



opcircuit DS

Features

- ▼ Configurable economic, failure and risk factors to match the dynamic business & regulatory environment
- ▼ Table-driven algorithms to identify, associate, analyze and resolve critical factors about electrical reliability projects
- ▼ Automatic refresh and recalculation of circuit re-engineering projects to see the impact of new outage, event or inspection information on project scores and priorities
- ▼ Powerful query, filtering and sorting tools to report and prioritize candidate projects using criteria like risk, economics, geographic area and circuit attributes
- ▼ Management reports to assess the latest performance of capital replacement and O&M repair programs

Flexibility & Integration

The OpCircuit DS database can be configured on either an Oracle or MS SQL Server RDBMS platform. The desktop application runs on Windows 2000 or XP workstations.

OpCircuit DS reaches its full potential when integrated with the rest of the OpCircuit™ Product Suite. However, it also functions well as a stand-alone product, integrated with your existing enterprise applications.

OpCircuit DS includes two optional interfaces:

OpCircuit GIS

This interface provides automated facilities to create projects based on geographic attributes or network models. It also allows spatial data like building proximity, service density, or ground cover to be gathered and calculated from your enterprise GIS. OpCircuit DS is architected to interface with all leading GIS platforms, including Autodesk, ESRI, GE Smallworld, & Intergraph.

OpCircuit DS Web Service

External applications (such as an outage management system or a work management system) can send updated information about trips or other events on the network to OpCircuit DS via a standard web service.

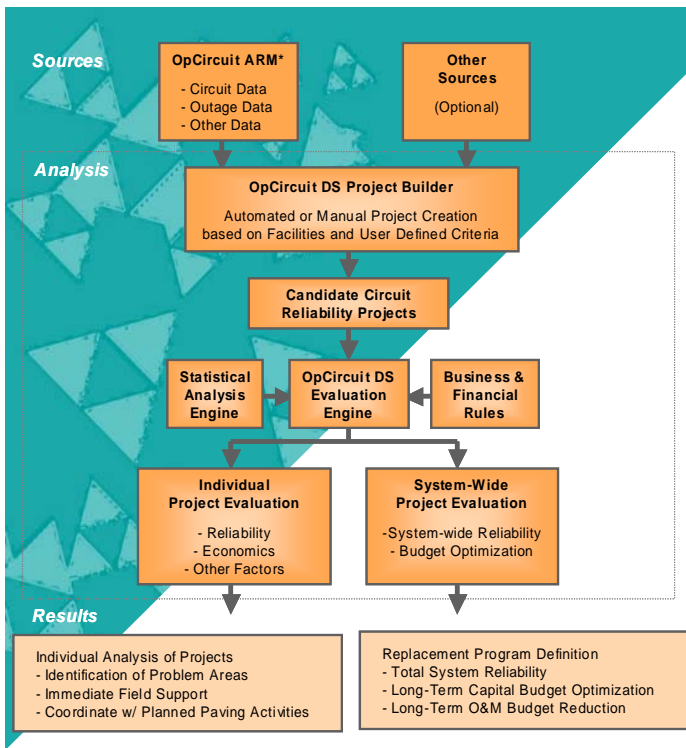


Decision Support

OpCircuit DS enables electric distribution utilities to meet business objectives and stay ahead of evolving distribution integrity regulations by:

- ▼ Providing a systematic knowledge-based framework to evaluate and quantify SAIDI, SAIFI & CAIDI across the network.
- ▼ Dynamically collecting new circuit condition and environmental data to incorporate into risk and economic evaluations
- ▼ Enabling periodic and on-demand system-wide risk assessment and trending
- ▼ Supporting improvements to system-wide reliability by identifying and ranking circuits requiring prevention (pro-active maintenance), detection, and mitigation
- ▼ Recommending optimal system-wide capital and O&M strategies and budgets for all conductor material types.

OpCircuit DS is a comprehensive decision-support solution that provides powerful tools for analyzing, quantifying, and ranking circuits on the basis of reliability, economics and other criteria such as third-party paving.



▼ Statistical Analysis Engine

The Statistical Analysis Engine reads all event reports associated with the projects as well as network attribute information and develops various statistical likelihood values with respect to each project. This engine uses the Failure Factors developed during the historical statistical analysis to establish the initial failure likelihood estimates for circuits with no outage history. As new event report information becomes available, the engine refines the failure likelihood estimates. The values determined are used to estimate future outage restoration costs, as well as the SAIDI & CAIDI impacts for each project.

▼ OpCircuit DS Evaluation Engine

Due to the flexibility of sorting, selecting & filtering projects by virtually any criteria, OpCircuit DS provides almost unlimited approaches for evaluating & developing system-wide reliability, economic & optimal budgeting strategies. This engine, fed by the Statistical Analysis Engine as well as Business & Financial Rules, enables utility companies to develop projects to systematically reduce risk at the lowest economic cost.

▼ Business & Financial Rules

Decisions that result in the replacement of a company's existing assets are influenced by a number of financial factors & business rules. OpCircuit DS performs a discounted cash flow analysis of various alternatives and reflects the optimal program based on company defined business rules.

OpvanteK also offers strategic business consulting services to help our customers develop the factors and business rules that influence network asset replacement.

▼ Individual & System-Wide Project Evaluation

The OpCircuit DS Multi-Project Analyzer provides tools for reviewing, sorting, filtering, selecting & printing any combination of OpCircuit DS Projects.

To learn more about the OpCircuit™ Product Suite contact:



(215) 968-7790
 sales@opvanteK.com
 www.opvanteK.com

Product Architecture

OpCircuit DS provides a powerful set of tools for electronically identifying historical maintenance & circuit condition information from existing data systems & associating it with specific conductors & candidate projects. OpCircuit DS then uses the source data ("factors") associated with each project to perform failure & economic analysis, reliability assessment, and repair vs. replace evaluations.

Listed below are some of the components that comprise the OpCircuit DS solution.

▼ OpCircuit DS Project Builder

To OpCircuit DS, a project is simply a way of establishing a defined scope of conductor so that it can be analyzed & prioritized in terms of its economics & reliability. The OpCircuit DS Project Builder provides several methods to create projects either automatically or manually. After a project has been created, OpCircuit DS uses configurable criteria to collect updated information about the project as changes occur in source tables.

▼ Candidate Circuit Reliability Projects

OpCircuit DS stores the project information in a table that easily converts to a viewable spreadsheet after it is analyzed. All candidate project information is contained in the OpCircuit DS database. Individual projects can be viewed or updated in the OpCircuit DS Project Editor or the Multi-Project Analyzer.