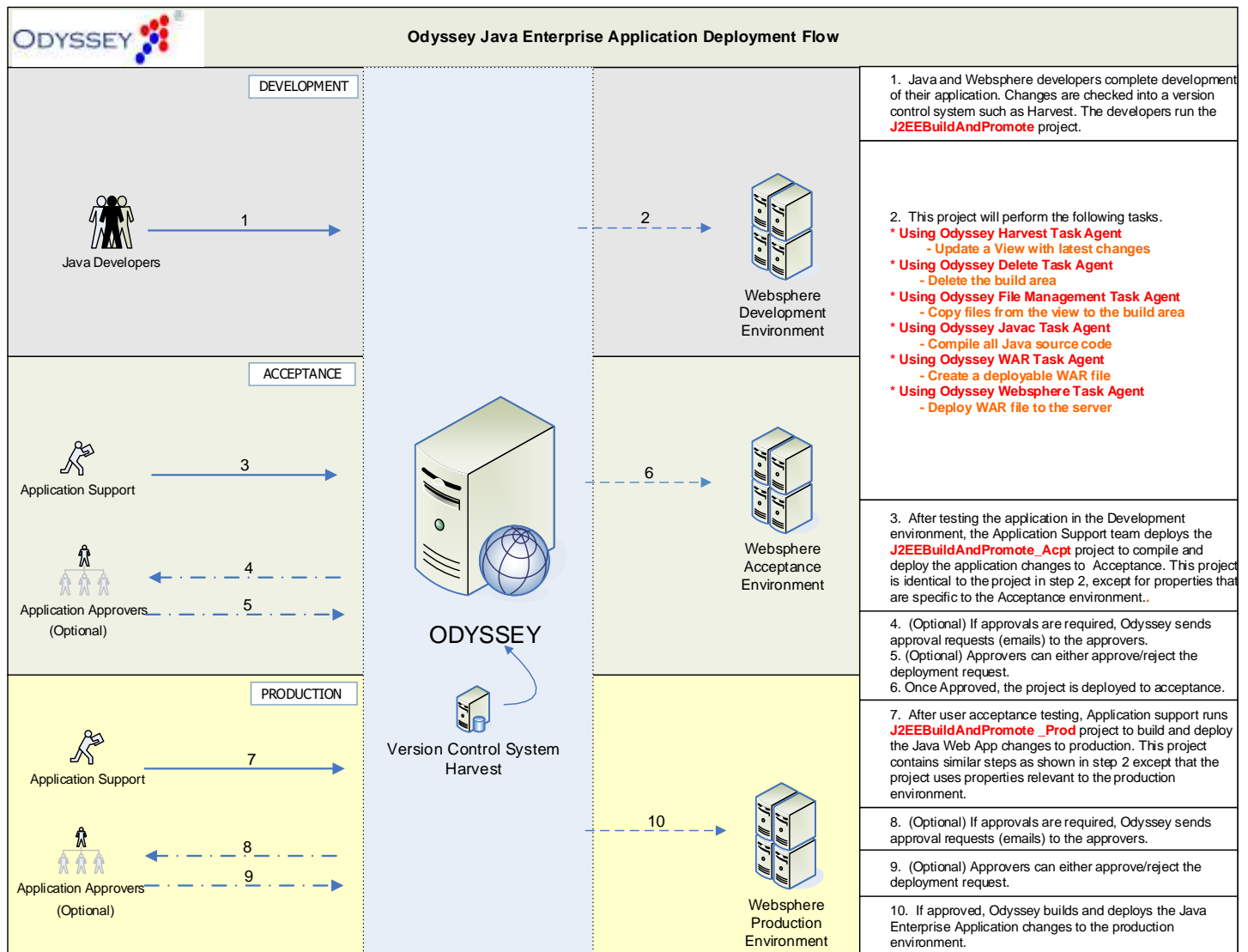# Odyssey Use Case
JEE Application Development

Pantheon's Odyssey Digital Automation Platform tackles the problems of integration, scheduling, routing, approvals, reporting and auditing. Odyssey brings together your existing applications, operating systems, databases in new and exciting ways, and it makes complex interactions faster and more consistent.

This document contains a real-world Use Case of how our customers have used Odyssey to extend their capabilities, bring speed and precision to their work, and allow employees to get more done in less time.

JEE Application Deployment

Odyssey Java Enterprise Application Deployment Flow

DEVELOPMENT

Java Developers

1

2

Websphere Development Environment

ACCEPTANCE

Application Support

3

4

5

Application Approvers (Optional)

6

Websphere Acceptance Environment

PRODUCTION

Application Support

7

8

9

Application Approvers (Optional)

10

Websphere Production Environment

ODYSSEY

Version Control System Harvest

1. Java and Websphere developers complete development of their application. Changes are checked into a version control system such as Harvest. The developers run the **J2EEBuildAndPromote** project.

2. This project will perform the following tasks.
* Using Odyssey Harvest Task Agent
     - Update a View with latest changes
* Using Odyssey Delete Task Agent
     - Delete the build area
* Using Odyssey File Management Task Agent
     - Copy files from the view to the build area
* Using Odyssey Javac Task Agent
     - Compile all Java source code
* Using Odyssey WAR Task Agent
     - Create a deployable WAR file
* Using Odyssey Websphere Task Agent
     - Deploy WAR file to the server

3. After testing the application in the Development environment, the Application Support team deploys the **J2EEBuildAndPromote_Acpt** project to compile and deploy the application changes to Acceptance. This project is identical to the project in step 2, except for properties that are specific to the Acceptance environment.**.**

4. (Optional) If approvals are required, Odyssey sends approval requests (emails) to the approvers.
5. (Optional) Approvers can either approve/reject the deployment request.
6. Once Approved, the project is deployed to acceptance.

7. After user acceptance testing, Application support runs **J2EEBuildAndPromote _Prod** project to build and deploy the Java Web App changes to production. This project contains similar steps as shown in step 2 except that the project uses properties relevant to the production environment.

8. (Optional) If approvals are required, Odyssey sends approval requests (emails) to the approvers.

9. (Optional) Approvers can either approve/reject the deployment request.

10. If approved, Odyssey builds and deploys the Java Enterprise Application changes to the production environment.

Confidential

The customer wanted to add speed and precision to developing, testing, and deploying Java Enterprise/Websphere application changes all while maintaining quality and system integrity. A project was created to speed the majority of the ancillary processes, which are routine but time consuming, freeing personnel to concentrate on areas that required critical thinking and expertise.

The Java Development Team members (Devs) perform their code development and check in their code into Harvest. The Devs then deploy a project that use the Odyssey Harvest Task Agent to get the latest code view, the Odyssey Delete Task Agent to delete the build area, the Odyssey File Management Task Agent to copy from the view to the build area, the Odyssey Java Compile Task Agent to compile the Java source code, the Odyssey WAR Task Agent to create the deployable file, and the Odyssey Websphere Task Agent to deploy the WAR file to a Websphere Dev QA server.

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Dev QA tests the changes in the Dev environment. If it passes their tests, Dev QA deploys a project to begin the next phase. This project is much like the previous one, but has differences in approvals and environments. Because this is leaving Development and proceeding to UAT, the project requires one or more approvals, and Odyssey notifies the Approvers that Dev QA has requested deployment to UAT. The Approvers then review the request and approve (or reject) the deployment. Once again, the project re-builds, migrates and redeploys the WAR to the appropriate Websphere UAT server.

UA tests the changes in the UAT environment. If it passes their tests, UAT deploys a project to begin the next phase. This project is much like the previous two, but has differences in approvals and environments Because this is leaving UAT and proceeding to Production, the project requires one or more approvals, and Odyssey notifies the Approvers that UAT has requested deployment to Production. The Approvers then review the request and approve (or reject) the deployment. Once approved, the project re-builds, migrates and re-deploys WAR to the appropriate Production Websphere server(s). Because this involves more servers and desktops than before, tracking is performed individually per installation.