

evolveIT- Automated Analysis and Documentation for Mainframe Systems

Business Challenge

COBOL remains the lifeblood for many large IT organizations applications with nearly 180 billion lines of COBOL code still in production worldwide. Many COBOL applications have grown to millions of lines of intricate code with years or even decades of extensions. This complexity coupled with the fact that documentation has fallen out-of-date, subject matter experts have moved on and the tools used by COBOL analysts are old and inefficient, IT organizations are struggling to respond to the speed of change demanded by the business. Analysis can take days if not weeks and often miss critical logic paths or data dependencies leading to:

- **Spiraling Costs:** Maintenance budgets continue to grow, project timeframes lag for system changes, and new features are too costly to implement.
- **Unpredictable results:** Managers can't effectively plan, scope, or communicate priorities for the development team, hindering their alignment with business priorities.
- **Need to Modernize:** Interdependences make it difficult to segment into logical partitions for modernizing and difficulty in recovering hard fought business rules are buried in the code.

Product Overview

evolveIT provides deep technical and business understanding on how and why your Mainframe applications work. Users can access this intelligence through an array of reports, visualizations, documentation, and querying tools. All of the information is completely interactive within evolveIT's windows interface enabling users to walk step-by-step through the analysis process to the next answer in a fraction of the time than with traditional Mainframe tools. This results in a tremendous time savings as well as a much more comprehensive and accurate understanding of your applications inner-workings.

evolveIT is unique in its ability to analyze even the largest and most complex systems. How good is the tool if you can't rely on the results? Unlike many competitive products, evolveIT resolves all of the "unique" code semantics found in large legacy systems. evolveIT has parsed over a billion lines of COBOL code and is aware of the many compiler version differences that exist in the IBM and ANSI standards.

Business Benefits

evolveIT helps organizations to overcome the short comings of traditional Mainframe analysis tools. Key advantages for IT organizations are:

- **Productivity:** evolveIT replaces the slow, tedious and error prone process of Mainframe scans and reading compiler listings. evolveIT users gather the knowledge they need in their everyday activities in a fraction of the time. This knowledge means that change requests or fixes can be executed faster, cutting up to 75% of the time required to isolate the area of the system impacted.
- **Enable Modernization Projects:** Understand legacy system component and data dependencies to logically segment the application portfolio into manageable pieces and ensuring no disruption to the rest of the application portfolio when decommissioning portions of the legacy system.
- **Regain Management Control:** Accurate separation and understanding of the critical business logic and related technology frameworks impacted by change allows leaders to better plan, prioritize and predict timeframes for tasks involved. It also eases communication between business and technical users, cutting turnaround and rework.
- **Keep up with Brain Drain:** Instant documentation and collected insights about the application makes your entire team 'instant experts'. This shortens the learning curve for new team members by 60% or more.

- **Improve Application Quality:** Pre-built and customizable queries and analytic metrics reveal areas of risk and inefficiencies like: Cyclomatic complexity, bug prediction, dead code, inefficient SQL and much more. Eliminating these issues can dramatically improve developer productivity and slash unnecessary resource consumption.

Features Overview

Automation and visualization of research analysis with evolveIT.

- Central repository of knowledge prebuilt and ready to provide answers in seconds.
- Single view of all system components and one click component relationship information for understanding system dependencies and interfaces.
- Interactive user interface: all queries, reports, diagrams, code listing are completely interactive allowing the user to drill up or down in any direction to gather the next piece of information point-to-point.
- Quick query any system component or multiple components to find any data or code element in the entire system or just a few highly targeted components. Use regular expressions for more precise searches and answers.
- Pre-built library of queries, reports and diagrams provide a head-start for analysts investigating common development tasks or quality issues.
- Sophisticated impact analysis resolves all data references, even if naming conventions were not consistent, to avoid unintended repercussions stemming from changes to code.
- Rich, synchronized, always-current, and interactive visualizations allow users to get 'up to speed' on even the most complex applications.
- Trace data flow and logic across the system, even when the data has different names.
- Data usage analysis engine finds data usage within programs and shows the analyst exactly where to look.
- Diagram code to show program flow, data accessed, and any other aspect of a program.

Regain control over projects

- Map key processes separating control flow logic from key business logic.
- Complexity and other assessment metric reports allow managers to understand areas of risk and plan modernization options.
- One button repository refresh ensuring accuracy of the information.
- Proprietary enterprise-class repository allows even the large applications to be modeled and shared across development teams and multiple locations.
- Users can share analysis results: diagrams, queries, reports, and notes to ensure that even junior team members can be experts on existing applications.
- Customizable and shareable diagrams and reports allow entire development team to use common best practices and yield consistent results.

Contact blackboxIT

1-800-860-8826

[mailto: sales@blackboxIT.com](mailto:sales@blackboxIT.com)



www.blackboxIT.com