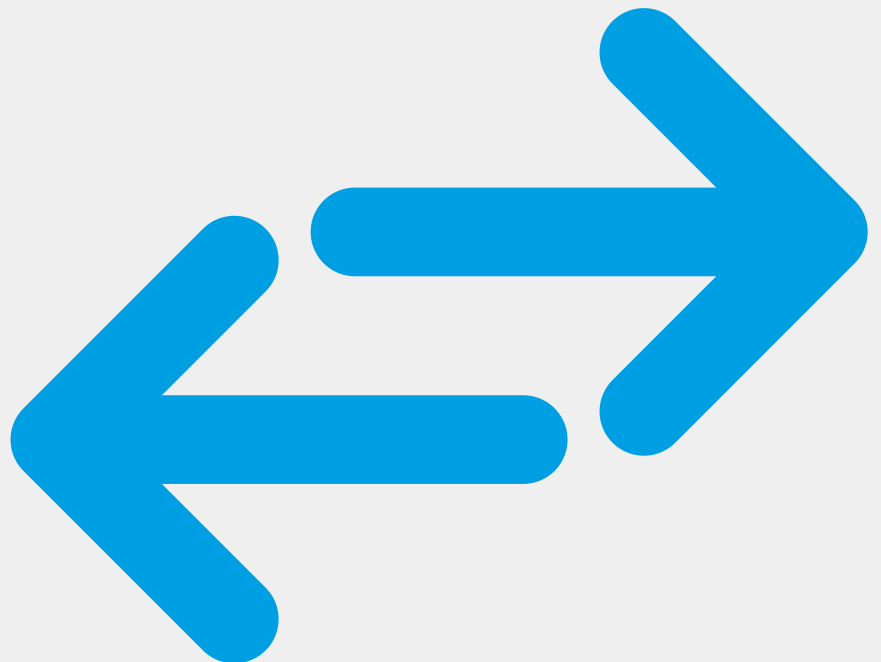


Re_forms ²¹

THE ARCHITECT'S CHECKLIST:

15 Critical Success Factors for Oracle Reports to Jasper Migration



Migrating legacy reports is more than a UI update—it's a structural transformation. Before you start your migration project, use this checklist to identify potential "showstoppers" and ensure 100% logic fidelity.

I. Architectural & Data Scoping

- ☐ 1. Band-Based Logic Alignment: Have you identified summaries that span across different report scopes? (Jasper's declarative model differs from Oracle's procedural model).
- ☐ 2. Data Source Strategy: Will the report remain dependent on the Oracle Database, or are you planning a shift to PostgreSQL/SQL Server?
- ☐ 3. Query Separation: Are there queries embedded in triggers rather than the data model? These must be extracted for automated migration.
- ☐ 4. Evaluation Time Settings: Have you mapped the "look-ahead" requirements (e.g., displaying a total in the header) to Jasper's Evaluation Time properties?

II. PL/SQL & Trigger Logic

- ☐ 5. Format Trigger Audit: How many visual components rely on runtime PL/SQL to change visibility or color?
- ☐ 6. Formula Column Mapping: Are your formulas purely mathematical, or do they call external database packages?
- ☐ 7. Global State Variables: Does the report rely on SRW packages or global variables that need to be replicated in a Java-based Runtime Engine?
- ☐ 8. Trigger Sequencing: Have you documented the exact firing order of Before Report, Between Pages, and After Parameter Form triggers?

III. Layout & Visual Fidelity

- ☐ 9. Boilerplate Text & Frames: Have you identified nested frames that might cause overlapping issues in the Jasper XML model?
- ☐ 10. Conditional Formatting: Are there complex "IF-THEN-ELSE" visual rules that require Java scriptlets instead of simple expressions?
- ☐ 11. Sub-report Dependencies: How many reports are actually "monoliths" containing multiple sub-reports that should be decomposed for better scalability?
- ☐ 12. Font & Character Mapping: Have you accounted for PDF font embedding and character encoding differences between the server-side Oracle engine and Java?

IV. Testing & Integration

- ☐ 13. Automated Logic Verification: Do you have a baseline of "Gold Standard" PDFs from the old system to compare bit-for-bit with the new automated migration output?
- ☐ 14. Parameters & Security: Are the report parameters passed securely via modern REST/Java protocols, replacing the old cgi-bin or rwservlet calls?
- ☐ 15. Performance Benchmarking: Have you tested the rendering speed of complex layouts under peak load in the new Java environment?

How to use this checklist:

- 0-5 items checked: Your migration is likely straightforward.
- 6-10 items checked: You have a moderate complexity project. Manual efforts will likely result in a "Double Testing Cycle."
- 11-15 items checked: You are dealing with a mission-critical monolith. Structural Automation is required to avoid project failure.

Take the Next Step



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