# IBM ODM V9 Certification Plan

## Purpose

The objective of this initiative is to certify IBM Operational Decision Manager (ODM) version 9 by validating that business rule behavior, performance, and execution traceability remain consistent when upgrading from ODM version 8.11. This certification will ensure that the rating project deployed in ODM 9 functions identically to its 8.11 counterpart, supporting a smooth transition for existing business logic and services.

## Scope

This exercise involves compiling, deploying, and executing a selected rating project across both ODM 8.11 and ODM 9 environments—specifically focusing on Decision Center (DC) and Rule Execution Server (RES). Key metrics such as rule firing sequences, execution response times, and output results will be captured and compared.

## To-Do List

### 1. Preparation Phase

* Identify and select the target rating project for testing.
* Ensure ODM 8.11 environment (DC and RES) is fully operational.
* Ensure ODM 9 environment (DC and RES) is installed and configured.
* Upgrade Java to a version compatible with ODM V9 (e.g., Java 17).

### 2. Baseline Execution in ODM 8.11

* Compile the rating project using Rule Designer for ODM 8.11.
* Deploy the compiled decision artifacts to ODM 8.11 Decision Center.
* Execute test scenarios via ODM 8.11 Rule Execution Server.
* Capture and store:
* - Rule execution results
* - Rule firing sequence logs
* - Execution response times
* - Scenario-based outcomes (happy path)

### 3. Migration to ODM 9

* Reopen the same project in ODM 9 Rule Designer.
* Upgrade the project artifacts and Java configuration to comply with ODM 9.
* Compile the decision artifacts using ODM 9.
* Deploy the upgraded artifacts to ODM 9 Decision Center.
* Execute identical test scenarios in ODM 9 RES.
* Capture and store:
* - Rule execution results
* - Rule firing sequence logs
* - Execution response times
* - Scenario-based outcomes (happy path)

### 4. Comparison and Certification

* Perform a detailed comparison (diff) of:
* - Output results between 8.11 and 9
* - Rule firing sequences
* - Response time metrics
* Document any behavioral changes, regressions, or improvements.
* Validate backward compatibility and consistency.
* Certify the V9 region if all results align with expectations.

### 5. Documentation

* Create a summary report of test execution and observations.
* Highlight key findings, performance benchmarks, and result consistency.
* Include screenshots, logs, and diffs as supporting artifacts.