

iPCD

Continuous Delivery Framework for Pega® Platform

iPCD - Continuous Delivery Framework for Pega Platform

Incessant's iPCD solution provides a Continuous Delivery Framework enabling organizations to respond to increasing business demands by delivering regular releases with a faster time to market. The framework uses Pega 7's Case Management capabilities to orchestrate and automate the application release process. It brings together a number of the key DevOps processes, specifically: Continuous Integration, Scripted Deployment and the Deployment Pipeline.

iPCD has been designed to orchestrate the release process using your existing DevOps & ALM tools, i.e. Jenkins, Bamboo, Selenium, IBM uDeploy, CA RA, CA Agile Central and JIRA whilst utilising the tooling within the Pega Platform.

Business Challenges

- » Inability to respond to the increasing business demands for new features and functionality
- » Long delays in making minor development changes or additions to existing production applications
- » Regimented quarterly release cycles due to lengthy test and regression cycles
- » Inability to innovate at pace

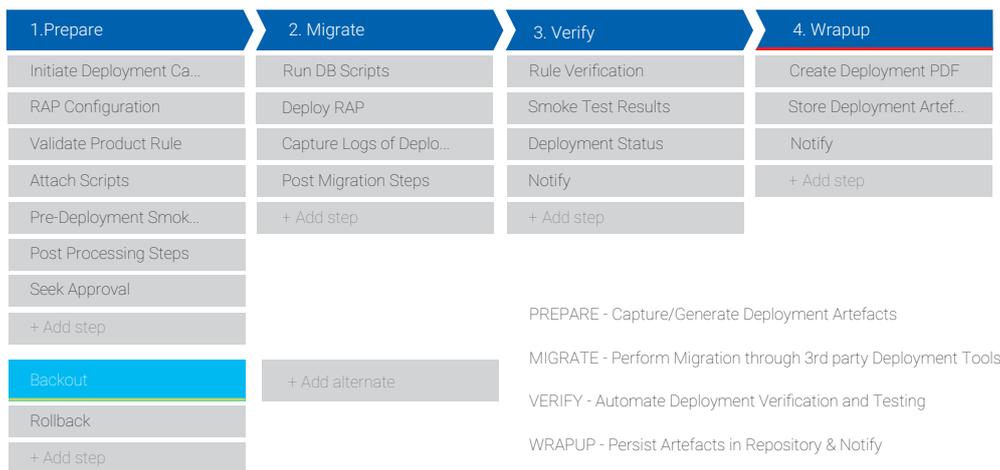
Technical Challenges

- » Lack of cross-functional teams across the Development, Test and Operations organizations
- » Insufficient test coverage and test automation to regression test functionality in a timely manner
- » Lack of environments and a single route to go-live, causing a bottleneck in the delivery cycle
- » Failed builds into upstream environments due to human intensive and error-prone release processes

Solution Overview

iPCD utilizes the Pega 7 Case Management Platform, combined with an organization's incumbent DevOps Tools, to achieve the Automated Build, Automated Test and Automated Deployment of an application. It provides a single view of the Release Orchestration Process across various environments i.e. Development, System Integration Test, System Acceptance Test, User Acceptance Test and Production.

iPCD treats both a Release and a Build as a Case type and through the Case Stages manages the lifecycle of these processes.



Incessant's iPCD framework, maintains the Release & Build hierarchy, where a release can contain multiple builds, some of which may not be Pega related, i.e. Java, .NET. iPCD encapsulates and orchestrates this release process irrespective of the technology components and allows releases to be triggered either manually, or scheduled for a future date of time.

The iPCD solution drives quality through the build and release processes by enforcing Guardrail scores, automating smoke tests, carrying out Rule Compare and automating the release/build note and any associated approval processes.



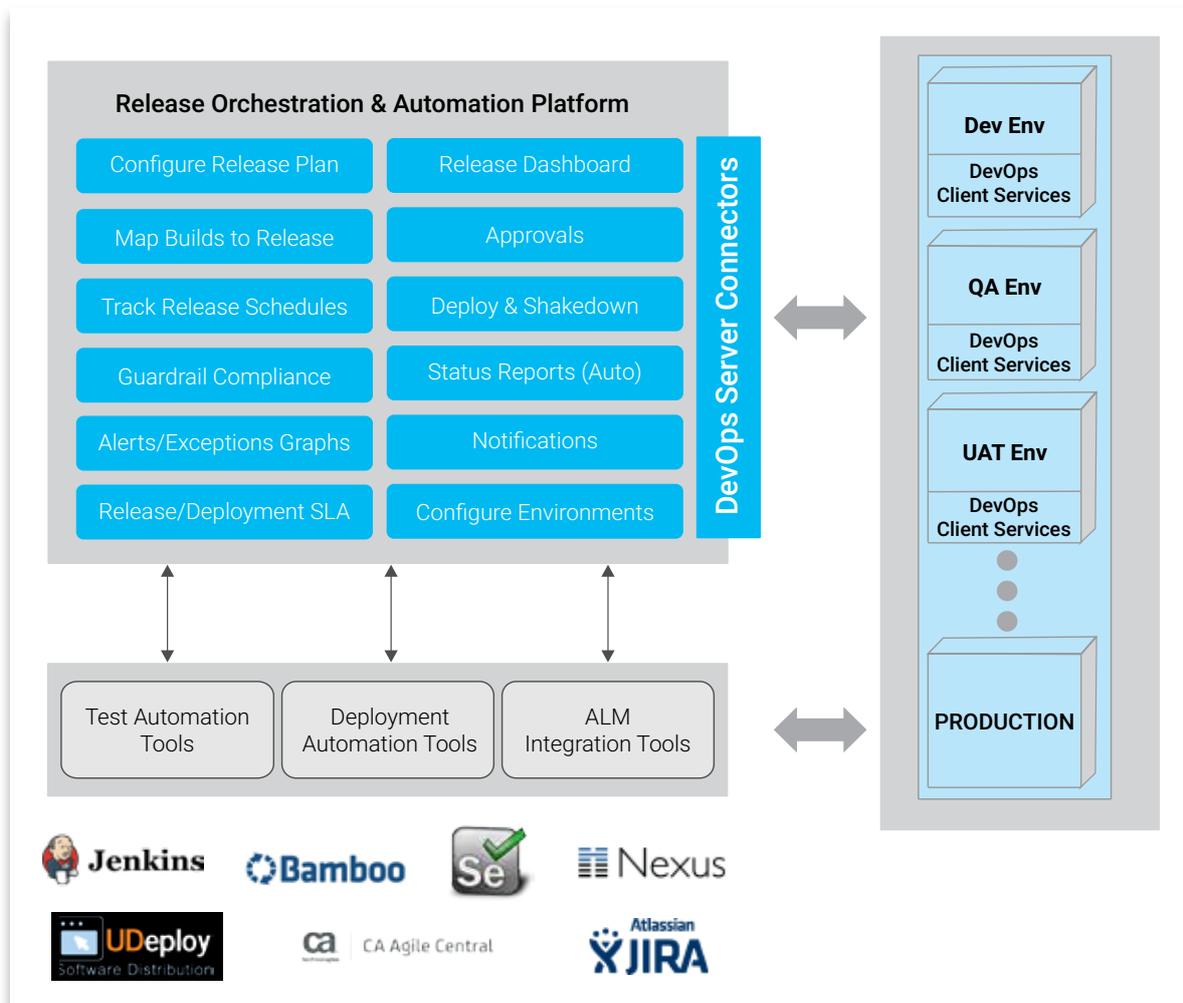
The iPCD framework is designed to run on a separate Pega environment and deploys agents on all the source and target environments. It uses these agents to facilitate application introspection to assess checked out rules, guardrail scores and ruleset versions.

iPCD integrates with the following:

- » Continuous Integration tools - Jenkins and Bamboo
- » Release Automation tools - CA RA and IBM uDeploy
- » Artifactory tools - Nexus Repository
- » Test Automation tools - Selenium
- » ALM tools - JIRA and CA Agile Central

iPCD provides the following insights:

- » Number of builds running in each environment
- » Application Ruleset versions of each Build in a given environment
- » Pega Hot Fix versions in each environment



iPCD Framework Features & Business Benefits

- » Deploy applications with lower risk and fewer failures
- » Management of multiple deployments
- » End to end release governance process across multiple deployment environments
- » 360° view of all environments and build levels
- » Automates quality checks before and after deployment
- » Automated smoke testing before and after deployments
- » Rolls back environments based upon failed deployments or unsuccessful automation test runs
- » Deploys hot fixes to target environments and provides associated details in a consolidated dashboard
- » Integrates with Atlassian JIRA and CA Agile Central to keep Pega Specifications synchronized with ALM toolsets
- » Performs full regression testing where required for each environment

Orchestrating the **Digital** Enterprise™

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About Us

Incessant Technologies, an NIIT Technologies company, helps global organizations realize their Digital Integration goals through the agile delivery of enterprise iBPM solutions. Incessant's Pega® Practice has unmatched certification levels in the industry, thereby providing highly experienced teams on customer engagements. With experience of over 200 successful customer implementations and a suite of Pega Platform productivity solutions, Incessant delivers significant value to its customers in Insurance, Banking & Financial Services, Government and Manufacturing. Orchestrating the Digital Enterprise is at the heart of everything we do. With our expertise in the Pega 7 Platform we deliver CRM, Case Management, RPA and Decisioning solutions that transform organizations into the digital businesses of tomorrow.