



## Workday Integration Cloud

In today's hyper-connected world, integrations are more important than ever. Amidst a rapidly evolving IT environment, it's important for your teams to be able to quickly create connectivity between systems.

Traditionally, integrations have been a burden for enterprises in their software deployment journeys in terms of cost and complexity. Workday believes that connectivity between applications and resources should be easy to create and evolve over time.

That's why we developed Workday Integration Cloud—a complete solution for building, deploying, and managing integrations to and from Workday. An integration Platform-as-a-Service, Workday Integration Cloud is a foundational element of the Workday technology stack and powered by an embedded enterprise service bus (ESB) at its core.

To help accelerate your integration development process, Workday Integration Cloud provides:

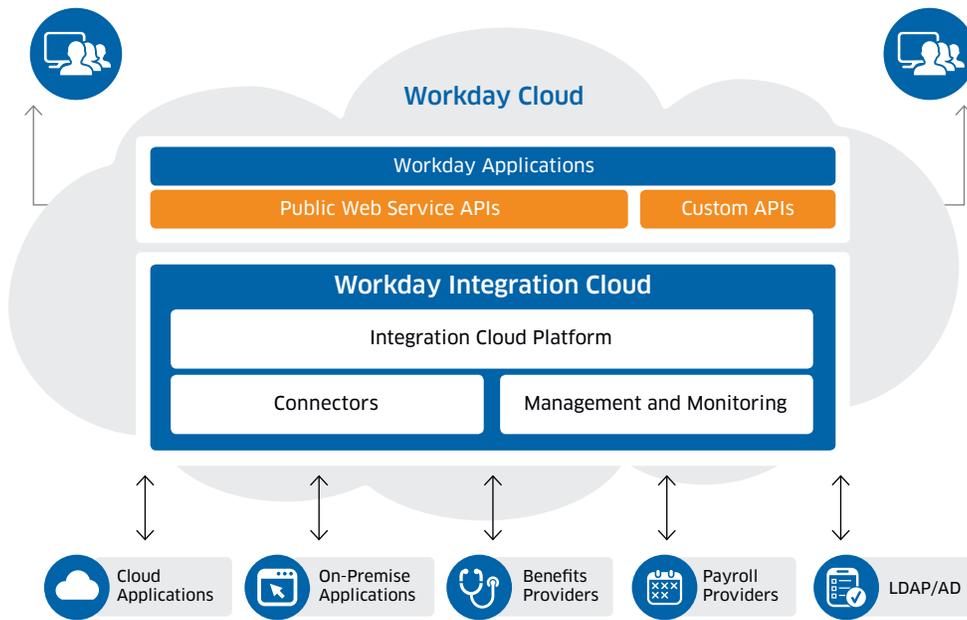
- Connectors: Pre-built integrations to non-Workday systems
  - > Certified connectors: integrations managed by Workday and our partners
  - > Connector toolkits: integration templates
- Development tools for building complex and custom integrations
  - > Enterprise interface builder (EIB)
  - > Workday Studio
- Management and monitoring tools

### Native to Workday

Because integrations work best when they are a native and seamless part of an application platform versus bolted on, we've enabled integrations to be surfaced naturally throughout our applications. You can manage, monitor, and launch integrations all from within the Workday user interface. At the heart of Workday is the business process framework (BPF), a powerful tool for managing workflow across your organization. You can configure the BPF to seamlessly orchestrate integrations, and leverage it for approvals and other workflow steps.

### Key Benefits

- Eliminate the need to own or manage additional on-premise or cloud integration middleware by deploying integrations to the Workday enterprise-class integration platform
- Leverage a catalog of pre-built integrations and integration templates
- Accelerate custom integration development by using tools optimized specifically for creating Workday integrations
- Empower non-technical business users to create custom integrations without coding



**Figure 1.** Workday Integration Cloud

### Streamlined Deployment

Workday Integration Cloud enables you to deploy and run integrations on the scalable Workday cloud infrastructure, simplifying your IT footprint and eliminating the need for on-premise or cloud middleware. For our deployment partners, it helps streamline and speed Workday deployments by enabling integrations built and deployed for multiple customers to all leverage the same technology and tooling. And the [Workday Community](#) portal provides a place to easily collaborate and exchange integrations with other customers because all customers are using the same version of Workday Integration Cloud.

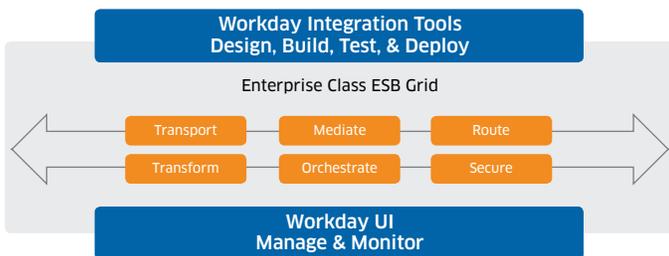
### ESB Enterprise Grid

At the core of Workday integration capabilities is a fully embedded ESB that enables Workday integrations to scale, interconnect, and support the latest industry standards, protocols, and formats. The ESB supports open standards-based connectivity to virtually all types of business applications and data, and is provided as a native part of Workday at no additional cost.

### Tooling and APIs for All Your Integration Needs

We recognize that our customers have a diverse range of integration needs and development skill sets. With this in mind, we provide integration development options that range in complexity from simple configuration to complete build-from-scratch capabilities. Our tools are specifically optimized and continually enhanced to help you efficiently create integrations to and from Workday.

We provide a comprehensive array of hundreds of SOAP and REST-based web service APIs to use when building with Workday Integration Cloud or with your own integration platform. These open APIs provide access to business operations and processes across Workday functional areas, as well as to core reporting capabilities and integration monitoring.



**Figure 2.** Workday Enterprise Interface Builder Use Cases

Workday APIs are fully versioned, ensuring that your integrations continue to function across future Workday updates. Additionally, they're secured by a single security model in Workday that spans all of our applications.

## Overview of Workday Connectors and Tools

To simplify and accelerate the process of integrating with Workday, we provide a series of pre-built and configurable connectors.

### Certified Connectors

Certified connectors are built, implemented, and supported by Workday and our partners. They are adaptable and configurable, and dramatically lower the time required for you to implement integrations by providing everything required to integrate a third-party system with Workday, such as processing logic, data transformation, and error-handling routines.

Certified connectors deliver all the benefits of a fully hosted and managed SaaS application and run on the Workday cloud infrastructure, freeing you from having to maintain separate integration infrastructure.

Workday, in conjunction with our partners, maintains these packaged integrations. We adapt them to address new features and functionality within Workday core applications (for example, compliance updates), as well as update the tooling and technology powering these connectors. Additionally, we work with our partners to manage a joint roadmap to keep connectors up-to-date as their applications evolve.

For a complete list of certified connectors, please visit [marketplace.workday.com](https://marketplace.workday.com).

### Connector Toolkits

To address situations where a pre-built, packaged integration isn't available for a specific third-party application, we provide a collection of configurable connector toolkits to speed the creation of custom integrations. Included with each connector toolkit is all of the processing, logic, and error-handling required on

the Workday side of the integration. Your developers simply complete the integration by writing the logic necessary to connect the third-party system they want to integrate with Workday. With these connectors, your integration specialists also have the flexibility to customize the orchestration of services within the connector to match their specific integration requirements.

## The Enterprise Interface Builder

Enterprise interface builder (EIB) addresses the majority of simple-to-moderately complex integration requirements. We designed the EIB to empower both your IT and non-technical business users to address a variety of integration needs. Accessible from within the Workday user interface, it provides an easy-to-use, guided graphical interface for creating inbound and outbound integrations—without any programming.

## Workday Studio

For custom integrations involving sophisticated requirements, we offer Workday Studio, an integration design tool that provides a functionally rich graphical integration design environment. Your integration specialists can drag and drop a variety of reusable components to handle the routine “plumbing” aspects of building integrations. Integrations created with Workday Studio are deployed to and run on the Workday cloud infrastructure.

## Management and monitoring

Within the Workday user interface (UI), you can manage and monitor all your Workday integrations, regardless of type. The same Workday UI enables both non-technical business users and integration administrators to:

- Launch and schedule integrations
- View and manage past, running, and scheduled integrations
- Create, route, and maintain email notifications based on integration events, such as when integrations launch, complete, or fail
- Configure integration security to control which users can launch, build, and view integrations and their associated data

## Integration Tools Comparison

Enterprise Interface Builder (EIB)	Workday Studio
<ul style="list-style-type: none"><li>• Enables non-technical users to solve many common integration use cases</li><li>• Accessible from directly within the Workday application user interface</li><li>• Easy-to-use, form-based graphical tool with no programming required—appropriate for business users and analysts</li><li>• Export data out of Workday on a one-time or scheduled basis</li><li>• Bulk-perform a large number of tasks or load large amounts of data into Workday using Excel spreadsheets (such as hiring employees, supplier invoices, bonus data)</li><li>• Bulk-maintain for file type and email transport protocols</li></ul>	<ul style="list-style-type: none"><li>• Solves sophisticated and highly customizable integration needs to and from Workday applications</li><li>• Functionally rich graphical development environment, including a drag-and-drop palette of purpose-built packaged components</li><li>• Customizable with Java, Spring, or third-party services</li><li>• Provides a unified framework for building, launching, debugging, monitoring, and troubleshooting</li><li>• Scalable and efficient processing of large data sets (up to tens of gigabytes)</li><li>• Advanced message processing capabilities, including change detection, complex looping, and branching logic based on dynamic data or external variables</li></ul>

### EIB Technical Specifications

#### • Transports

- > SFTP
- > FTP/SSL
- > FTP
- > Email
- > HTTP/SSL
- > AS/2
- > Workday Attachment
- > Amazon Simple Storage
- > SOAP
- > REST

#### • Security

- > PGP (encryption, decryption, and digital signatures)
- > X509 (AS/2 encryption and digital signatures)
- > Amazon KMS

#### • Data Sources

- > Excel spreadsheet
- > Workday web service API
- > Workday custom API

#### • Data Transformations

- > XSLT
- > Visual transformer for configuring fixed-width outbound files

#### • Data Formats

- > XML
- > Excel
- > CSV
- > JavaScript Object Notation (JSON)
- > Google Data (GData)
- > Really Simple Syndication (RSS)
- > HTML

#### • Other

- > File compression
- > Document retention policy
- > File name sequence generator

## Workday Studio Technical Specifications

- **Transports**

- > SOAP
- > REST
- > HTTP/SSL
- > FTP
- > SFTP
- > FTP/SSL
- > Email
- > AS/2
- > Google Cloud Storage
- > Amazon Simple Storage
- > XMPP
- > Custom

- **Data Transformations**

- > XSLT Streaming
- > Text-to-Excel and Excel-to-Text
- > Text-to-XML and XML-to-Text
- > XML-to-Java and Java-to-XML
- > XML-to-CSV and CSV-to-XML
- > XML-to-JSON and JSON-to-XML
- > Formatting Objects Processor for PDF and RTF
- > File character conversions
- > Base64-encoding and decoding
- > BIRT PDF Printing

- **Productivity Tools**

- > Web service message builder and tester
- > WSDL and XML schema explorer
- > XPath expression builder
- > Workday Prism Analytics
- > Salesforce Connector
- > Splitter and aggregator
- > Parallel processing
- > MVEL, XPATH, XSD Validation
- > Custom java
- > Enqueue messages
- > XML diff

- **Security**

- > PGP (encryption, decryption, and digital signatures)
- > x509 (AS/2 encryption and digital signatures)
- > Amazon KMS

- **Other**

- > File compression
- > Document retention policy
- > File name sequence generator
- > Database storage and retrieval
- > Validation
- > Error handling
- > Cloud logging
- > In-memory tables



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