Rocket® software

Rocket® COBOL Analyzer

(formerly a Micro Focus® product)

Rocket COBOL Analyzer is a powerful code analysis and visualization toolset, designed to address the challenges of working with largescale, complex applications. It offers an inventory-wide understanding of business applications, their relationships and dependencies, providing invaluable application insight to executives, developers and analysts. With its integrated GenAI assistance and centralized knowledge repository, Rocket COBOL Analyzer helps IT teams plan and implement changes confidently by ensuring a complete understanding of their impact across the entire codebase.

Business challenge

Every major business process — from financial reporting to customer management — depends on software applications. They must be efficient, reliable, compliant and flexible enough to support new business requirements. But these applications have been developed over many years or even decades, across diverse environments, and enhanced under tight time pressures. Documentation is rarely current and system experts have often moved on. The complexity of these systems and limited insight into the application portfolio can lead to:

01 **A lack of subject matter expertise**

Retiring SMEs leave a knowledge gap and with limited documentation, new application development is put at risk.

02 **Costly development processes**

Global development teams can spend 80% and more of IT budgets on application maintenance activities, diverting resources from new innovation.

03 **Inconsistent information**

Limited visibility between the analysis and development phase leads to risky application change and costly re-work.

04 **Stalled modernization projects**

Businesses recognize the value of modernizing application portfolios, but cannot do so without the insight to prioritize and scope these high-value activities.

05 **Slow turnaround on business change requests**

Applications are too complex to be adapted quickly and without risk. In addition, business users and IT struggle to translate business needs into development requirements.

How Rocket COBOL Analyzer can help

Rocket COBOL Analyzer* is a comprehensive analysis solution designed for applications written in Rocket Visual COBOL. It enables developers, analysts and executives to achieve a deeper understanding of the application portfolio providing business and technical insight across applications with information stored in a secure, centralized repository. By combining static code analysis with GenAI assistance, developers of any background can easily understand COBOL code, even without documentation or a subject matter expert present. Rocket COBOL Analyzer enables IT teams to identify, prioritize and implement application change activities that align with current business needs.

Key features

01 NEW GenAI-Powered insights

By combining GenAI capabilities with static code analysis, Rocket COBOL Analyzer offers a powerful solution for understanding even the most complex COBOL codebases.

- Ask questions about COBOL code in natural language through the chat interface.
- Get instant context for any code snippet or function.
- Automatically generate comprehensive documentation for COBOL programs, including relationships, data files, and more.

02 Application insight at the point of change

Developers are able to continuously analyze their code before and after making changes on their local environment and before committing that changes to the source control management stream.

03 Scalable application repository

Rocket COBOL Analyzer is built on an industry standard relational database management system (RDBMS) for centralized storage of application information.

04 Application visualization

Intuitive, synchronized and interactive visualizations ensure that developers receive current code change updates on even the most complex applications by visualizing:

- How applications fit into the inventory, their dependencies and relationships.
- Program structure with fast navigation to areas of interest.
- The impact of application change within programs, data flows and source modules.

05 Change analyzer

This tool will provide all the code that is affected by the planned code change event. Users can then easily investigate and take next steps to complete that code change activity.

06 Powerful, fully customizable code search facilities

A pre-built query library includes a set of common queries to locate points of interest in the application code. These are fully customizable and the results can be shared with application developers to improve visibility to code change. Built-in queries include coding standards, performance optimizations and migrations issues discovery related searches.

07 In-depth analysis tools

Enable code analysis modules, across the application portfolio and within specific areas of interest including:

- Application and program level understanding using extensive metrics, reports, diagrammatic views and querying tools.
- Comprehensive tools to analyze and determine the impact of code change within an application inventory, tracing impacts through code, data, report and application interfaces.
- Portability and migration assessments to help assess portfolio inventory, key metrics and risk areas for application replatforming, product upgrade and modernization projects.
- Standard code quality queries serving as guidance to improve code quality practice across development and maintenance phases.

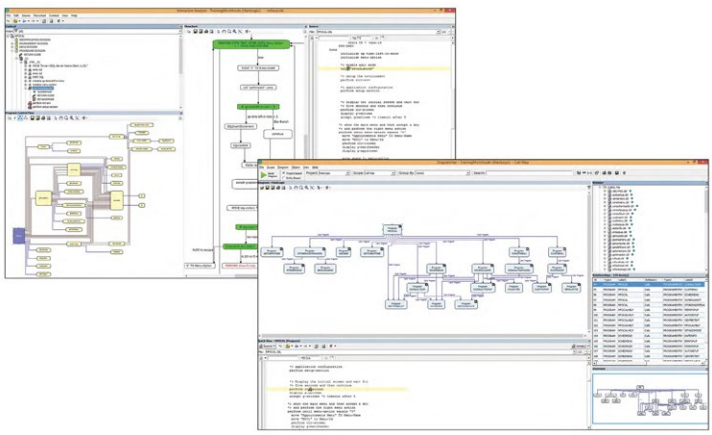

Fig 1. Interactive analysis and application visualization.

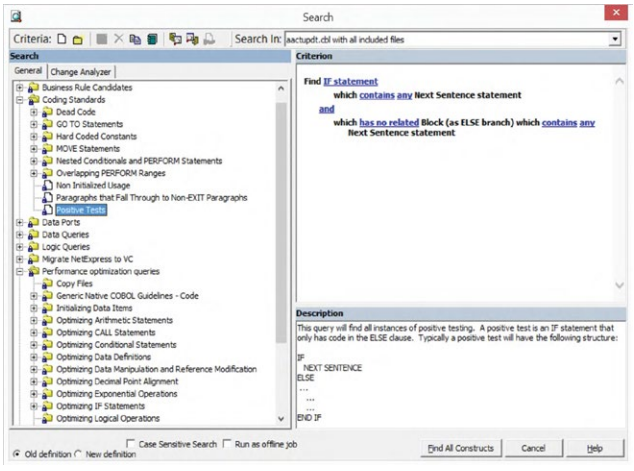

Fig 2. Pre-built query library that can be fully customized.

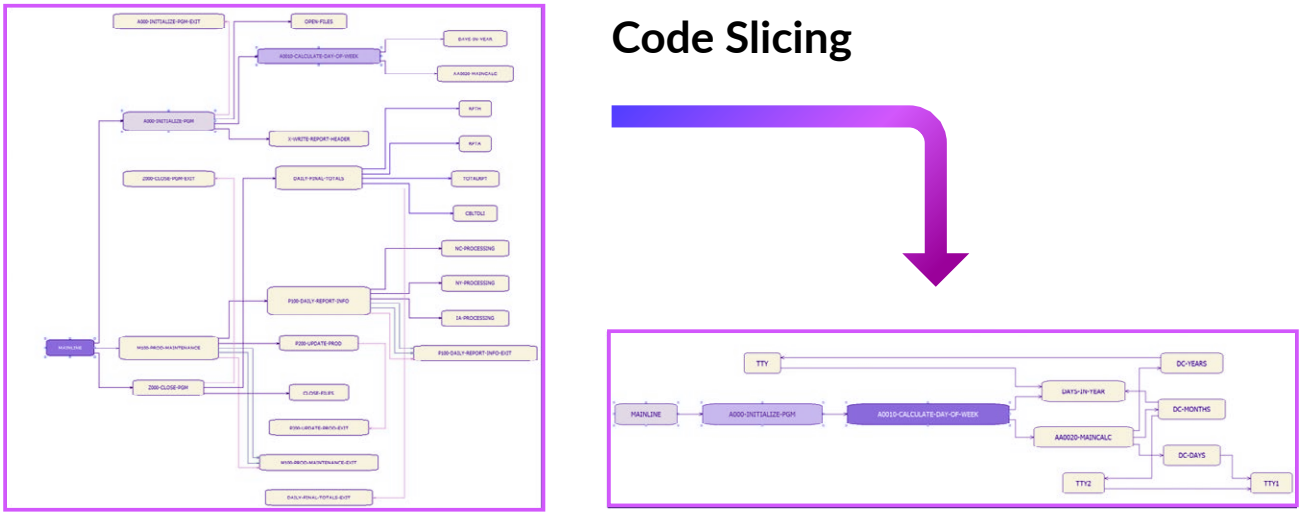

Fig 3. Powerful code slicing capabilities to create reusable components from existing business logic.

01 **Code slicing facility**

Enables developers and architects to create new, reusable components by separating business logic and computations into new callable objects. This allows simplifying programs complexity and exposing the needed logic for testing, documentation and creating new APIs from existing code.

02 **Dead code identification**

Find dead statements and paragraphs, unused data items and similar code across the application. Removal and consolidation of these findings can significantly reduce the size of the application source code.

03 **Analysis REST API and Jenkins Plugin**

A new, standard and easy to use Analysis REST API now available for integration with other tools such as Continuous Integration pipelines. A Jenkins plugin is also available.

04 **Easily accessible application knowledge**

Gain instant access to application knowledge through an intuitive web interface. This powerful web- search style interface is accessible within the available Rocket COBOL Analyzer repository enabling fast roll-out to development teams.

05 **Integrated with development tool chain**

Leverage the built-in integration with Rocket Visual COBOL, plus batch interface, REST API, and a Jenkins plugin for seamless integration with other tools.

06 **Support for COBOL Security Scans powered by Fortify on Demand**

Rocket COBOL Analyzer now allows 1-click creation of a Fortify Static Code Analyzer mobile build session (MBS) on demand package for security scans of COBOL applications.

Key Benefits

Turn any developer into a COBOL expert

With GenAI-powered assistance, developers of any background can easily understand complex COBOL codebases and document applications.

Create customizable reports

Generate reports to manage and monitor modernization projects, coding standards, quality metrics and much more. Rocket COBOL Analyzer offers a highly customizable framework to create reports with the latest information to give you control over your projects.

Accelerate change requests

Designed for complex applications and tailor made for COBOL, this impact analysis tool identifies code changes across the application and eliminates unexpected work.

Reuse business rules

Application architects can easily isolate business logic into reusable components to support new use cases.

Reinstate subject matter expertise

The wide selection of inherent reporting tools identify dead code, visualize call-graphs and dependency diagrams, analyze data flows between programs or create application documentation.

Facilitate knowledge transfer

These tools remove obstacles slowing the pace of knowledge transfer and create new application experts using integrated visualization and documentation tools.

Scale with your Enterprise

Designed to meet the needs of even the largest of codebases, Rocket COBOL Analyzer supports millions of lines of code using its unique scalable architecture.

Platforms

Rocket COBOL Analyzer server and client tools are available on the following 64 bit operating systems:

- Windows 10, 11
- Windows Server 2016, 2019, 2022

Rocket COBOL Analyzer repositories can be created using the following 32/64 bit RDBMS platforms:

- **NEW** PostrgeSQL 13
- Microsoft SQL Server 2012, 2014, 2016, 2017 and 2019
- Out-of-the-box PostgreSQL 16 is also provided as an install option

Rocket COBOL Analyzer web client access requires one of the following browsers:

- Firefox 3.6 or higher
- Internet Explorer 6 or higher
- Chrome 6 or higher

* formerly Micro Focus® products.

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