Developer Design Document: Octane Integration with QzRelease2

# Objective

This document outlines the integration of the ALM Octane test management platform with QzRelease2 to automate the upload and tracking of automated test execution results.

# System Overview

QzRelease2 is a release automation framework that triggers automated tests and handles test result reporting. This integration ensures that test results are uploaded to Octane for centralized tracking and traceability.

# Architecture

- Client: Python-based CLI tool that interacts with Octane's REST APIs.  
- Target System: ALM Octane.  
- Data Flow: Automated test results -> QzRelease2 -> Octane REST API.

# Key Functionalities

1. Automated Test Result Upload  
2. Test Suite Creation  
3. Application Module Management  
4. Workspace Resolution  
5. Root Application Module ID Resolution

# Octane API Endpoints Used

|  |  |  |  |
| --- | --- | --- | --- |
| Endpoint | Purpose | Method | Frequency |
| /test-results | Upload test results (XML) | POST | Once per batch |
| /test-results/{task\_id} | Poll task status | GET | Up to 5 times per batch |
| /test\_suites | Create or fetch test suite | GET / POST | Once per Jira |
| /application\_modules | Create or fetch app modules | GET / POST | Per module segment |
| /stories?query=... | Fetch story ID from Jira | GET | Once per Jira |
| /automated\_tests | Retrieve uploaded test entities | GET | Once per suite run |
| /automated\_tests/{id} | Update backlog coverage | PUT | Once per test (batched) |
| /suite\_runs | Get suite run metadata | GET | Once per suite post-upload |
| /shared\_spaces/{sid}/workspaces/{wid}/application\_modules?query=name EQ | Fetch module ID by name | GET | Once per workspace |