

MODIFIABLE RFP TEMPLATE & VENDOR Q&A RUBRIC | VNA-RFP-001 | Application Stack X to Application Stack Y

Request for Proposals (RFP): PowerBuilder to Oracle APEX Migration & Automated PBL Conversion

Instructions for RFP Author: This template is structured so your IT, Architecture, and Procurement teams can issue a rigorous, apples-to-apples Request for Proposals. Customize the bracketed [Modifiable] fields below or use the companion .md file on the solution portal.

1. Issuing Organization & Procurement Schedule (Modifiable Fields)

RFP Field / Milestone	Modifiable Entry / Target Value
Issuing Organization & Sponsor	[Insert Legal Organization Name, Executive Sponsor & Primary Contact Email]
Project Scope Summary	Transition from Sybase / Appeon PowerBuilder (.pbl, .srd, .srw, DataWindows, PowerScript) to Oracle APEX 24.2, Oracle REST Data Services (ORDS), PL/SQL Packages & AMP
RFP Issue / Q&A; / Proposal Due Dates	[Issue: YYYY-MM-DD] [Vendor Questions Due: +14 Days] [Proposals Due: +30 Days]
Target Contract Type	Fixed-Price Milestone Deliverables with Automated Parity & Cutover Acceptance Gates

2. Mandatory Technical Scope of Work (Modifiable Requirements)

- [REQ-ARCH-01] Automated PBL & SRD/SRW AST Parser: Our reverse-engineering engine unpacks binary .pbl archives into ASCII source objects (.srw windows, .srd DataWindows, .sru user objects, .srm menus) and builds a complete Abstract Syntax Tree (AST) and dependency graph.
- [REQ-ARCH-02] DataWindow-to-APEX Component Compiler: Tabular, Grid, Freeform, and Master-Detail DataWindows are mapped directly to Oracle APEX 24.2 Interactive Grids, Interactive Reports, and Smart Filters. Computed fields and DropDownDataWindows (DDDW) become Shared List of Values (LOVs).
- [REQ-ARCH-03] PowerScript-to-PL/SQL Pushdown: Client-side PowerScript data manipulation and embedded SQL are refactored into compiled, unit-tested Oracle PL/SQL API packages with utPLSQL test harnesses, eliminating chatty client/server network round-trips.
- [REQ-ARCH-04] Enterprise Governance via AMP & SQLcl: All converted APEX workspaces are wired into our Application Management Platform (AMP) for centralized SSO (OIDC/SAML), role-based access control, unified auditing, and automated SQLcl Liquibase CI/CD pipelines.
- [REQ-ARCH-05] Query Fan-Out Rationalization & Runtime/Inference Filtering: Instead of migrating cloned reports and DataWindows 1-for-1, our AST SQL parser clusters queries by their canonical core JOIN graph, builds governed Oracle 23ai views only for those core queries, and generates dynamic WHERE clauses, faceted filters, and ad-hoc report variations at runtime and via AI inference (APEX 24.2 Smart Filters & Select AI).

3. Component Conversion & Acceptance Matrix

Legacy Artifact / Workload	Required Target Architecture	Engineering Method & Acceptance Gate
PowerBuilder DataWindow (.srd - Grid / Tabular)	APEX 24.2 Interactive Grid / Interactive Report	Automated SQL & Column Metadata Compiler
Freeform DataWindow & Window Controls (.srw)	APEX Form Region + Universal Theme 42 Layout	Grid Coordinate Normalization to Responsive Flex/Grid
DropDownDataWindow (DDDW) & Code Tables	APEX Shared Components List of Values (LOV)	Deduplicated Schema-Level LOV Generator

PowerScript ItemChanged / Validate Events	APEX Dynamic Actions + PL/SQL Validation Packages	AST Rule Extraction & Server-Side Pushdown
Non-Visual User Objects (NVO / .sru)	Oracle Database PL/SQL Packages + ORDS REST APIs	AST Transpilation + utPLSQL Automated Test Suite
Composite / Nested Report DataWindows	APEX Office Print (AOP) / BI Publisher PDF Templates	Pixel-Perfect Layout & Bind Variable Mapping
Cloned Reports / Queries Differing Only by WHERE Clause or Group-By (Query Fan-Out)	Canonical Core SQL View + APEX 24.2 Runtime / AI Inference Filters	AST Join-Graph Clustering (75-90% Report Count Reduction)

4. Mandatory Vendor Q&A; Questionnaire & Evaluation Benchmark Key

Bidders must answer each technical question below. Evaluation committee members can compare vendor answers directly against the Reference Benchmark Key:

Vendor Question 1: How do you extract business logic trapped inside PowerBuilder ItemChanged and Clicked events?
[Score: ____ / 10]

Reference Evaluation Benchmark: Our parser decomposes .srw and .sru exports into an Abstract Syntax Tree, separating UI state changes from database validations and DML. UI state toggles become APEX Dynamic Actions, while validations and transactions are compiled into server-side PL/SQL packages.

Vendor Question 2: What if our PowerBuilder application runs on Sybase ASE, SQL Anywhere, or SQL Server instead of Oracle? [Score: ____ / 10]

Reference Evaluation Benchmark: We convert both the database tier (Sybase T-SQL / Watcom-SQL to Oracle Database 23ai PL/SQL) and the PowerBuilder UI tier simultaneously, or connect APEX to your external database via ORDS REST Enabled SQL and database links during phased cutover.

Vendor Question 3: What is included in the downloadable PDF Solution Brief? [Score: ____ / 10]

Reference Evaluation Benchmark: The 4-page PDF Solution Brief includes the complete PowerBuilder-to-APEX AST Reference Architecture, the DataWindow-to-Interactive-Grid mapping matrix, a sample PBL complexity sizing worksheet, and a 12-week phased cutover blueprint.

Vendor Question 4: How do you rationalize report/query fan-out and guarantee 100% customer code & data ownership? [Score: ____ / 10]

Reference Evaluation Benchmark: Vendor must demonstrate AST SQL clustering to collapse cloned queries into governed core views with runtime/AI-inference filters, and deliver 100% customer-owned SQL, PL/SQL, APEX, or cloud code with zero proprietary runtime lock-in.

5. Commercial Milestone Pricing & Evaluation Weighting (Modifiable)

Phase / Deliverable Gate	Required Acceptance Output	Bidder Fixed Fee	Eval Weight
Phase 0: AST Discovery & Blueprint	Complete code/schema AST inventory, dead-code manifest & core SQL fan-out map	\$ [Insert]	20%
Phase 1: Core Schema & Logic Uplift	Target cloud/DB provisioning, automated DDL/code conversion & unit tests	\$ [Insert]	30%
Phase 2: UI, Reports & UAT	Modernized UI/portals, runtime/AOP reports, security VPD/SSO & UAT sign-off	\$ [Insert]	30%

Phase 3: Cutover & Hypercare	Zero-downtime cutover, row/hash reconciliation & 30-day production warranty	\$ [Insert]	20%
------------------------------	---	-------------	-----