

Micro Focus Revolve® Enterprise Edition

"We have used Revolve Enterprise Edition on a number of inventory-wide analysis and change projects. It is helping us estimate more accurately and we get projects completed significantly faster. We have reduced the time taken for certain inventory-wide analysis tasks by more than 80 percent."

Shawn Klingensmith
Vice President,
Development Support,
Mellon Financial Corporation

Overview

At a time when technological innovation is taking consumers to higher levels of sophistication, predicting and satisfying the needs of the marketplace is a challenge for all organizations. Success relies on business agility and being able to bring new products to market, faster and in more ways than ever before. IT is under pressure to align core system functionality with the rapidly changing world of business, supporting needs such as:

- Regulatory and compliance changes (e.g., Basel II, HIPAA and Sarbanes-Oxley)
- Ongoing maintenance and troubleshooting
- Integration and extension projects for an 'agile' enterprise (e.g., SOA – Service Oriented Architecture)
- Application modernization, migration and renewal projects

Added to this, existing critical systems are often very large, complex and may not be well understood. Documentation may be out-of-date or missing, and so the only source of precise knowledge about the way business runs is in the IT system itself. Given the inherent risks and costs associated with delivering the above requirements, it is no longer appropriate to use last century's tools or manual methods for assessment and analysis of the workload.

Micro Focus Revolve® Enterprise Edition is an application change solution that provides management tools and improved processes for the planning and execution of any change projects. With Revolve Enterprise Edition, organizations can assess, plan and deliver change in a fast and efficient way, ensuring quality at every stage of the project lifecycle.

Benefits

Reduced Costs

Studies have shown that the cost of maintaining critical applications is a major burden for many businesses, often accounting for up to 70-80 percent of an overall project cost. In addition, the cost of production failure owing to system errors can be catastrophic. By using Revolve Enterprise Edition in the development lifecycle you can:

- Reduce the amount of time required for analysis, allowing more time to be spent on development and testing
- Reduce testing cycles and fewer production outages through improved quality
- Make more informed decisions, create accurate estimates, produce change plans and implement high quality changes in a fraction of the time that it takes using traditional approaches
- Increase organizational efficiency and productivity through the sharing of information and workflow related to application changes
- Reduce mainframe costs

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Increased Agility

The ability to understand your current applications and architecture is a fundamental first step on the path to any improvement program. Whether you need to extend the functionality of existing applications or assess the impact of moving to SOA, Revolve Enterprise Edition can help you:

- Act faster – the application-at-once analysis tools of Revolve Enterprise Edition allow issues to be researched across the entire application in just a few simple steps
- Thoroughly assess the impact of changes within an application before coding efforts start, saving time later in the development cycle
- Be more flexible when assigning resources – new staff can become familiar with an existing system in much less time

Decreased Risk

Making correct decisions about IT that help your business requires solid information. Without it and the support documentation, sub-optimal strategies can be chosen, current business rules are misunderstood and mass change projects can introduce errors. By using Revolve Enterprise Edition throughout your organization you can:

- Modify applications with the confidence that comes from knowing the 'why', 'how', 'what' and 'where' of any change and its impact
- Produce documentation of current systems in minutes, ensuring a solid understanding of current business rules of your organization, limiting the chance of errors

- Produce metrics about size and complexity to help you make the right decisions about the future direction of your business applications
- Ensure a high quality approach with information sharing across all aspects of the development lifecycle

Capabilities

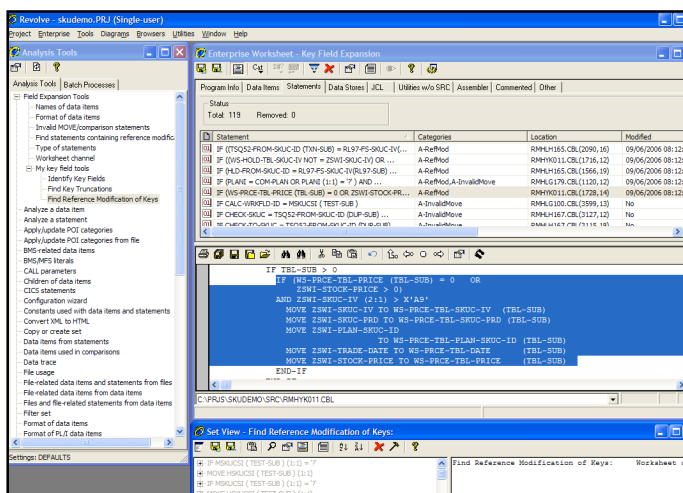
Revolve Enterprise Edition provides powerful capabilities for planning and management of change across the application portfolio.

Inventory Database

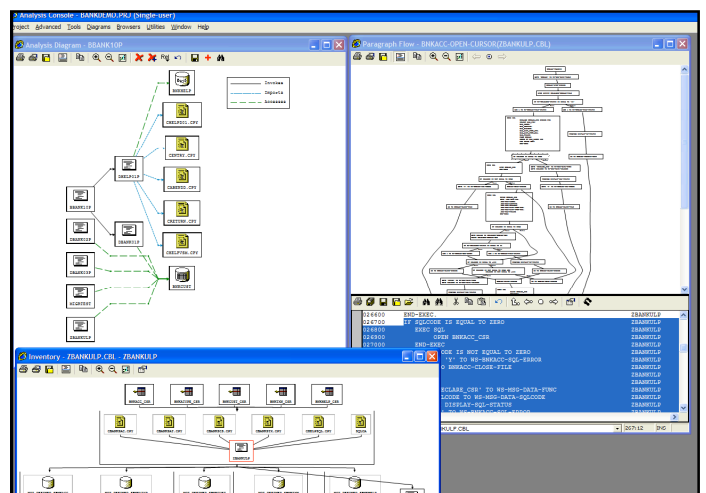
The Revolve Enterprise Edition database provides a comprehensive inventory that understands all application components and how they are related. This database is built using the Automatic Component Locator, which identifies and loads dependent objects, such as copybooks and screens, and iteratively identifies and parses called modules.

Diagrams and Browsers

Developers can display the relationships between application components at any level of detail and explore information about applications including copybooks, program execution control, screens, files and databases, variables, paragraphs and statements. Graphical diagrams of your application can be exported to aid with documentation and promote understanding and communication within the development team.



Detailed analysis reporting across your application portfolio.



Multiple views of the application.

"Because of the accurate management information the solution provides, we recommend to our clients that they should definitely use Revolve as part of any decision making process, whether they are considering updates, migration or extension of their existing systems."

Mark Cooper, Managing Director, MigrationWare

Advanced Analysis Tools

An organized collection of over 55 additional application management and analysis tools allow you to perform virtually any kind of analysis across an entire application in a single step. For example:

Which applications are costing the most to maintain?

Which applications need to be simplified?

What is the overall impact of a mass change applied to the application portfolio?

Definition and Creation of Analysis Processes

As you proceed through a number of steps to identify and categorize the required changes to your application, the steps can be captured and organized. From this, you can create custom analysis tools that can be refined, aggregated and reused across teams for further analysis.

Integration with Development Environments

As you pinpoint the areas of interest or lines of code that potentially need to be changed, the results can be fed directly into other Micro Focus products. Micro Focus Mainframe Express® Enterprise Edition or Net Express® can provide continuity across the entire development lifecycle, allowing analysis results to be applied to the code ready for compilation and testing.

Extensibility Through Third-Party Options

These can provide an open architecture to support other important mainframe subsystems and related technology.

Work Item Organization

To cope with the overwhelming amount of data collected through detailed analysis, categorization tools allow you to organize your required changes according to type, impact and status. Additionally, organizing work items into 'worksheets' provides an audit trail, and allows you to annotate, organize, filter and coordinate work across teams.

"Since Revolve became available our traditional ways to scan look pretty much useless."

Scientific Estimation of Cost and Effort

Costs and effort can be linked to categories of changes. The 'estimation engine' automatically combines this information with analysis results to provide an accurate assessment of the overall cost and effort required for a complete mass change project.

Technical Reporting

Standard reports include cross-reference, record analysis, potential syntax problems, reports on unused code and much more. Teams can also create annotations, adding and sharing critical information about the analysis results.

Application Reporting

System documentation, analysis diagrams, and a wide selection of predefined reports are provided to show application structure, complexity, change impact and other facets of the application makeup.

Worksheet Details					
Name	Key Field Expansion.mdb				
Project	skudemo.prj				
Project directory	C:\prj\SKUDEMO\prj\Enterprise				

Contents		
Data Items	481	
Statements	119	
Total Items	600	

Data Item details (481)					
Name	Location	Definition	UID	POI Type	Categories
WS4-01-XRAD-SKUC	(RLYY1611 CBL 200, 16)	PIC X(04)	33636557	Data Items - COBOL	A-SKUCODE
WS6-01-XRAD-SKUC	(RLYY1611 CBL 247, 20)	PIC X(04)	33636608	Data Items - COBOL	A-SKUCODE
FU-SKCEST-MEDIUM	(RMURMFKF CPY 4, 20)	PIC X(06)	33636743	Data Items - COBOL	A-SKUCODE

Example report output - available in standard formats such as HTML, XML, JPG.

Impact Tracing

Impact analysis capabilities are provided across application programs, variables, screens, files and databases. This enables developers to identify the full impact of a change, reducing the risk of finding errors later in the development cycle, or worse, in production.

Quality Measurement and Analysis

Code quality and complexity can be assessed using models such as McCabe, McClure, Halstead and Function Point Analysis. These metrics and measurements can be used to pinpoint non-compliance of standards and other inefficiencies early on in the development lifecycle.

Technical Specifications

- Windows® XP Professional SP2 or later, Windows Server™ 2003, and Windows 2000 SP4 or later

Language and Subsystems Supported

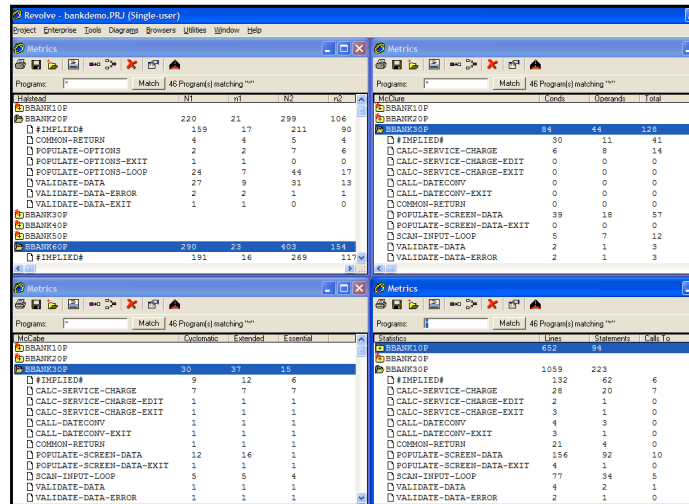
- IBM Enterprise COBOL for z/OS
- IBM COBOL for MVS
- Micro Focus COBOL
- ANSI COBOL 74
- IBM Assembly Language (HLASM)
- CICS Transaction Server
- DB2
- Scheduler Support
 - Tivoli Workload Scheduler (OPC)
 - CA-7
- IBM COBOL for OS/390
- IBM VS COBOL II
- ANSI COBOL 85
- IBM Enterprise PL/I for z/OS
- JCL
- IMS TM/DB

Other Environments

Revolve Enterprise Edition can also provide support for a number of other proprietary or legacy COBOL dialects. For specific details, contact your Micro Focus sales representative.

Micro Focus – Unlocking the Value of Legacy™

Micro Focus is a leading provider of legacy development and deployment software for enterprise platforms. Micro Focus enables organizations to reduce costs and increase agility with minimal risk by reusing their legacy applications with contemporary architectures and Web services. Founded in 1976, Micro Focus is a global company with principal offices in the United Kingdom, United States, Germany and Japan. For more information, visit www.microfocus.com.



Metrics assist in understanding application complexity.

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