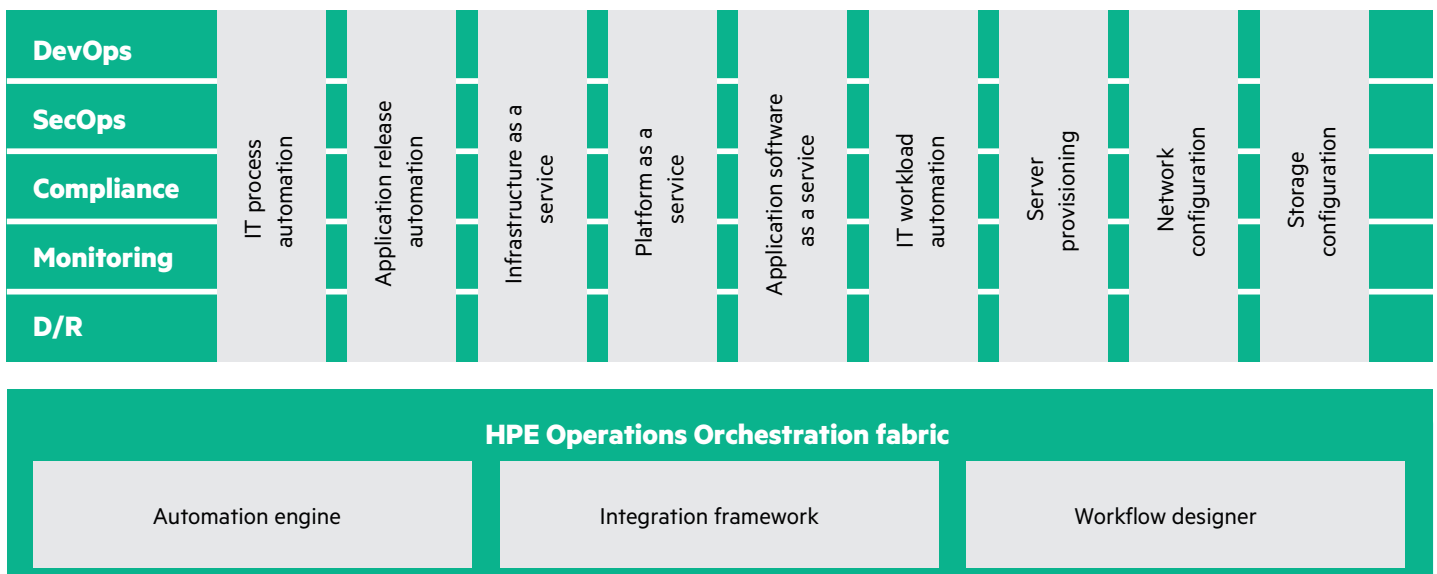


Figure 1. HPE Operations Orchestration integrations

## **IT infrastructure orchestration**

Today, more than ever, IT must drive business services and application efficiencies, availability, and performance. This is addressed by standardizing and automating your routine tasks and IT processes thus providing well-defined services that can be delivered on demand and thereby meet the demands of your customers.

HPE OO offers integrations with various enterprise IT management products and open source tools. This includes HPE BladeSystems and servers, Microsoft® System Center, HPE IT Service Manager, HPE Business Service Management, etc. This comprehensive coverage offers you the freedom to use existing products in your data center accelerating time to value.

## **Cloud and virtualization orchestration**

Starting out with a traditional IT environment, you will need to leverage and take advantage of new capabilities from private and public cloud to support your business growth.

HPE offers out-of-the-box integrations with virtualization software and hybrid cloud environment for accelerated implementation. This includes public cloud such as HPE Cloud, OpenStack, Amazon, and virtualization tools such as VMware and KVM. The content libraries also extend ease of integration by standardizing on Web Services and RES-based APIs providing you flexibility for on-demand deployments and management and extending the automation beyond the traditional IT to a hybrid environment.

## **DevOps orchestration**

The difference in objectives between IT operations and the application team slows down the application release process and introduces quality issues. This adds additional risk to your IT and business. HPE OO enables agile IT by providing content and integration to many Dev-Test tool ecosystems to ease your implementation of application delivery. This is accomplished with integrations with tools such as Groovy and Ant, which allow execution of Groovy or any other scripts of choice within flows to enable seamless integration with existing third-party applications and libraries.

In addition, as part of best practices, HPE OO's one-click deploy solution map provides you a working example of how to enable end-to-end IT process automation and reliably deploy new services and business application code changes from infrastructure to applications across different environment (dev, test, staging, production) with "one click."

## **SecOps orchestration**

As you continue to leverage various IT management tools, establish processes, and organize your automation activities, you will be responsible for providing a level of control and security as required by your organization's policies.

HPE OO integration with HPE Enterprise Security Products such as HPE ArcSight and HPE Fortify helps extend compliance and assurance to your business. HPE OO integration with HPE ArcSight together with HPE Server Automation and HPE Network Automation aids in vulnerability management. HPE OO with HPE Fortify enables flexible application release management while adhering to IT and corporate policies.

## SAP orchestration

As you implement end-to-end process automation, there is a need to enable infrastructure-aware business services and applications in order to provide quality services while enabling agility to your IT and business.

The tight integration between HPE OO and SAP enables your administrators to create HPE OO flows that are integrated with your SAP environment. The HPE OO SAP integration enables communication between your SAP system and HPE Operations Orchestration. In addition, the HPE OO SAP Wizard helps you to accelerate automation of your SAP processes by creating customized flows specific to your SAP environment.

## Implementing ITIL best practices

HPE OO integration with HPE Business Service Management and HPE Service Management offers you best practices to automate your change management process, and address problem management with automated remediation to increase agility and quality of service. This allows for a reliable, repeatable process for delivering a service thereby maturing your process. Refer to Figure 2 on the process automation maturity model adopted from SEI Capability Maturity Model.

	Process maturity	Process automation	
<b>Optimized</b>	Continuous assessment of overall process to achieve the business objectives with minimal risk and cost	Continuous improvement of automated process using metrics analytics, self-learning, and self-remediation	
<b>Measured</b>	Process quality and performance are measured to achieve visibility and predictability	Collect and analyze metrics of the automated processes and measure against the business goals	
<b>Defined</b>	Processes are well characterized and standardized across organization	Central automated process tying activities across the application lifecycle	
<b>Managed</b>	Processes are managed but not standardized	Siloed (tasks vs. process) automation with no central infrastructure	
<b>Initial</b>	Process unpredictable, poorly controlled, and reactive	No or limited automation scoped to few tasks	

**Figure 2.** Process automation maturity model [adopted from SEI Capability Maturity Model]

## Code-generation wizards

Wizards offer your users easy-to-use and intuitive choices for automated flow authoring. The PowerShell wizard discovers the available modules and cmdlets from a target host saving you development time. It helps you avoid having to repeat the same time-consuming process of creating flows that execute PowerShell cmdlet and easily translates PowerShell scripts into HPE OO flows reducing your dependency on PowerShell scripting.

The Web Services wizard helps you to integrate enterprise applications seamlessly and efficiently. The Web Services Wizard uses the standard Web Services description language (WSDL) of your applications and translates the described functionality to flows in HPE OO. It saves you time by generating the HPE OO operations to call the web service and invoke methods.

With the HTTP client library you can interact with RESTful services using REST APIs. You don't need to do any code development or compilation to support REST-based integration.

## For more information

To know more about the next-generation IT process automation and orchestration solution that is supported across the entire IT environment from traditional data center to cloud visit

[hpe.com/software/oo](http://hpe.com/software/oo)

**HPE Live Network Communities:**  
[hpln.hpe.com](http://hpln.hpe.com)

**HPE Software Services:**  
[hpe.com/software/automationservices](http://hpe.com/software/automationservices)

## Process automation library benefits

HPE OO Process Automation Libraries consist of content packs with flows and operations encompassing best practices and spanning multiple domains cutting across the entire enterprise IT from traditional to cloud-based infrastructure operations including:

- Cloud orchestration, DevOps, security operations, disaster recovery, incident automation, and service request fulfillment. It provides the most comprehensive virtualization and cloud support that cover Microsoft® Hyper-V®, VMware, Xen, KVM, Amazon (AWS), OpenStack-based clouds including HPE Cloud, and VMware vCloud Director
- Tools and systems including, but not limited to, monitoring, service management, IP management, hardware interfaces, network devices, and storage
- Applications such as SAP, Apache, IIS, Exchange
- Security products such as HPE ArcSight and HPE Fortify

This comprehensive support can provide you these benefits:

**Application-centric orchestration:** Provides application specific integrations supporting business changes and available wizards to simplify flow creation

**SecOps orchestration:** Provides that the process is both IT- and business-compliant and enables auto-remediation to address IT vulnerability including infrastructure and applications

**DevOps orchestration:** Accelerates the release of application changes across development, test, staging, and production

**Expanded infrastructure orchestration:** Provides content and integrations across the entire traditional IT and cloud fabric

## HPE Software Services: Accelerating Outcomes

HPE Software Services offers a comprehensive portfolio of services, helping you automate and orchestrate your data center and transform to a hybrid delivery service provider. We will help you accelerate your outcomes by ensuring you have the right strategy, the solution expertise and the consumption models to suit your needs.

- Our Advisory Services will set you up on the right path to success. Whether you are looking to take a transformational or incremental approach, our workshops, maturity assessments and roadmap planning services will help you drive a strategy that matches the solution to your business objectives.
- We have the expertise, experience and track record to design and implement solutions that deliver your business goals. Our Orchestrated Data Center, Automation as-a-Service and Hybrid Cloud Management services give you the flexibility to deploy on premise or consume as a service. Should you prefer to run your own projects, our Foundation Services will ensure you have a solid base to build upon.
- Value realization is not just about the technology. Our Education, Management of Organizational Change and Solution Management Services will ensure that you can drive adoption to sustain the value from our technology and services.

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